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Faculty of **Economic and Management Sciences**

Dean:
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CFA, BEng, MBA (Stell), PhD (Witw)

CALENDAR 2013
PART 10

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General Information

STANDING INVITATION TO PAST STUDENTS

The Registrar cordially invites all past students of Stellenbosch University to notify him in writing or by e-mail (info@sun.ac.za) of any change of address.

The Registrar also welcomes news of distinctions, academic or other, won by our past students, and would appreciate being informed of the titles of any of their publications. The Senior Director: Library and Information Services would be equally happy to receive copies of such publications on behalf of the University Library.

SUMMARY: LANGUAGE POLICY AND PLAN

The official Language Policy and Language Plan of Stellenbosch University were approved by the Council of the University in 2002. The following summary is provided in the interest of brevity, but must be read in conjunction with, and is subject to, the full Language Policy and Plan. The full version is available at http://www.sun.ac.za/taal.

A. Language Policy

1. The University is committed to the use and sustained development of Afrikaans as an academic language in a multilingual context. Language is used at the University in a manner that is directed towards its engagement with knowledge in a diverse society.
2. The University acknowledges the special status of Afrikaans as an academic language and accepts the responsibility to promote it. At the same time, it takes account of the status of English as an international language of communication and of isiXhosa as an emerging academic language.
3. The University distinguishes between the use of the three languages in the following manner:
   - Afrikaans is by default the language of learning and teaching at undergraduate level, while English is used to a greater extent at postgraduate level;
   - isiXhosa is promoted as an emerging academic language. The University creates opportunities for students and staff to acquire communication skills in isiXhosa.
4. The institutional language of the University is, by default, Afrikaans, while English is also used, depending on the circumstances, as an internal language of communication. All three languages are used, where possible, for external communication.

B. Language Plan

1. The Language Plan distinguishes between the implementation of the policy in learning and teaching situations and in the support services and management.
2. Choices between various language options may be made in learning and teaching situations, depending on the language abilities of the lecturer and the composition of the students and programme. These language options are arranged in a hierarchy. Reasons must be provided for deviating from the default option (see point 4 for details).

   In extraordinary and compelling circumstances the University may deviate from the language specification of a module or programme, on condition that any such deviation must be reviewed at the end of each semester to determine whether its continuation remains justified. The deans manage this process, reporting on it to the Executive Committee (Senate). The Language Committee must be informed of any deviation from the language specification of a module or programme and must be given the opportunity to enquire about such deviation, where necessary.

3. Three general guidelines apply with regard to the language of learning and teaching in class:
   - Modules in which a language is taught are conducted mainly in the language in question (e.g. isiXhosa is taught mainly in isiXhosa, Mandarin in Mandarin) and tasks, tests and examinations are set and answered accordingly.
   - Questions papers in all other modules are set in Afrikaans and English and students may answer in Afrikaans or English.

Except in cases where the aim of the module is language acquisition or the study of the language, students may ask questions and expect answers in Afrikaans or English.

4. Departments choose and implement the various language specifications as follows (the above three points apply generally for all options):

A Specification*

Rationale
The A specification applies as the default mode for all undergraduate modules. No reasons need to be given for exercising this option.

Characteristics
- Teaching is mainly in Afrikaans
- Study material such as textbooks, notes, transparencies, electronic learning and teaching material may be in Afrikaans and/or English
- Study framework is in Afrikaans and English.

T Specification (bilingual classes)*

Rationale
Is used for classes where
- students' language competence requires greater use of English
- a programme offered is unique to the University
- multilingualism is important in the context of a specific occupation
- the lecturer does not yet have an adequate command of Afrikaans.

Characteristics
- Teaching is in Afrikaans for at least 50% of the time.
- Textbooks and reading matter are in Afrikaans and/or English.
- Study notes, transparencies and electronic learning and teaching material are fully in Afrikaans and English, or alternately in Afrikaans and English.

E Specification (English as the main medium of instruction)

Rationale
Is used only in highly exceptional circumstances for
- programmes unique in South Africa
- programmes in which students do not have adequate language skills (foreign or English-speaking students)
- modules in which the lecturer does not have a command of Afrikaans
- regional co-operation and strategic aims that necessitate English.

Characteristics
- Teaching is primarily in English.
- Textbooks and reading matter are in Afrikaans and/or English.
- Notes are in English with core notes in Afrikaans.
- Transparencies and electronic learning and teaching material are in English.

A & E Specification (separate 'streams' in Afrikaans and English)

Rationale

Used only in exceptional circumstances when academically and financially justified and attainable for

- modules with large numbers of students
- regional co-operation and attaining strategic goals
- programmes offered by satellite technology or interactive telematic education.

Characteristics

- The characteristics of the A and E options apply respectively here.
- *For both of these options an academic language competence in Afrikaans and English is essential for successful study.

5. Afrikaans is the default language of communication for support services and management. All official documents of the University are available in Afrikaans. 'Default' does not mean 'exclusively', however: important policy documents are available in English and communication with staff is also conducted in English. Guidelines are provided for the language to be used at meetings. Documents relating to the service conditions for staff are available in Afrikaans, English and isiXhosa.
6. Written communication with students is conducted in Afrikaans and English, and recruitment is conducted, where possible, also in isiXhosa. Oral communication is conducted in Afrikaans or English, according to the language of preference of the student.
7. The corporate image of the University reflects the Language Policy and Plan.
8. A Language Committee is appointed by the Council to implement the Language Policy and Plan.
9. The Language Centre assumes the responsibility for the provision and/or the co-ordination of the relevant language support required for the effective implementation of the Language Policy and Plan.

CODE OF CONDUCT FOR LANGUAGE IN THE CLASSROOM

This Code of Conduct has been drawn up in order to provide practical guidelines for understanding and implementing the Language Policy and Language Plan of SU, which were already accepted by the University Council in 2002. The Council regards it as important that the Language Policy and Plan of SU should be implemented with integrity. The Code is offered as an aid for dealing constructively with possible difficulties or uncertainties. The core principle governing the day-to-day use of language on the campus is that all staff, students and clients of the University are responsible for language matters and may have the expectation that disputes will be approached and dealt with in a spirit of co-operation in which workable solutions are sought.

A distinction is drawn in the Code of Conduct between the responsibilities and expectations of staff and of students. Complaints on language matters of an academic nature will be dealt with in accordance with standard procedures.

The Language Policy and Plan sets the minimum language requirements for students studying at Stellenbosch University (Language Plan 2002:5):

As a general rule, students taking an A module or a T module require an academic language proficiency in both Afrikaans and English for effective study at the undergraduate level. A higher level of academic language proficiency is required for postgraduate study. Lecturers, especially with regard to their obligations to set and assess assignments, tests and question papers in English and Afrikaans, will be expected within a reasonable time from their appointment to develop sufficient receptive skills (listening and reading) in Afrikaans and

English to be able to follow discussions in class, to set assignments and question papers in both languages and to be able to understand students' answers in both languages. They should also be capable of judging the equivalence of translations and of fairly assessing answers in Afrikaans and English.

Lecturers' Responsibilities

Lecturers bear the responsibility of:

1. implementing the language specifications of the module being taught in accordance with the requirements of the Language Plan (see especially paragraph 3 of the Language Plan).
2. revising and adjusting the language specifications where necessary and according to the circumstances (new text books, other lecturers).
3. informing students briefly at the beginning of the teaching of the module, orally and in the module framework, of the choices and alternative for which the language specifications make provision.
4. ensuring that questions in assignments, tests and examinations have exactly the same content in English and Afrikaans.
5. developing sufficient language proficiency to be able to mark assignments, tests and examinations in Afrikaans and English, or making other satisfactory arrangements that it takes place.
6. ensuring that, in accordance with the guidelines for the T option (see 3.3.1.2 of the Language Plan), students' language proficiency is sufficiently developed, and the necessary measures are in place to ensure subject-specific language proficiency in Afrikaans and English.
7. striving at all times to act courteously and accommodatingly in situations involving language use (e.g. when questions are asked in English in a class where the language specification for the module is A).

Lecturers' Expectations

Lecturers can expect students to:

1. take note of the characteristics of the language specification applicable to the specification laid down for the module. (See paragraph 3, Language Plan).
2. inform the lecturer of their needs with regard to academic language skills.
3. respect the spirit of the Language Policy and Plan, especially with regard to the development of skills in a language which is not their language of choice, by deliberately paying attention to it, taking part actively in class and working on their knowledge of subject terminology and subject discourse in both languages. This expectation applies especially to the T specification for modules.

Students' Responsibilities

Students bear the responsibility of:

1. ascertaining the language options for each module and noting especially the consequences, e.g. that translations will not be available in some instances.
2. being honest and open-hearted about their language skills and taking the responsibility for early and appropriate action if they should experience difficulties.
3. deliberately developing the receptive skills (listening and reading) in the language not of choice for learning and teaching by active participation in class.
4. buying and using the prescribed material (especially text books) to improve their language skills in the subject.
5. being courteous and accommodating, and acting accordingly, in situations where language use is at issue, e.g. with regard to the difficulties of the minority group in the class.

6. accepting that one or a few students, because of inadequacies in his/their language proficiency, may not exercise or try to exercise a right of veto with regard to the use of Afrikaans or English in the class situation.

Students' Expectations

Students can expect that:

1. help with language skills development will be provided should their academic language proficiency in Afrikaans and/or English be inadequate.
2. they can ask questions and conduct discussions in Afrikaans or English (unless the other languages are required, as in language modules), taking into account their own and the lecturer's language proficiency.
3. Afrikaans and English versions of assignments and question papers will be available and will have the same content.
4. there will be a sensitivity for language difficulties, so that language errors made under examination conditions will be assessed with discretion.

NON-RACISM

Stellenbosch University admits students of any race, colour, nationality or ethnic origin to all rights, privileges, programmes and activities generally accorded or made available to students of the University. The University does not discriminate on the basis of race, colour, nationality or ethnic origin in the implementation of its educational policies, its scholarship and loan programmes, or its sport programmes.

PLEASE NOTE

1. In this publication any expression signifying one of the genders includes the other gender equally, unless inconsistent with the context.
2. Before making a final choice of modules (subjects), every student should closely consult the relevant timetables. Should it then become apparent that two modules fall in the same time slot on a particular timetable, the University will not allow registration as a student in both of them for the same year/semester since they will be an inadmissible combination.
3. The University reserves the right to amend the Calendar at any time. The Council and Senate of the University accept no liability for any inaccuracies there may be in the Calendar. Every reasonable care has been taken, however, to ensure that the relevant information to hand as at the time of going to press is given fully and accurately in the Calendar.
4. In the event of uncertainty or a dispute regarding information in Part 10 of the Calendar, the final interpretation will be based on the Afrikaans version.
5. Parts 1, 2 and 3 of the Calendar contain general information applicable to all students. Students are urged to note with special care the content of the Provisions relating to Examinations and Promotions in the "University Examinations" chapter of Part 1 of the Calendar.

CALENDAR CLASSIFICATION

The University Calendar is divided into the following parts:

General	Part 1
Bursaries and Loans	Part 2
Student Fees	Part 3
Arts and Social Sciences	Part 4
Science	Part 5
Education	Part 6
AgriSciences	Part 7
Law	Part 8
Theology	Part 9
Economic and Management Sciences	Part 10
Engineering	Part 11
Medicine and Health Sciences	Part 12
Military Science	Part 13

Afrikaans (Part 1 - 12) or English copies of the individual parts may be obtained from the Registrar on request.

COMMUNICATION WITH THE UNIVERSITY

Student Number

In dealing with new formal applications for admission, the University assigns a student number to each applicant. This number serves as the unique identification of the person concerned. However, the mere assignment of a student number does not imply that the applicant has been accepted for the proposed programme of study. You will be advised whether or not you have been accepted in a separate letter.

Once you have been informed of your student number you must please quote it in all future correspondence with the University.

Addresses at the Central Administration

Correspondence on academic matters – i.e. study-related matters, bursaries and loans, etc., as well as residence placements – should be directed to:

The Registrar
Stellenbosch University
Private Bag X1
MATIELAND
7602
E-mail: info@sun.ac.za

Correspondence on matters relating to finance and services, including services at University residences, should be directed to:

The Executive Director: Operations and Finance
Stellenbosch University
Private Bag X1
MATIELAND
7602

Other official addresses

The Dean

Faculty of Economic and Management Sciences
Stellenbosch University
Private Bag X1
Matieland
7602

School of Public Leadership
PO Box 610
BELLVILLE
7535

Graduate School of Business
PO Box 610
BELLVILLE
7535

University's website: www.sun.ac.za

Faculty's website: www.sun.ac.za/ems

Electronic communication: info@sun.ac.za

General information about Programmes, Subjects and Modules

1. DEGREE PROGRAMMES

B degrees	BHons degrees	M degrees	D degrees
BComm	BCommHons	MComm	PhD
BComm (Actuarial Science)	BCommHons	MComm	PhD
BComm (Economic Sciences)	BCommHons	MComm	PhD
BComm (Financial Accounting)	BCommHons	MComm	PhD
BComm (Management Accounting)	BCommHons	MComm	PhD
BComm (Management Sciences)	BCommHons	MComm	PhD
BComm (Mathematical Sciences)	BCommHons	MComm	PhD
BComm (Industrial Psychology)	BCommHons	MComm	PhD
BComm (Law)	BCommHons	MComm	PhD
BAcc	BAccHons	MAcc	PhD
BAccLLB	BAccHons	LLM or MAcc	LLD or PhD
		MPhil	PhD
		MBA	PhD
	BPubAdminHons	MPA	PhD

2. DIPLOMAS

Postgraduate Diploma in Actuarial Science
Postgraduate Diploma in Dispute Settlement
Postgraduate Diploma in Environment Management
Postgraduate Diploma in Financial Planning
Postgraduate Diploma in Future Studies
Postgraduate Diploma in HIV/Aids Management
Postgraduate Diploma in Leadership
Postgraduate Diploma in Marketing
Postgraduate Diploma in Project Management
Postgraduate Diploma in Sustainable Development

3. ADDITIONAL INFORMATION

3.1 The BComm, BAcc, BAccLLB, BCommHons, BAccHons, MPhil programmes (excluding the MPhil (Sustainable Development Planning and Management) are presented only in Stellenbosch. The Master of Development Finance, MBA, BPAHons and MPA are only presented in Bellville.

3.2 All full-time students are strongly advised to gain practical experience at businesses and government institutions during vacations.

3.3 Undergraduate enrolment management

In order to meet the targets of Council with regard to the *size* (the total number of students) and *shape* (fields of study and diversity profile) of the student body of Stellenbosch University (SU), it is necessary to manage the undergraduate enrolments at SU.

SU's total number of enrolments is managed to be accommodated by its available capacity.

SU offers a balanced package of programmes covering all of three main study areas, namely (a) the humanities, (b) the economic and management sciences, and (c) the natural sciences, agricultural sciences, health sciences and engineering (Science, Engineering and Technology or SET).

Undergraduate enrolment management at SU adheres to the framework of the national higher-education system. A well grounded cohesion between national and institutional goals, respecting important principles such as institutional autonomy, academic freedom and public responsibility, is pursued. The following points of departure apply:

- The expansion of academic excellence by maintaining high academic standards.
- The maintenance and improvement of high success rates.
- The fulfilment of SU's commitment to redress, to social responsibility and to contributing towards the training of future role models from all population groups.
- The expansion of access to higher education especially for students from educationally disadvantaged and economically needy backgrounds who possess the academic potential to study at SU with success.

Due to the limited availability of places and the strategic and purposeful management of enrolments, not all undergraduate applicants who meet the minimum requirements of a particular programme will automatically gain admission.

Details about the selection procedures and admission requirements for undergraduate programmes are available at www.maties.com.

All undergraduate prospective students with the 2013 intake and beyond in mind must write the National Benchmark Test (NBT). Consult the NBT website (www.nbt.ac.za) or the SU website (www.maties.com) for more information on the National Benchmark Test.

The results of the National Benchmark Tests may be used by SU for the following purposes (details are available at www.maties.com):

- supporting decision making about the placement of students in extended degree programmes,
- selection, and
- curriculum development.

4. EXTENDED DEGREE PROGRAMMES

4.1 From 2008, students who do not meet the admission requirements of the three-year BComm degree programme can through selection be admitted to the extended BComm degree programme where various additional study aids form an integrated part of the programme. Only a limited number of students will be admitted to the extended degree programme and preference will be given to students from previously disadvantaged communities.

4.2 The duration of the extended BComm Management Science degree programme is only one year longer than the three-year mainstream programme. Students who complete the extended degree programme receive the same degree certificate from the University as those who complete the mainstream programme.

5. 2013 – ADMISSION REQUIREMENTS FOR BACHELOR'S DEGREES

Faculty of Economic and Management Sciences
Programme-specific MINIMUM Admission Requirements for 2013 Intake

BComm, BComm(Industrial Psychology), BComm (Economic Sciences), BComm (Financial Accounting), BComm (Management Accounting) – NSC Mathematics passed with at least a 5 (60%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Minimum EMS Admission Requirements	**BComm (Mathematical Sciences)** – NSC Mathematics passed with at least a 6 (70%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Minimum EMS Admission Requirements
BComm (Management Sciences) – NSC Mathematics passed with at least a 5 (60%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Afrikaans Home Language 4 (50%) **or** English Home Language 4 (50%) **or** Afrikaans First Additional Language 5 (60%) **or** English First Additional Language 5 (60%)	**BComm (Management Sciences) (Extended Degree Programme) (EDP)** – NSC Mathematics passed with at least a 4 (50%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Afrikaans Home Language 4 (50%) or English Home Language 4 (50%) or Afrikaans First Additional Language 5 (60%) or English First Additional Language 5 (60%)
BComm (Actuarial Science) – NSC Mathematics passed with at least a 7 (80%) – Overall NSC average of at least a 6 (70%) excluding Life Orientation – Minimum EMS Admission Requirements – Afrikaans Home Language 5 (60%) **or** English Home Language 5 (60%)	**BAcc** – NSC Mathematics passed with at least a 5 (60%) – NSC Accounting passed with at least a 6 (70%) or Mathematics passed with at least a 6 (70%) – Overall NSC average of at least a 6 (70%) excluding Life Orientation – Minimum EMS Admission Requirements
BComm (Law) – NSC Mathematics passed with at least a 5 (60%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Minimum EMS Admission Requirements	**BAcc LLB** – NSC Mathematics passed with at least a 6 (70%) – Overall NSC average of at least a 5 (60%) excluding Life Orientation – Minimum EMS Admission Requirements

Minimum EMS Admission Requirements*

Afrikaans Home Language 4 (50%) OR Afrikaans First Additional Language 5 (60%)
AND
English Home Language 4 (50%) **OR** English First Additional Language 5 (60%)

Language of instruction

The first year of the Faculty's undergraduate programmes is offered in English and in Afrikaans (A&E specification). The following years of the programmes, except the BComm (Management Sciences) programme, are taught in Afrikaans only. For this reason we set requirements for English *and* Afrikaans in these programmes, which we call the EMS language admission requirements. The students who register for the BComm

(Management Sciences) programme can choose to attend classes either in English or in Afrikaans right up to their final year of study.

Prospective students without Afrikaans at matric level

Students who did not present Afrikaans as a subject at matric level, but are sufficiently skilled in Afrikaans to study modules which are presented according to the Afrikaans language option, can apply for special admission to programmes where Afrikaans is required at matric level. These students must communicate with the Faculty Secretary to obtain information on the battery of tests to ascertain their language proficiency in Afrikaans. If their language proficiency in Afrikaans, according to these tests, proves to be sufficient, they will be exempted from the specified language requirements and be admitted to the applicable programme. If not, students are strongly encouraged to consider the parallel medium degree programme, BComm (Management Sciences).

Language Modules

Language development modules will be offered as selection modules within the BComm programme. This will be reconsidered for 2014 and thereafter, depending on the number and profile of students accommodated in these modules.

6. EXAMINATIONS

Particulars with regard to university examinations are provided in Part 1 of the Calendar. Students must take note of the provisions relating to examinations and promotions as set out in Part 1. With regard to the allocation of the final mark, the Economic and Management Sciences Faculty Board has decided as follows: "Upon the allocation of a final mark (0-100) for a module that is not subject to continuous assessment, the class mark, based on assessment done during the term of such module, and the examination mark which shall represent the student's performance in the final examination, must be taken into account, with the understanding that –

6.1 if the examination mark is 50 or higher, the final mark shall not be less than 50;

6.2 the class and examination mark be combined in the ratio 50 to 50 to determine the final mark in the case of a year module and in the case of an extended module and 40 to 60 for a semester module."

The conditions upon which examination scripts are re-evaluated or re-calculated, are also outlined in Part 1 of the Calendar.

Please note

Details with regard to modules that are subject to continuous assessment are also provided in Part 1 of the Calendar.

7. TIMETABLE CLASHES

7.1 Before making a final choice of modules (subjects) for a specific academic year, every student should closely consult the relevant class, test and examination timetables. Should it then become apparent that two modules fall in the same time slot on a particular timetable, the University will not allow registration as a student in both of them for the same year/semester since they will be an inadmissible combination.

7.2 Alternative arrangements to accommodate students who experience clashes on the examination timetable will only be considered in cases where no alternative assessment opportunity exists. In this case students may take the option to write the second examination opportunity for the modules concerned. Arrangements must be made with the Examination Office beforehand.

8. DEAN'S CONCESSION EXAMINATIONS (DCES)

8.1 A Dean's Concession Examination may only be granted with the approval of the Dean. No department, lecturer or any other official may give an undertaking to a student in this regard.

8.2 A Dean's Concession Examination may be granted in a module if it is the only module (of not more than 48 credits) that the student needs to graduate and only if a class mark of at least 30% was obtained in the relevant module.

8.3 All DCEs will be held during a single examination sitting on the last Friday before the commencement of lectures in February and no further examination papers will be set for this purpose.

8.4 Students who, according to paragraph 8.2 above, qualify for a DCE, must in good time, but not later than 12 January, report to the Secretary of the Faculty of Economic and Management Sciences for possible admission to a DCE and to confirm the date, time and venue of the examination.

9. UNISA REGISTRATION FOR NON-DEGREE PURPOSES

Students have to be registered for the specific academic year at Stellenbosch University for degree purposes. Simultaneous registration of modules at another University in order to obtain the same qualification is not allowed. Registration at different universities for more than one qualification is not allowed either. Registration of third year modules for non-degree purposes at Unisa is only allowed if the module was failed at Stellenbosch University (achieved exam entry of at least 40, but module was failed.)

Final-year students may register for one single third-year (final-year) module at Unisa if the specific module and/or content has been approved and authorised by the relevant department within the faculty and is recognised by the University.

10. APPLICATION PROCEDURES / SELECTION PRINCIPLES

To begin with, selection is done to limit the **new first-year** student intake at faculty level to 1 300 per year. Selection of new students is focused on the total faculty intake and does not take numbers per programme into account. Programme selection is done for three undergraduate programmes only: BAccLLB, BComm (Law) and the extended degree programme (EDP) BComm (Management Sciences).

In order to meet the target for new student intake, the principle of overbooking is applied to make allowance for the fact that not all students who apply and are provisionally accepted can actually enrol in the EMS Faculty.

Provisional selection

Closing date for all prospective applications is 30 June.
Selection is based on academic merit.

Be advised that the following groups of applicants will NOT be granted immediate entry:

- Prospective students from South African schools who did not/do not follow the NSC learning programme;
- International students (students from non-South African schools);
- Prospective students with a selection mark (SM) of less than 70;
- Prospective students who apply for the selection programmes (namely BAccLLB, BComm (Law) and BComm (Management Sciences) EDP).

ACE School of Tomorrow prospective applicants

- Utilise National Benchmark Tests (NBTs) with the following criteria to determine provisional admission to BComm degree programmes:
- Intermediate Academic Literacy: at least 64, but no less than 42;

- Intermediate Numeracy: at least 65, but no less than 38;
- Intermediate Mathematics: at least 61, but no less than 34.

Student selection is based on provisional students' final Grade 11 or NSC school results. National Benchmark Test (NBT) results are not used for selection purposes. If applicable, the NBT results will be applied with regard to placement decisions in the EDP programme.

Prospective students have to meet the minimum programme-specific admission requirements (see table exposition). Their applications are then submitted to faculty for selection purely on academic merit by means of a selection mark (SM) which is calculated for each individual student.

The SM (Selection Mark)is calculated according to the following:

$$\frac{\text{2 X Mathematics mark + 5 other subjects' marks (excluding Life Orientation)}}{7}$$

It is important to note that the exact mark is used. In instances where students present more than six school subjects, the five highest marks are used for the marks of the "other" subjects. For students who offer only three subjects, apart from Maths, the calculation formula is:

$$\frac{\text{(2 x Maths mark+ marks of 3 other subjects)}}{5}$$

The process with regard to selection and entry for international students is no different than for any other students.

The Registration Process

It is required that selected students should meet the entry requirements of the programme for which they may enrol on the basis of their final NSC results (or an equivalent thereof). The selection mark does not apply for any process during final enrolment – only the final matric marks and access test marks are considered, where applicable.

During registration students who have been successful in the selection process at faculty level may enrol for any programme in the faculty, provided they meet the minimum requirements of the programme on the basis of their final matric marks. This ruling does not apply to BAccLLB and BComm (Law) programmes – special permission has to be obtained from the Faculty of Law.

Students who were granted provisional entry to other SU faculties, but not to EMS, have to obtain approval from the Dean to be allowed entry within the EMS Faculty. The Dean will accept such students provided there are still places available in the faculty. This implies that students will be placed on a waiting list and that the Dean's decision can be expected only 24 hours after the official last day of first-year enrolments. Students will be granted entry on merit in accordance with the faculty's selection mark procedure.

Programme Offering

BACHELOR'S PROGRAMMES

1. PROGRAMMES OFFERED

Refer to paragraphs 1 and 2 under "General Information about Programmes, Subjects and Modules" above for programmes offered by the Faculty of Economic and Management Sciences.

2. CREDIT REQUIREMENTS OF PROGRAMMES

See the next chapter, Undergraduate Programmes, for a description of the programmes mentioned below.

Minimum credits required

Degree	1st year	2nd year	3rd year	Total credits for degree
BComm	120	128	120	368
BComm (Actuarial Science)	144	136	144	424
BComm (Economic Sciences)	120	128	120	368
BComm (Financial Accounting)	120	128	144	392
BComm (Management Accounting)	120	128	144	392
BComm (Management Sciences)	120	128	120	368
BComm (Mathematical Sciences)	128	128	120	376
BComm (Law)	150	152	130	432
BComm (Industrial Psychology)	138	136	144	406
BAcc	138	152	156	446

The following credits apply to the BAccLLB:
1st year: 168; 2nd year: 170; 3rd year: 168; 4th year: 164; 5th year: 164, i.e. a total of 834 credits.

Please note:
Only the minimum required number of credits is given above. The actual number of credits required for degree purposes will be determined by the particular subject combination and the accompanying prerequisite, co-requisite and prerequisite pass module prescriptions.

3. MAJOR SUBJECT REQUIREMENTS

A major subject is a combination of third-year modules with a total credit value of at least 48, except in the case of Actuarial Science, Computer Science, Operations Research, Mathematical Statistics and Mathematics, where the minimum total credit value is 64. A student passes a major if all the modules of the third year and previous year/s (if any) of the subject have been passed.

4. EXTRA SUBJECTS

There are restrictions on the taking of extra subjects (for non-degree purposes). See University Examinations (General Provisions) in Part 1 (General) of the Calendar.

5. PREREQUISITE, COREQUISITE AND PREREQUISITE PASS REQUIREMENTS

A prerequisite module (P) is a module in which students must have achieved a class mark of at least 40, or a final mark of at least 40 in the case of a module that is subject to continuous assessment, before they are allowed to take the module for which it is a prerequisite module.

A corequisite module (C) is a module which students must take in the same academic year as the module for which it is a corequisite, or in an earlier academic year.

A prerequisite pass module (PP) is a module which students must have passed before they are allowed to take the module(s) for which it is a prerequisite pass module.

No qualification will be awarded unless the candidate has passed all the relevant prerequisite and corequisite modules.

Please note:
If (with or without permission) a student enrols for a specific module in any academic year but does not meet the co-, pre- and/or pass-prerequisite/s for the module, it does not necessarily follow that this will be allowed again in a next academic year.

The following prerequisite, corequisite and prerequisite pass module provisions, with regard to the relevant subjects with which they are listed, are applicable:

DEPARTMENT OF ACCOUNTING

Auditing 288	P Financial Accounting 178 or 188
Auditing 378	P Auditing 288 C Financial Accounting 278 or 288
Auditing 388	P Financial Accounting 178 or 188
Financial Accounting 278	PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.)
Financial Accounting 288	PP Financial Accounting 178 or 188
Financial Accounting 379	PP Financial Accounting 278
Financial Accounting 389	PP Financial Accounting 278 or 288
Information Systems 152	C Information Systems 112 or 188 or C Computer skills 172 C Financial Accounting 178 or 188
Information Systems 284	P Financial Accounting 178 or 188 P Information Systems 188
Information Systems 312	C Financial Accounting 278 P Auditing 288
Management Accounting 278	PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.) C Financial Accounting 278 or 288
Management Accounting 288	PP Financial Accounting 188 or P Financial Accounting 178
Management Accounting 378	PP Financial Accounting 278 P Management Accounting 278
Management accounting 388	PP Financial Accounting 278 or 288 P Management Accounting 278 or 288

Taxation 298	PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.) C Financial Accounting 278
Taxation 388	S Financial Accounting 178 or 188
Taxation 399	PP Financial Accounting 278 or Law of Taxation 411 and 441 (In the latter case a Taxation bridging programme presented by the Department of Accounting must be followed with Law of Taxation 411 and 441 and the internal Tax test required by the Department must be completed successfully.) P Taxation 298 (This is not a prerequisite in the case of BAccLLB.)

DEPARTMENT OF AFRICAN LANGUAGES

Basic Xhosa 144	P Basic Xhosa 114
Xhosa 214	PP Xhosa 178
Xhosa 244	PP Xhosa 214
Xhosa 224	PP Xhosa 188
Xhosa 254	P Xhosa 224
Xhosa 318	P Xhosa 214, 244

DEPARTMENT OF AGRICULTURAL ECONOMICS

Agricultural Economics 414	P Biometry 212 P Statistics 186 or P Statistical Methods 176
Agricultural Economics 444	P Economics 144, 144 or 178
Agricultural Economics 242	P Economics 114 or Economics 178 C Agricultural Economics 234
Agricultural Economics 314	P Agricultural Economics 242
Agricultural Economics 364	P Agricultural Economics 242

DEPARTMENT OF BUSINESS MANAGEMENT

Entrepreneurship and Innovation Management 244	P Entrepreneurship and Innovation Management 214
Entrepreneurship and Innovation Management 318	P Entrepreneurship and Innovation Management 214 or 244
Entrepreneurship and Innovation Management 348	P Entrepreneurship and Innovation Management 214 or 244
Financial Management 214	C Business Management 142 or Mathematics 114 or Mathematics (Bio) 124
Financial Management 244	P Financial Management 214
Financial Management 314	C Financial Management 214
Financial Management 344	C Financial Management 214
Financial Management 354	C Financial Management 214

Financial Planning 214	P Business Management 142 P Theory of Interest 152 P Statistical Methods 176 or P Statistics 186 or P Probability Theory and Statistics 114 or 144
Financial Planning 378	PP Financial Planning 214 C Investment Management 254 C Economics 214, 244 C Financial Accounting 288 C Mercantile Law (Commerce) 283
Investment Management 254	P Business Management 142 P Statistical Methods 176 or P Statistics 186 or P Probability Theory and Statistics 114 or 144
Investment Management 314	P Investment Management 254
Investment Management 324	P Investment Management 254
Investment Management 348	C Financial Management 214 or C Financial Accounting 178 or 188
Investment Management 354	C Investment Management 254
Investment management 344	P Investment Management 254
Management of Corporate Social Responsibility 314	P Business Management 113
Marketing Management 214	C Financial Management 214 or C Financial Accounting 278 or 288 or C Biometry 212
Marketing Management 244	P Marketing Management 214
Marketing Management 314	P Marketing Management 214
Marketing Management 324	P Marketing Management 214
Marketing Management 344	P Marketing Management 214, 244 P Probability Theory and Statistics 144 or P Statistical Methods 176 or P Statistics 186
Marketing Management 354	P Marketing Management 214, 244
Strategic Management 344	C Business Management 113 **Not applicable for students in Forest Science

DEPARTMENT OF COMPUTER SCIENCE

Computer Science 114	C Mathematics 114
Computer Science 144	P Computer Science 114
Computer Science 214	PP Computer Science 144 P Mathematics 114, 144
Computer Science 314	P Computer Science 214, 244 For programmes in Engineering: P Computer Science E 214 P Computer Systems 245
Computer Science 324	P Computer Science 214
Computer Science 344	P Computer Science 214, 244 For programmes in Engineering: P Computer Science E 214 P Computer Systems 245

Computer Science 354	P Computer Science 214, 244 For programmes in Engineering: P Computer Science E 214 P Computer Systems 245
Computer science 244	C Computer Science 214
Computer science 334	P Computer Science 214, 244 For programmes in Engineering: P Computer Science E 214 P Computer Systems 245

DEPARTMENT OF ECONOMICS

Economics 144	C Economics 114
Economics 214	PP Economics 114, 144
Economics 244	PP Economics 114, 144 C Economics 214
Economics 281	PP Economics 114, 144 or 288
Economics 318	PP Economics 214 P Economics 244
Economics 348	PP Economics 214 P Economics 244 C Economics 318
Economics 388	PP Economics 214 P Economics 244 C Economics 318
Economics 381	P Economics 214, 244 or 281

DEPARTMENT OF ENGLISH

English Studies 278	PP English Studies 178
English Studies 318	PP English Studies 278
English Studies 348	PP English Studies 278

DEPARTMENT OF GEOGRAPHY AND ENVIROMENT STUDY

Geography and Environmental Studies 225	P Geo Environmental Science 124
Geography and Environmental Studies 265	P Geo Environmental Science 124
Geography and Environmental Studies 314	P Geography and Environmental Studies 265 (from 2014)
Geography and Environmental Studies 323	P Geography and Environmental Studies 265 (from 2014)
Geography and Environmental Studies 358	P Geography and Environmental Studies 265 (from 2014)
Geography and Environmental Studies 363	P Geo Environmental Science 124

DEPARTMENT OF INDUSTRIAL PSYCHOLOGY

Consumer Psychology: External 721	PP Industrial Psychology 224
Consumer Psychology: Internal 751	PP Industrial Psychology 224
Industrial Psychology 314	C Industrial Psychology 244

Industrial Psychology 324	C Industrial Psychology 244
Industrial Psychology (Visual Arts) 324	C Industrial Psychology 224

DEPARTMENT OF LOGISTICS

Logistics Management 214	P Business Management 113
Logistics Management 244	PP Business Management 113 PP Logistics Management 214
Logistics Management 318	PP Logistics Management 214, 244 P Economics 114, 144 PP Statistical Methods 176 or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Logistics Management 348	PP Logistics Management 214, 244, 318
Operations Research 214	PP Mathematics 114, 144 (No Quantitative Management modules may be taken in combination with Operations research modules)
Operations Research 244	PP Mathematics 114, 144 (No Quantitative Management modules may be taken in combination with Operations research modules)
Operations Research 314	P Operations Research 214, 244 (No Quantitative Management modules may be taken in combination with Operations research modules)
Operations Research 324	P Operations Research 244 (No Quantitative Management modules may be taken in combination with Operations research modules)
Operations Research 344	P Operations Research 244 (No Quantitative Management modules may be taken in combination with Operations research modules)
Operations Research 354	PP Probability Theory and Statistics 114 or 144 (No Quantitative Management modules may be taken in combination with Operations research modules)
Quantitative Management 214	PP Statistics 186 or PP Probability Theory and Statistics 114 or 144 or PP Statistical Methods 176 with a final mark above 60% (No Quantitative Management modules may be taken in combination with Operations research modules)
Quantitative Management 244	PP Statistics 186 or PP Probability Theory and Statistics 114 or 144 or PP Statistical Methods 176 with a final mark above 60% PP Quantitative Management 214 (No Quantitative Management modules may be taken in combination with Operations research modules)
Quantitative Management 318	PP Quantitative Management 214, 244 PP Theory of Interest 152 (No Quantitative Management modules may be taken in combination with Operations research modules)

Quantitative Management 348	PP Quantitative Management 214, 244 (No Quantitative Management modules may be taken in combination with Operations research modules)
Supply Chain Management 144	P Business Management 113
Transport Economics 214	PP Economics 114, 144
Transport Economics 244	P Transport Economics 214 PP Economics 114, 144
Transport Economics 318	PP Statistical Methods 176 or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144 or PP Mathematics 114, 144 PP Transport Economics 214, 244
Transport Economics 348	PP Statistical Methods 176 or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144 or PP Mathematics 114, 144 PP Transport Economics 214, 244

DEPARTMENT OF MATHEMATICAL SCIENCES

Computer Science 242	PP Computer Science 114, 144

DEPARTMENT OF MATHEMATICAL SCIENCES

Computer Science 252	C Computer Science 214

DEPARTMENT OF MATHEMATICS

Engineering Mathematics 145	P Engineering Mathematics 115
Financial Mathematics 378	PP Mathematics 214, 244 P Mathematical Statistics 214, 244
Mathematics 144	P Mathematics 114
Mathematics 214	PP Mathematics 114, 144
Mathematics 244	P Mathematics 214
Mathematics 314	PP Mathematics 214, 244
Mathematics 324	PP Mathematics 214, 244
Mathematics 344	PP Mathematics 214, 244 or equivalent modules
Mathematics 354	PP Mathematics 214, 244 or equivalent modules
Mathematics 364	PP Mathematics 114, 144
Mathematics 365	PP Mathematics 214, 244
Mathematics for Statistics 214	C Statistics 214

DEPARTMENT OF MERCANTILE LAW

Law of Taxation 411	C Mercantile Law 471
Law of Taxation 441	P Law of Taxation 411
Mercantile Law 311	C Private Law 372
Mercantile Law 312	C Private Law 372
Mercantile Law 471	P Mercantile Law 311 and 312 P Private Law 372
Mercantile Law (Acc) 292	P Mercantile Law (Acc) 193
Mercantile Law (Commerce) 381	Mercantile Law (Commerce) 283 With a final mark of at least 60
Mercantile Law (Commerce) 253	PP Mercantile Law (Acc) 193 or Mercantile Law (Commerce) 284

DEPARTMENT OF MODERN FOREIGN LANGUAGES

French 348	PP French 318
German 288	PP German 188
German 348	PP German 318

DEPARTMENT OF PSYCHOLOGY

Psychology 212	PP Psychology 114
Psychology 222	PP Psychology 114
Psychology 252	PP Psychology 114

SCHOOL OF PUBLIC LEADERSHIP

Public and Development Management 314	PP Public and development management 114, 144, 212, 222, 242, 252
Public and Development Management 324	PP Public and development management 114, 144, 212, 222, 242, 252
Public and Development Management 348	PP Public and development management 114, 144, 212, 222, 242, 252

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

Actuarial Science 142	PP Mathematics 114 with a final mark of at least 60% (calculated based on performance in the first examination opportunity) PP Actuarial Science 112 C Probability Theory and Statistics 144
Actuarial Science 242	PP Mathematics 114 and 144 with an average final mark of at least 60% PP Probability Theory and Statistics 144 with a final mark of at least 65% PP Actuarial Science 112 PP Mathematics 214 PP Mathematical Statistics 214 C Actuarial Science 142, 274
Actuarial Science 274	PP Actuarial Science 112 PP Mathematics 114, 144 (with an average final mark of at least 60%) or Mathematics 214, 244 PP Probability Theory and Statistics 144 (with a final mark of at least 65%) or Mathematical Statistics 214, 244 C Mathematics 214, 244 C Mathematical Statistics 214, 244
Actuarial Science 326	PP Actuarial Science 112, 142, 242, 274 PP Mathematical Statistics 214, 244 PP Mathematics 214, 244 C Mathematical Statistics 318
Actuarial Science 346	PP Actuarial Science 112, 142, 242, 274 PP Mathematical Statistics 214, 244 PP Mathematics 214, 244 C Mathematical Statistics 318, 364

Actuarial Science 388	PP Actuarial Science 112, 142, 242, 274 PP Mathematical Statistics 214, 244 PP Mathematics 214, 244 C Mathematical Statistics 318, 344, 364
Engineering Statistics 314	PP Engineering Mathematics 115, 145
Financial Risk Management 212	PP Mathematics 114, 144 PP Probability Theory and Statistics 144 PP Theory of Interest 152 or PP Actuarial Science 112 C Actuarial Science 274 C Mathematical Statistics 214, 244
Financial Risk Management 242	PP Mathematics 114, 144 PP Probability Theory and Statistics 144 PP Theory of Interest 152 or PP Actuarial Science 112 P Financial Risk Management 212 C Actuarial Science 274 C Mathematical Statistics 214, 244
Financial Risk Management 314	PP Financial Risk Management 212, 242 PP Mathematics 214, 244 PP Mathematical Statistics 214, 244 C Actuarial Science 274
Financial Risk Management 344	P Financial Risk Management 314
Mathematical Statistics 214	PP Mathematics 114, 144 PP Probability Theory and Statistics 114 or 144
Mathematical Statistics 244	PP Mathematical Statistics 214
Mathematical Statistics 318	PP Mathematical Statistics 214, 244 P Mathematics 214, 244
Mathematical Statistics 344	P Mathematical Statistics 318
Mathematical Statistics 354	P Mathematical Statistics 318
Mathematical Statistics 364	P Mathematical Statistics 318
Statistics 214	PP Statistical Methods 176 with a final mark of at least 60 or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144 C Mathematics for Statistics 214 (students who have passed Mathematics 114 or 144 are exempt from this)
Statistics 244	PP Statistics 214 and P Mathematics for Statistics 214
Statistics 318	PP Statistics 244 or PP Mathematical Statistics 244
Statistics 348	P Statistics 318

6. PROGRAMME COMPOSITION

The following undergraduate programmes are offered by the Faculty.
There are five broad programmes:
1. BComm
2. BComm (Economic Sciences)
3. BComm (Management Sciences)
4. BComm (Mathematical Sciences)
5. BComm (Management Sciences) EDP

Current registered students (first registered prior to 2012 only) in BComm (Management Sciences) programmes will be allowed to complete their current programme.
Five programmes offer training aimed specifically at registration with professional bodies:
6. BComm (Actuarial Science) (registration as Actuary)
7. BAcc (registration as chartered accountant)
8. BComm (Financial Accounting) (ACCA registration)
9. BComm (Management Accounting) (CIMA registration)
10. BComm (Industrial Psychology) (registration as industrial psychologist – HPCSA)

Two programmes combine studies in the economic and management sciences with studies in law:
11. BComm (Law)
12. BAccLLB

In the broad BComm programmes there are different focal areas, each serving as the focus of a programme of study. For each of the focal areas there is a recommended curriculum, which indicates to the student meaningful combinations of optional modules. The recommended curricula are not compulsory and serve merely as guidelines. The only actual limitations on students' choices are the rules of the broad programme under which a focal area falls. Within these rules students may deviate from guidelines to compile a curriculum that meets their specific needs.

Undergraduate Programme

1. BROAD PROGRAMMES

1.1 BComm

This is the broadest programme offered by the Faculty. It is not intended to prepare the student for any one career but to provide broad formative training, with a deepening in one of the focal areas of the commerce sciences. The programme also offers students the opportunity to compile their programmes of study in such a way that it may include a field of study from the Faculty of Arts and Social Sciences into the third year of study.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Theory of Interest	152(6)
Statistical Methods	176(18) or
Statistics	186(18)

Elective Modules
plus at least 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	114(12), 152(6), 162(6)
Language Development Afrikaans	114(12), 114(12)
Language Development English	114(12), 144(12)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (at least 128 credits)

Elective Modules
*(At least 32 credits from the writing- and information-enriched modules (marked with an *) have to be included in the curriculum).*

Choose at least three major modules of at least 96 credits:

Agricultural Economics	234(16), 242(8), 262(8)
Economics	214(16) * 244(16) *
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Accounting	288(32)
Information System Management	224(16), 262(8), 254(16)
Industrial Psychology	224(16) * 244(16) *
Investment Management	254(16) in combination with
Financial Management	214(16) or
Financial Planning	214(16)
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16)

Plus other elective modules to supplement the required credits of 128:
Please note: Modules may be chosen, provided that your choice does not create any timetable clashes.

Afrikaans en Nederlands	278(32)
Economics	281(32)
English Studies	278(32)
Financial Management	214(16), 244(16)
French	278(32)
Geography and Environmental Studies	225(16), 265(16) [Remark: Students who are taking / have passed Mathematics 114 could take 214(16) instead of 225(16)]
Industrial Psychology	214(16)
Investment Management	254(16)
Mathematics for Statistics	214(16)
Mercantile Law (Commerce)	283(32)
Philosophy	212(8), 222(8), 242(8), 252(8)
Political Science	212(8), 222(8), 242(8), 252(8)
Public and development management	212(8), 222(8), 242(8), 252(8)
Sociology	212(8), 222(8), 242(8), 252(8)
Statistics	214(16), 244(16)
Xhosa	214(16), 244(16) or 224(16), 254(16) (follows Xhosa 188)

Third Year (at least 120 credits)

Elective Modules
One complete major of at least 48 credits:

Plus other elective modules to supplement the required minimum credits of 120.

Afrikaans en Nederlands	318(24), 348(24)
Agricultural Economics	314(16), 334(16), 354(16), 364(16)
Auditing	388(24)

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Economics	318(24), 348(24), 381(24), 388(24)
English Studies	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Financial Planning	378(48)
French	318(24), 348(24)
Geography and Environmental Studies	314(12), 323(12), 358(16), 363(16)
German	318(24), 348(24) or 328(24), 358(24) (follows German 288)
Industrial Psychology	314(12), 324(12), 348(24)
Information System Management	314(18), 334(18), 364(18), 354(18)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mercantile Law (Commerce)	381(24)
Philosophy	314(12), 324(12), 344(12), 354(12)
Political Science	314(12), 315(12), 324(12), 334(12), 344(12), 354(12), 364(12)
Project management	378(24)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Sociology	314(12), 324(12), 334(12), 344(12), 354(12), 364(12)
Statistics	318(24), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]
Taxation	388(24)
Transport Economics	318(24), 348(24)
Xhosa	318(24), 348(24) or 328(24), 358(24) (follows Xhosa 224, 254)

1.1.1 BComm: Recommended modules for the Agricultural Economics focal area

Why Agricultural Economics?

Agricultural Economics is an interdisciplinary field in which the application of economic and management sciences to the production and marketing of agricultural and food products is studied. A BComm qualification in Agricultural Economics provides access to professional occupations in the growing domestic and international agricultural and food industries. Professional occupations include general management, financial management and logistical management in the entire food value chain.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)

Information Systems	112(6)
Statistics	186(18) or
Statistical Methods	176(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 credits)

Compulsory Modules

Agricultural Economics	234(16), 242(8), 262(8)
Financial Management	214(16)
Investment Management	254(16)

Elective Modules
plus two of:

Economics	214(16), 244(16)
Financial Accounting	288(32)
Logistics Management	214(16), 244(16)
Marketing Management	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Agricultural Economics	314(16), 334(16), 354(16), 364(16)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.1.2 BComm: Recommended modules for the Financial Planning focal area

The focal area Financial Planning has specifically been developed to enable students to enrol for the Postgraduate Diploma in Financial Planning after the successful completion of a BComm degree. Additional information on this diploma programme can be found under the Department of Business Management, in the latter part of this Calendar. Students who complete this diploma successfully are entitled to write the entrance examination for the internationally recognised CFP (Certified Financial Planner) qualification. Additional information on the CFP qualification can be found at www.fpi.co.za.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Theory of Interest	152(6)
Statistical Methods	176(18) or
Statistics	186(18)

Elective Modules
plus at least 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 credits)

Compulsory Modules

Economics	214(16), 244(16)
Financial Accounting	288(32)
Investment Management	254(16)
Financial Planning	214(16)
Mercantile Law (Commerce)	283(32)

Third Year (120 credits)

Compulsory Modules

Financial Planning	378(48)
Investment Management	314(12), 324(12), 348(12), 344(12) or 354(12)
Taxation	388(24)

1.1.3 BComm: Recommended modules for the Investment Management focal area

The focal area Investment Management is specifically developed to enable students after completion of their BComm with Investment Management as focal area to study successfully for Level 1 of the examination for the international Chartered Financial Analyst® (CFA®) qualification. The international CFA is a qualification focussed on portfolio management and investment analysis (shares, bonds, derivative instruments and real estate). All the learning outcomes of Level 1 of the CFA examinations are covered in the second- and third-year modules in Investment Management, second-year modules in Economics, Financial Management and Financial Accounting, and the modules of the generic first-year BComm programme. Successful completion of a BComm programme with these modules allows admission to honours study, where the learning outcomes of Level 2 and 3 of the international CFA examinations are covered. Complete information on the CFA programme is available at www. cfainstitute.org (click on "CFA Program").

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus at least 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)

Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 or 144 credits)

Elective Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Economics	214(16) * 244(16) *
Financial Accounting	288(32)
Financial Management	214(16)
Investment Management	254(16)
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Statistics	214(16), 244(16) and
Mathematics for Statistics	214(16) (strongly recommended)

Third Year (at least 120 credits)

Elective Modules

Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Financial Management	314(12), 344(12) [only compulsory for admission to BCommHons (Financial Analysis)]
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

plus modules from the following to make up the required number of at least 120 credits:

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Statistics	318(24), 348(24)

1.1.4 BComm: Recommended modules for the Public and Development Management focal area

Thorough knowledge of Public and Development Management is essential preparation for various professions in the public, business and voluntary sectors. The public or government sector, which is in every country the largest employer, functions at national, regional,

municipal and community level. The function of the public sector is to guard, regulate and develop, to provide for the people or to ensure that the business and voluntary sector collaborate in these activities. Possible career sectors requiring knowledge in Public and Development Management are the political sector; national, provincial and municipal departments and administrations; voluntary organisations; and the development, business and media sectors. Possible professions in these sectors include those of general managers, chief executive officers, strategic managers, financial managers, personnel managers, project and programme managers, development planners, development managers, community developers, specialists in policy and management research, consulting and advice.

Public and Development Management combines well as focal area or ancillary study area with other subjects in the BComm programme, especially in the programme BComm (Management Sciences). In the Arts and Social Sciences Faculty, Public and Development Management is an option in the programmes BA (Socio-Informatics), BA (Human Resource Management) and BA (Development and Environment) up to third-year level and in the programmes BA (PPE) and BA (Social Dynamics) up to second-year level.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Public and development management	114(12), 144(12)
Statistics	186(18) or
Statistical Methods	176(18)
Theory of Interest	152(6)

Second Year (128 or 144 credits)

Compulsory Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Public and development management	212(8), 222(8), 242(8), 252(8)

Elective Modules
One of:

Entrepreneurship and Innovation Management	214(16) * 244(16) *
Industrial Psychology	224(16) * 244(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)

plus 64 credits from which at least 32 credits from one subject must be taken.

Economics	214(16) * 244(16) *
Financial Accounting	288(32)
Industrial Psychology	214(16)
Statistics	214(16), 244(16) and
Mathematics for Statistics	214(16)

Third Year (at least 120 credits)

Compulsory Modules

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]
Public and development management	314(12), 324(12), 348(24)

Elective Modules

plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24)
Industrial Psychology	314(12), 324(12), 348(24)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)
Financial Accounting	389(48)

1.2 BComm (Management Sciences) for students first registered prior to 2012 only
Current registered students in BComm (Management Sciences) programmes (first registered prior to 2012 only) will be allowed to complete these programmes as listed below.

1.2.1 BComm (Management Sciences) (1st Registration before 2012)

The BComm (Management Sciences) programme offers students broad and open-ended choices of modules. It is also possible within this programme to focus on a specific area of study. For these focal areas there are recommended combinations of modules. See the different focal areas below for the recommended combinations of modules.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Industrial Psychology	112(4)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)

Industrial Psychology	152(6), 162(6)
Language and thinking skills for EMS	114(12)
Language Development Afrikaans	114(12), 144(12)
Language Development English	114(12), 144(12)
Philosophy	112(6), 112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	114(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 or 132 credits)

*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Elective Modules
Two of the following subjects (at least 64 credits):

Agricultural Economics	234(16), 242(8), 262(8)
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Industrial Psychology	224(16) * 244(16) *
Information System Management	224(16), 262(8), 254(16)
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Public and development management	212(8) * 222(8) * 242(8) * 252(8) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)
Investment Management	254(16) in combination with
Financial Management	214(16) or
Financial Planning	214(16)

plus 64 credits of which at least 32 credits must be from one subject:
Modules from the list above not already taken or modules from the second year of the BComm (Economic Sciences) and BComm (Mathematical Sciences) for which students cannot register as part of the BComm programme from the start, but that will be acknowledged if students should change their programmes.

Economics	214(16) * 244(16) * 281(32)
Financial Accounting	288(32)
Financial Management	214(16)
Industrial Psychology	214(16)
Investment Management	254(16)
Mathematics for Statistics	214(16)
Mercantile Law (Commerce)	283(32)
Statistics	214(16), 244(16)

or not more than 32 credits from the following, provided that your choice does not create any timetable clashes:

Afrikaans en Nederlands	278(32)
English Studies	278(32)
French	278(32)

Geography and Environmental Studies	225(16), 265(16) [Remark: Students who are taking / have passed Mathematics 114 could take 214(16) instead of 225(16)]
German	278(32) or 288(32) (for students who passed German 188)
Philosophy	212(8), 222(8), 242(8), 252(8)
Political Science	212(8), 222(8), 242(8), 252(8)
Sociology	212(8), 222(8), 242(8), 252(8), 262(8)
Xhosa	214(16), 244(16) or 224(16), 254(16) (follows Xhosa 188)

Third Year (at least 120 credits)

Compulsory Modules

Project management	378(24) or
Business Ethics	314(12) and
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
One of the following subjects:

Agricultural Economics	314(16), 334(16), 354(16), 364(16)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Financial Planning	378(48)
Industrial Psychology	314(12), 324(12), 348(24)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

plus at least 48 credits from (provided that your choices do not create any class-, test-, or examination clashes):
Modules from the list above not already taken or modules from the third year of the BComm (Economic Sciences) or BComm (Mathematical Sciences) for which students cannot register as part of the BComm programme from the start, but that will be acknowledged if students should change their programmes.

Economics	318(24), 348(24)
Financial Accounting	389(48)
Information System Management	314(18), 334(18), 354(18), 364(18)
Mercantile Law (Commerce)	381(24)
Statistics	318(24), 348(24)

1.3. BComm (Management Sciences) (from 2012)
All BComm (Management Sciences) programs are completely presented in Afrikaans and English. `

1.3.1 BComm (Management Sciences)
The BComm (Management Sciences) programme offers students broad and open-ended choices of modules. It is also possible within this programme to focus on a specific area of study. For these focal areas there are recommended combinations of modules. See the different focal areas below for the recommended combinations of modules.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Second Year (128 or 132 credits)

Elective Modules
At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.
Choose at least three major modules of at least 96 credits:
Plus other choice modules to supplement the required credits of 128:

Economics	214(16), 244(16), 281(32)
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Management	214(16), 244(16)
Financial Accounting	288(32)
Industrial Psychology	214(16), 224(16) * 244(16) *
Information System Management	224(16) * 262(8) * 254(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules
At least 24 credits from:

Project management	378(24)
Management of Corporate Social Responsibility	314(12) or

Business Ethics	314(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
One complete major of at least 48 credits:

Plus other elective modules to supplement the required minimum credits of 120:

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Information System Management	314(18), 334(18), 354(18), 364(18)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

1.3.2 BComm (Management Sciences): Recommended modules for the Entrepreneurship and Innovation Management focal area

This focal area assists students to obtain an orientation of possibly establishing their own business in future and not strive to achieve the so-called work security in the form of a fixed appointment. The focal area consists of four modules that commences in the second year of study and include: Introduction to Entrepreneurship; Small Business Management; Creativity and Innovation Management; Strategic and Corporate Entrepreneurship. Career possibilities: Entrepreneur (start a business of your own, franchise, family business, or buy existing business); Management consultant; Intrapreneur (take advantage of entrepreneurial opportunities within an existing business); Innovation Manager; New Product Manager.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Second Year (128 credits)

Compulsory Modules
*At least 32 credits from the writing and information-enriched modules (marked with an *) must be taken.*

Entrepreneurship and Innovation Management	214(16) * 244(16) *

Elective Modules
plus 96 credits, of which at least 64 credits should be from two subjects:

Economics	214(16) * 244(16) *
Financial Management	214(16), 244(16)
Industrial Psychology	224(16) * 244(16) * [*Industrial Psychology 244 is a co-requisite for Industrial Psychology 314, 324]
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *

Third Year (120 credits)

Compulsory Modules

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Entrepreneurship and Innovation Management	318(24), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus 48 credits from:

Economics	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Industrial Psychology	314(12), 324(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.3.3 BComm (Management Sciences): Recommended modules for the Financial Management focal area

This focal area is geared to employment in the private sector where specialised knowledge of financial management and analysis is required. Financial Management focuses on the following: Financial Planning and Control; Short-term Insurance; Capital Investments; Mergers and Acquisitions. Career possibilities: Financial Director; Financial Advisor; Financial Analyst.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or

Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus at least 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Second Year (128 credits)

Elective Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Economics	214(16) * 244(16) *
Financial Accounting	288(32)
Financial Management	214(16), 244(16)

plus one of:

Entrepreneurship and Innovation Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *

Third Year (at least 120 credits)

Compulsory Modules

Financial Management	314(12), 324(12), 344(12), 354(12)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus the following modules to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.3.4 BComm (Management Sciences): Recommended modules for the Human Resource Management focal area

To achieve the primary objectives of an organisation, a multitude of coordinated activities need to take place, which could be structured in a system of interrelated organisational functions. The human resource function represents one of these organisational functions. The human resource function serves the primary objective of the organisation through the procurement, development and maintenance of a competent work force, as well as the effective and efficient utilisation and management of such a work force. The importance of human resource management flows from the premise that organisational success is significantly dependent on the quality of the work force an organisation employs and the manner in which such a work force is utilised and managed. Labour constitutes a key factor of production due to the fact that organisations are managed, operated and kept going by

people. Labour is the life-giving factor of production through which the other factors of production are mobilised and thus constitutes the factor which determines the effectiveness and efficiency with which the other factors of production are utilised.

The Department of Industrial Psychology would like to see its graduates addressing the current human resource management challenges and business-related people problems in such a way that they will earn the trust, respect and appreciation of line management. The programme BComm (Management Sciences) with specialisation in Human Resource Management could, after approved practical work, lead to non-statutory registration with the South African Board for People Practices (SABPP) as human resource practitioner, and after further postgraduate studies, lead to non-statutory registration with the South African Board for People Practices (SABPP) as chartered human resource practitioner or master human resource practitioner.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Industrial Psychology	114(12), 152(6), 162(6)
Information Systems	112(6)
Statistics	186(18) or
Statistical Methods	176(18)
Theory of Interest	152(6)

Second Year (128 or 132 or 144 or 148 credits)

Compulsory Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Industrial Psychology	214(16), 224(16) * 244(16) *

Elective Modules
plus two subjects of:

Economics	214(16) * 244(16) *
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Accounting	288(32)
Financial Management	214(16), 244(16)
Information System Management	224(16) * 262(8) * 254(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)

plus at least any other 16 credit modules from the list above to make up the required number of at least 128 credits.

Third Year (at least 120 credits)

Compulsory Modules

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)

Industrial Psychology	314(12), 324(12), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)

Note
Financial Management 314, 324, 344, 354 are recommended as primary elective modules. Marketing Management 314, 324, 344, 354 or Entrepreneurship and Innovation Management 318, 348 are recommended as alternative elective modules.

1.3.5 BComm (Management Sciences): Recommended modules for the Information Systems Management focal area

Knowledge is increasingly becoming the deciding factor in advanced economic activities around the world, spurred on to a large extent by the rapid progress in computational power. For organisations today, information is primarily computer processed expressions of knowledge through which productive work is facilitated. But because organisations are complex phenomena and because of the complicated nature of computer technology and the information systems they support, the management of information pose difficult but also fascinating challenges. Please refer to www.informatics.sun.ac.za for more information.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) of
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Second Year (at least 128 credits)

Compulsory Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Information System Management	224(16) * 262(8) * 254(16) *

Elective Modules
plus at least 80 credits from three of:

Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Management	214(16), 244(16)
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Information System Management	314(18), 334(18), 354(18), 364(18)
Select at least 24 credits from:	
Project management	378(24)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.3.6 BComm (Management Sciences): Recommended modules for the Logistics Management focal area

Logistics Management is the process of planning, organising and executing the efficient, effective flow and storage of goods, services and related information from the place of origin to the place of consumption or application for the purpose of optimally meeting customer requirements in order to help maximise the long-run welfare of the firm. Students who intend to be involved with the business of the flow of resources from their origin, the transformation of resources to products, and making the products available to customers at the designated place and time in the required condition and quantity at an acceptable cost or price will pursue this focal area.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Note
Statistical Methods 176 or Statistics 186 or Probability Theory and Statistics 114 or 144 is required for admission to Logistics Management 318. Supply Chain Management 144 is not a prerequisite, but is highly recommended.

Second Year (128 credits)

Compulsory Modules
*At least 32 credit from the writing- and information-enriched modules (marked with an *) must be taken*

Logistics Management	214(16) * 244(16) *

Elective Modules
plus three of:

Industrial Psychology	224(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)
Financial Accounting	288(32) or
Financial Management	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Logistics Management	318(24), 348(24)
Project management	378(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Industrial Psychology	314(12), 324(12), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

1.3.7 BComm (Management Sciences): Recommended modules for the Marketing Management focal area
The Marketing Management focal area and education is based on the following: marketing theory; consumer behaviour; the application of theory to various aspects of marketing, with special emphasis on retail, services, promotion and marketing research; the development of a management orientation in approaching marketing challenges. Career possibilities**:** Marketing Manager; Advertising Manager; Promotion Manager; Brand Manager; Marketing Researcher. The course is continuously adapted to keep up with modern technologies such as the Internet's impact and its advantages for marketing. A variety of modules in other areas form part of the compulsory modules or are available as optional modules.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)
Supply Chain Management	144(12)

Second Year (128 or 144 credits)

Elective Modules
*At least 32 credits from the writing- and information-enriched modules (marked with an *) must be taken.*

Financial Management	214(16), 244(16)
Industrial Psychology	224(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *

plus one of:

Economics	214(16) * 244(16) *
Entrepreneurship and Innovation Management	214(16) * 244(16) *

Third Year (at least 120 credits)

Compulsory Modules

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Logistics Management	318(24), 348(24)

1.3.8 BComm (Management Sciences): Recommended modules for the Quantitative Management focal area

Study in this focal area will equip the student with a combination of management and analytical capabilities to be highly competitive in the business world. The aim is to educate managers and analysts who will, after adequate experience, be able to analyse and manage business functions and processes within the firm at the strategic, tactical and operational level, and to found decisions quantitatively in order to help maximise the firm's wealth.

First Year (120 or 132 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistical Methods	176(18) or
Statistics	186(18)
Supply Chain Management	144(12)
Theory of Interest	152(6)

Elective Modules
plus at least 12 credits from the following:

Business Communication	142(8)
Industrial Psychology	114(12), 152(6), 162(6)
Language and thinking skills for EMS	114(12)

Note
A final mark of at least 60% in Statistical Methods 176 is required for admission to Quantitative Management 214 and 244.

Second Year (128 or 144 credits)

Compulsory Modules
*At least 32 credit from the writing- and information-enriched modules (marked with an *) must be taken.*

Quantitative Management	214(16), 244(16)

Elective Modules
plus at least 96 credits from three of:

Financial Accounting	288(32)
Financial Management	214(16), 244(16)
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Transport Economics	214(16), 244(16)

Third Year (120 credits)

Compulsory Modules

Project management	378(24)
Quantitative Management	318(24), 348(24)

Elective Modules
plus at least 48 credits from:

Financial Accounting	389(48)
Logistics Management	318(24), 348(24)

Marketing Management	314(12), 324(12), 344(12), 354(12)
Transport Economics	318(24), 348(24)

1.4 BComm (Economic Sciences)

The BComm (Economic Sciences) programme offers students a relatively free choice of modules. It is possible, however, within the programme to focus more on a specific field of study by means of recommended modules. Refer to the different focal areas below for more information on the recommended modules.

First Year (120 or 128 credits)

Compulsory Modules

Statistics	186(18)
Theory of Interest	152(6)

or

Actuarial Science	112(8)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

plus

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)

Elective Modules

plus 24 credits from the following if Statistics 186 and Theory of Interest 152 were chosen above:

Afrikaans en Nederlands	178(24)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	152(6), 162(6)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 or 144 credits)

Compulsory Modules

*At least 32 credits from writing- and information-enriched modules (marked with an *) must be taken.*

Statistics	214(16), 244(16) and
Mathematics for Statistics	214(16) (not necessary if Mathematics 114, 144 has been passed)

or

Mathematical Statistics	214(16), 244(16)

plus

Economics	214(16) * 244(16) *
Agricultural Economics	234(16), 242(8), 262(8) or
Economics	281(32) * or
Transport Economics	214(16), 244(16)

Elective Modules
Plus choice modules to supplement the required minimum credits of 128:

Please note: Modules may be chosen, provided that your choice does not create any timetable clashes:

Afrikaans en Nederlands	278(32)
English Studies	278(32)
Financial Accounting	288(32)
Financial Risk Management	212(8), 242(8) and
Actuarial Science	274(24)
Financial Planning	214(16) or
Financial Management	214(16)
Industrial Psychology	224(16) * 244(16) *
Investment Management	254(16)
Financial Management	244(16)
French	278(32)
Geography and Environmental Studies	225(16), 265(16) [Remark: Students who is taking/have passed Mathematics 114 could take 214(16) instead of 225(16)]
German	278(32) or 288(32) (for students who passed German 188)
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Mathematics	214(16), 244(16)
Mercantile Law (Commerce)	283(32)
Operations Research	214(16), 244(16)
Philosophy	212(8), 222(8), 242(8), 252(8)
Political Science	212(8), 222(8), 242(8), 252(8)
Public and development management	212(8) * 222(8) * 242(8) * 252(8) *
Quantitative Management	214(16), 244(16)
Sociology	212(8), 222(8), 242(8), 252(8), 262(8)
Xhosa	214(16), 244(16) or 224(16), 254(16) (follows Xhosa 188)

or not more than 32 credits from the following, provided that your choice does not create any timetable clashes:

Third Year (at least 120 credits)

Compulsory Modules

Economics	318(24), 348(24)
Agricultural Economics	314(16), 334(16), 354(16), 364(16) or
Economics	388(24) or
Transport Economics	318(24), 348(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules, provided that your choice does not create any timetable clashes:

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Economics	381(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Financial Mathematics	378(32)
Financial Risk Management	314(24), 344(24)
Industrial Psychology	314(12), 324(12), 348(24)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	318(24), 348(24)
Mathematics	314(16), 324(16), 344(16), 354(16), 364(16), 365(16)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematical Statistics	318(32), 344(16), 354(16), 364(16)
Operations Research	314(16), 324(16), 344(16), 354(16)
Project management	378(24)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Statistics	318(24), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]
Taxation	388(24)

1.4.1 BComm (Economic Sciences): Recommended modules for the Econometricians focal area

As a focal area, Economics can be combined with other modules to meet different objectives. Three possible combinations are given here. The first combination is proposed for students who have a strong quantitative background and aptitude. The emphasis throughout is on advanced Mathematics and Statistics which are combined with Economics to give students a strong foundation for employment as econometricians in either the financial or public sectors, or at a research institution. The advanced level of mathematical and statistical knowledge will equip the student with the necessary skills to be able to do sophisticated analyses.

First Year (128 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 credits)

Compulsory Modules

Economics	214(16), 244(16), 281(32)
Mathematical Statistics	214(16), 244(16)

Elective Modules

Mathematics	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Economics	318(24), 348(24), 388(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Mathematical Statistics	318(32), 344(16), 364(16)
Financial Mathematics	378(32) [Optional extra]

1.4.2 BComm (Economic Sciences): Recommended modules for the Economic and Management Consultants focal area

The next combination is aimed at people who wish to qualify as economic or management consultants. A good knowledge of Economics is combined with broad exposure to commercial and management subjects such as Mercantile Law and Industrial Psychology. This provides the student with the necessary background to be able to make business-related recommendations covering a broad spectrum of fields.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	152(6), 162(6)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)

Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (144 credits)

Compulsory Modules

Economics	214(16), 244(16), 281(32)
Statistics	214(16), 244(16)
Mathematics for Statistics	214(16)

Elective Modules
plus one of:

Agricultural Economics	234(16), 242(8), 262(8)
Financial Accounting	288(32)
Industrial Psychology	224(16), 244(16)
Mercantile Law (Commerce)	284(32) or 283(32)
Financial Management	214(16) and
Investment Management	254(16)

Third Year (at least 120 credits)

Compulsory Modules

Economics	318(24), 348(24), 388(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Agricultural Economics	314(16), 334(16), 354(16), 364(16)
Economics	381(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Mercantile Law (Commerce)	381(24)

1.4.3 BComm (Economic Sciences): Recommended modules for the Financial Sector focal area

This third combination of modules is suggested for a person wanting to seek employment in the financial sector. As this individual would typically work as an economic or financial analyst, there is ongoing emphasis on mathematical and statistical skills, as well as skills that would be required to analyse investment opportunities and the financial statements of companies.

First Year (128 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 or 136 credits)

Compulsory Modules

Economics	214(16), 244(16), 281(32)
Mathematical Statistics	214(16), 244(16)

Elective Modules
plus at least 32 credits from:

Actuarial Science	274(24) and
Financial Risk Management	212(8), 242(8)
Financial Accounting	288(32) or
Financial Management	214(16), 244(16) or
Investment Management	254(16) or
Mathematics	214(16), 244(16) (for Financial Risk Management 314(24), 344(24))

Third Year (at least 120 credits)

Compulsory Modules

Economics	318(24), 348(24), 388(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Financial Risk Management	314(24), 344(24) or
Financial Accounting	389(48) or
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Mathematical Statistics	318(32), 344(16), 354(16), 364(16) [Optional extra]

1.4.4 BComm (Economic Sciences): Recommended modules for the Transport Economics focal area

Transport Economics is that field of economics which deals with the optimal allocation of scarce resources within the transport sector, and between the transport sector and other sectors in the economy. In this discipline the underlying economic theory is discussed and evaluation methods and decision-making theory are studied and applied in order to equip prospective transport economists to assist with the abovementioned resource allocation in a scientific manner. In addition, the field strives to inform students about the economic principles of transport regulation, transport pricing, competition and government transport policy. Thorough knowledge of these aspects, and the ability to apply transport policy judiciously, should contribute to a transport system which serves the national economy effectively. Transport economics also equip students with the knowledge of the economic characteristics of different modes of transport and the market conditions in which transport supply takes place in order to enable them to successfully manage transport companies.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Statistics	186(18)
Theory of Interest	152(6)

Elective Modules
plus 24 credits from:

Afrikaans en Nederlands	178(24)
Business Communication	142(8)
English Studies	178(24)
French	178(24) or 188(24) (for students who passed Grade 12 French)
Geo Environmental Science	124(16), 154(16)
German	178(24) or 188(24) (for students who passed Grade 12 German)
Industrial Psychology	152(6), 162(6)
Language and thinking skills for EMS	114(12)
Philosophy	112(6), 122(6), 142(6), 152(6)
Political Science	112(6), 122(6), 142(6), 152(6)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Supply Chain Management	144(12)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (128 or 144 credits)

Compulsory Modules

Economics	214(16), 244(16)
Quantitative Management	214(16), 244(16) or
Logistics Management	214(16), 244(16) or
Operations Research	214(16), 244(16)
Statistics	214(16), 244(16) and
Mathematics for Statistics	214(16) or
Mathematical Statistics	214(16), 244(16)
Transport Economics	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Economics	318(24), 348(24)
Transport Economics	318(24), 348(24)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Logistics Management	318(24), 348(24)
Operations Research	314(16), 324(16), 344(16), 354(16)
Project management	378(24)
Quantitative Management	318(24), 348(24)

1.5 BComm (Mathematical Sciences)

The BComm (Mathematical Sciences) programme offers students a relatively free choice of modules. It is possible, however, within the programme to focus more on a specific field of study by means of recommended modules. Refer to the different focal areas below for more information on the recommended modules.

First Year (128 or 154 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6) or
Computer Science	114(16), 144(16)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 credits)

Compulsory Modules

Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Elective Modules
plus 64 credits, of which at least 32 credits must be from one subject:

Actuarial Science	274(24)
Computer Science	214(16), 244(16)
Economics	214(16), 244(16), 281(32)
Entrepreneurship and Innovation Management	214(16), 244(16)
Financial Accounting	288(32)
Financial Management	214(16), 244(16)
Financial Risk Management	212(8), 242(8)
Industrial Psychology	224(16), 244(16)
Investment Management	254(16)
Logistics Management	214(16), 244(16)
Marketing Management	214(16), 244(16)
Operations Research	214(16), 244(16)
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)

Third Year (at least 120 credits)

Elective Modules
At least one of:

Financial Risk Management	314(24), 344(24)
Mathematical Statistics	318(32) plus two of 344(16), 354(16), 364(16)
Operations Research	314(16), 324(16), 344(16), 354(16)

plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Computer Science	314(16), 334(16), 344(16), 354(16)
Economics	318(24), 348(24), 381(24), 388(24)
Entrepreneurship and Innovation Management	318(24), 348(24)

Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12)
Financial Mathematics	378(32)
Industrial Psychology	314(12), 324(12), 348(24)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 344(16), 354(16), 364(16), 365(16)
Project management	378(24)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]
Taxation	388(24)
Transport Economics	318(24), 348(24)

1.5.1 BComm (Mathematical Sciences): Recommended modules for the Computer Science focal area

Computer Science plays a key role in the contemporary business world. Examples include information management system, Internet banking, e-procurement and online shopping. In this focus area, Computer Science is combined with subjects from commerce. In this way, students obtain the best of both worlds: a rigorous understanding of Computer Science as well as management principles.

First Year (154 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Computer Science	114(16), 144(16)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 credits)

Compulsory Modules

Computer Science	214(16), 242(8), 252(8)
Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Elective Modules
plus at least 32 credits from:

Actuarial Science	274(24)
Economics	214(16), 244(16)
Entrepreneurship and Innovation Management	214(16), 244(16)
Financial Accounting	288(32)
Financial Management	214(16), 244(16)
Financial Risk Management	212(8), 242(8)

Industrial Psychology	224(16), 244(16)
Investment Management	254(16)
Logistics Management	214(16), 244(16)
Marketing Management	214(16), 244(16)
Operations Research	214(16), 244(16)
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Computer Science	314(16), 334(16), 344(16), 354(16)

Elective Modules
plus one of:

Financial Risk Management	314(24), 344(24)
Mathematical Statistics	318(32) plus two of 344(16), 354(16), 364(16)
Operations Research	314(16), 324(16), 344(16), 354(16)

plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Computer Science	314(16), 324(16), 344(16), 354(16)
Economics	318(24), 348(24), 388(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Accounting	389(48)
Financial Management	314(12), 324(12), 344(12), 354(12)
Financial Mathematics	378(32)
Industrial Psychology	314(12), 324(12), 348(24)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 344(16), 354(16), 364(16), 365(16)
Project management	378(24)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]
Taxation	388(24)
Transport Economics	318(24), 348(24)

1.5.2 BComm (Mathematical Sciences): Recommended modules for the Financial Risk Management focal area

Persons with training in Financial Risk Management, Mathematical Statistics and Financial Mathematics are employed by the large financial institutions as financial quantitative analysts, such as financial risk managers, portfolio managers and dealers in financial

instruments. This training gives students the necessary background for building a stimulating and financially rewarding career in the financial sectors.

First Year (128 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (136 credits)

Compulsory Modules

Actuarial Science	274(24)
Economics	214(16), 244(16) or
Financial Accounting	288(32) or
Operations Research	214(16), 244(16)
Financial Risk Management	212(8), 242(8)
Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Third Year (144 credits)

Compulsory Modules

Financial Mathematics	378(32)
Financial Risk Management	314(24), 344(24)
Mathematical Statistics	318(32), 344(16), 364(16)

1.5.3. BComm (Mathematical Sciences): Recommended modules for the Mathematical Statistics focal area

Decision-making processes have become increasingly data-based, due to the recent explosion in information. This has led to an increased demand in the private, public and research sectors, both nationally and internationally, for persons with training in Mathematical-statistical theory and procedures together with the concomitant computer skills. Such graduates are employed as statisticians, data miners, data managers and statistical analysts in, for example, marketing, information and management divisions of large organisations. In these capacities they form part of the challenging management and decision-making processes. Students with this type of training are well qualified to obtain stimulating and rewarding positions.

First Year (128 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 or 136 credits)

Compulsory Modules

Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Elective Modules
plus 64 credits, of which at least 32 must be from one subject:

Actuarial Science	274(24)
Economics	214(16), 244(16), 281(32)
Financial Accounting	288(32)
Financial Management	214(16), 244(16)
Financial Risk Management	212(8), 242(8)
Investment Management	254(16)
Marketing Management	214(16), 244(16)
Operations Research	214(16), 244(16)

Third Year (at least 120 credits)

Compulsory Modules

Mathematical Statistics	318(32), 344(16), 364(16)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Economics	318(24), 348(24), 388(24), 381(24)
Financial Accounting	389(48)
Financial Mathematics	378(32)
Financial Risk Management	314(24), 344(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 344(16), 354(16), 364(16), 365(16)
Mathematical Statistics	354(16)
Operations Research	314(16), 324(16), 344(16), 354(16)

1.5.4 BComm (Mathematical Sciences): Recommended modules for the Operations Research focal area

In Operations Research, students learn a systematic and rational (scientific) approach towards calculating best (optimal) answers in situations where the complexity and/or uncertainty are/is very high and when conflict exists between the possible outcomes. The operational researcher's approach to problem solving includes the search for mathematical models offering an optimal answer for different types of situation. This focal area offers powerful tools for solving real practical management problems confronting organisations.

First Year (128 credits)

Compulsory Modules

Actuarial Science	112(8)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (128 credits)

Compulsory Modules

Mathematics	214(16), 244(16)
Mathematical Statistics	214(16), 244(16)
Operations Research	214(16), 244(16)
Logistics Management	214(16), 244(16) or any other module(s) amounting to 32 credits, provided the timetables accommodate this choice

Third Year (at least 120 credits)

Compulsory Modules

Operations Research	314(16), 324(16), 344(16), 354(16)

Elective Modules
plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Financial Mathematics	378(32)
Logistics Management	318(24), 348(24)
Mathematical Statistics	318(32) plus two of 344(16), 354(16), 364(16)
Project management	378(24)
Strategic Management	344(12) [Prerequisite for Advanced Strategic Management at honours level]

2. PROFESSIONAL PROGRAMMES

2.1 Programmes aimed at Registration with an Occupational Council

2.1.1 BComm (Actuarial Science)

This programme is directed towards students who wish to obtain the professional qualification of actuary. The curriculum is structured to enable successful students to obtain exemptions from certain of the examinations of the Actuarial Society of South Africa necessary for qualification as an actuary.

First Year (144 or 154 credits)

Compulsory Modules

Actuarial Science	112(8), 142(16)
Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6) or
Computer Science	114(16)
Mathematics	114(16), 144(16)
Probability Theory and Statistics	144(16)

Second Year (136 credits)

Compulsory Modules

Actuarial Science	242(16), 274(24)
Financial Risk Management	212(8)
Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Elective Modules
plus at least 24 credits from:

Economics	214(16), 244(16)
Financial Risk Management	242(8)

Third Year (144 credits)

Compulsory Modules

Actuarial Science	326(24), 346(24), 388(32)
Mathematical Statistics	318(32), 344(16), 364(16)

2.1.2 BAcc

This programme offers professional education to qualify as a chartered accountant.

First Year (138 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	178(24)
Information Systems	188(24)
Mercantile Law (Acc)	193(24)
Statistics	186(18)
Theory of Interest	152(6)

Second Year (152 credits)

Compulsory Modules

Auditing	288(24)
Business Ethics	214(8), 242(4)
Financial Accounting	278(32)
Information Systems	284(12)
Management Accounting	278(24)
Mercantile Law (Acc)	292(24)
Taxation	298(24)

Third Year (156 credits)

Compulsory Modules

Auditing	378(24)
Financial Accounting	379(48)
Information Systems	312(12)
Management Accounting	378(36)
Taxation	399(36)

2.1.3 BComm (Financial Accounting)

This programme offers professional training aimed at the qualification of certified accountant (ACCA qualification).

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	152(6), 188(24)
Statistics	186(18)
Theory of Interest	152(6)

Second Year (128 credits)

Compulsory Modules

Auditing	288(24)
Financial Accounting	288(32)
Management Accounting	288(24)
Mercantile Law (Commerce)	284(32)
Marketing Management	214(16)

Third Year (144 credits)

Compulsory Modules

Auditing	378(24)
Financial Accounting	389(48)
Management accounting	388(48)
Taxation	388(24)

2.1.4 BComm (Management Accounting)

This programme offers professional training aimed at the chartered accountant (CIMA) qualification.

First Year (120 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	152(6), 188(24)
Statistics	186(18)
Theory of Interest	152(6)

Second Year (128 credits)

Compulsory Modules

Financial Accounting	288(32)
Industrial Psychology (Special)	244(12)
Information Systems	284(12)
Management Accounting	288(24)
Marketing Management	214(16)
Mercantile Law (Commerce)	284(32)

Third Year (144 credits)

Compulsory Modules

Auditing	388(24)
Financial Accounting	389(48)
Management accounting	388(48)
Taxation	388(24)

2.1.5 BComm (Industrial Psychology)

The previous programme name was BComm (Psig).

To achieve the primary objectives of an organisation, a multitude of coordinated activities, which may be structured in a system of interrelated organisational functions, need to take place. The human resource function represents one of these organisational functions. The human resource function serves the primary objective of the organisation through the procurement, development and maintenance of a competent work force, as well as the effective and efficient utilisation and management of such a work force. The importance of human resource management flows from the premise that organisational success is significantly dependent on the quality of the work force an organisation employs and the manner in which such a work force is utilised and managed.

The human resource function needs to assume that the behaviour of working man is an expression of a complex network of situational and person-centred variables. Industrial Psychology embodies the conviction that, despite the complex nature of human behaviour, regularities in the behaviour of working man can be explained in terms of a comprehensive nomological network of psychological constructs, and that the opportunity arises to deductively infer practical human resource interventions aimed at affecting the flow of employees in, through and out of the organisation, and the work-related behaviour of the work force to the advantage of all stakeholders. The Department of Industrial Psychology aims to position its graduates in the market as professional scientific strategic business partners, who can simultaneously fulfil the roles of behavioural scientist, business partner and psychologist with confidence and ease. Completion of the BComm (Industrial Psychology) programme, the BCommHons (Industrial Psychology) programme, an

internship and successfully sitting for a professional board examination leads to statutory registration with the Health Professions Council of South Africa (HPCSA) as a psychometrist (independent practice). Statutory registration with the HPCSA as an industrial psychologist is possible after completion of a MComm (Industrial Psychology), an internship and successfully sitting for a professional board examination.

First Year (138 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Industrial Psychology	114(12), 152(6), 162(6)
Information Systems	112(6)
Philosophy	112(6)
Psychology	114(12)
Statistics	186(18) or
Statistical Methods	176(18)
Theory of Interest	152(6)

Second Year (136 credits)

Compulsory Modules

Industrial Psychology	214(16), 224(16), 244(16)
Psychology	212(8), 222(8), 252(8)

plus 64 credits from the following modules, whilst maintaining the prerequisites of the second- and third-year modules:

Entrepreneurship and Innovation Management	214(16), 244(16)
Financial Management	214(16), 244(16)
Investment Management	254(16)
Marketing Management	214(16), 244(16)

Third Year (At least 144 credits)

Compulsory Modules

Financial Management	314(12), 324(12), 344(12), 354(12) or
Marketing Management	314(12), 324(12), 344(12), 354(12) or
Entrepreneurship and Innovation Management	318(24), 348(24)
Industrial Psychology	314(12), 324(12), 348(24)
Psychology	318(24), 348(24)

Financial Management 314, 324, 344, 354 are recommended as primary elective modules. Marketing Management 314, 324, 344, 354, and Entrepreneurship and Innovation Management 318, 348 are recommended as alternative elective modules.

Remarks

Information regarding undergraduate studies in the Department of Industrial Psychology can be obtained by contacting the Department telephonically on 021 808 3005, or by visiting the Department's website at http://www.sun.ac.za/industrial_psychology/.

3. PROGRAMMES THAT INCLUDE STUDIES IN LAW

3.1 BComm (Law)

This programme not only includes the broad outcomes of the ordinary BComm programme, but also enables graduates to continue with their law studies towards a professional law qualification.

First Year (150 credits)

Compulsory Modules

Business Management	113(12), 142(6)
Economics	114(12), 144(12)
Financial Accounting	188(24)
Information Systems	112(6)
Introduction to Law	171(24)
Private Law	171(24)
Theory of Interest	152(6)
Writing Skills	171(10)

Elective Modules
plus one subject (24 credits) from:

Afrikaans en Nederlands	178(24)
Basic Xhosa	114(12), 144(12)
English Studies	178(24)
Latin	178(24)
Xhosa	178(24) or 188(24) (for students with a first-language proficiency in Xhosa or Zulu)

Second Year (152 credits)

Compulsory Modules

Criminal Law	171(24)
Economics	214(16), 244(16)
Financial Accounting	288(32)
Private law	272(16), 273(16)
Roman Law	271(24)

Third Year (130 credits)

Compulsory Modules

Economics	318(24), 348(24) or
Financial Accounting	389(48)
Economics	381(24) or
Taxation	388(24)
Interpretation of Enacted Law	211(12)
Law of Civil Procedure	371(24)
Law of Criminal Procedure	271(20)
Constitutional Law	271(26)

3.2 BAccLLB

This programme offers the applicable professional training necessary to qualify (with further professional training) as a chartered accountant and/or a legal practitioner.

First Year (168 credits)

Compulsory Modules

Criminal Law	171(24)
Economics	114(12), 144(12)
Financial Accounting	178(24)
Information Systems	188(24)
Introduction to Law	171(24)
Private Law	171(24)
Statistics	186(18)
Theory of Interest	152(6)

Second Year (162 credits)

Compulsory Modules

Auditing	288(24)
Business Ethics	214(8), 242(4)
Constitutional Law	271(26)
Information Systems	284(12)
Interpretation of Enacted Law	211(12)
Law of Criminal Procedure	271(20)
Private law	272(16), 273(16)
Roman Law	271(24)

Third Year (168 credits)

Compulsory Modules

Constitutional Law	312(12)
Financial Accounting	278(32)
International Law	341(12)
Management Accounting	278(24)
Mercantile Law	311(12), 312(12)
Private Law	372(32), 373(32)

Fourth Year (164 credits)

Compulsory Modules

Administrative Law	411(16)
Information Systems	312(12)
Law of Civil Procedure	371(24)
Law of Taxation	411(12), 441(12) *
Legal Philosophy	341(12)
Legal Skills	411(12)
Mercantile Law	471(32)
Two LLB elective modules (24 credits **) ** See the elective modules in the final year of the four-year LLB in Part 8 (Law) of the Calendar.	
Private Law	411(12)

***A Taxation bridging programme presented by the Department of Accounting must be followed with Law of Taxation 411 and 441 and an internal Taxation test required by the Department must be successfully completed in order to gain access to Taxation 399.**

Fifth Year (164 credits)

Compulsory Modules

Auditing	378(24)
Financial Accounting	379(48)
Law of Evidence	471(20)
Management Accounting	378(36)
Taxation	399(36) *

4. FOUR YEAR BACHELOR'S PROGRAMME (EXTENDED DEGREE PROGRAMME)

4.1 Objective

This extended degree programme is designed to ease the transition between school and university. It assists students with teaching disadvantages and affords them the opportunity to register for a BComm degree, even though they did not meet the formal admission requirements needed for BComm studies.

BComm Management Sciences admission requirements:

This is a selection programme and only a limited number of students can be accepted.

The extended degree programme (a four-year programme) has been designed to facilitate the transition from school to university and to make it possible for all students to lay a good foundation for the years ahead. To those students with a weak foundation in Mathematics, Accounting and Communication it also offers the opportunity to improve their grounding by way of prior and self-study. Students in the extended degree programme are expected to spend at least 60 hours per week on their studies (lectures, practicals, tutorials, homework and self-study) and take advantage of the reduced prescribed workload to perform well.

Students are selected for the programme if they meet the following:

- The minimum admission requirements for acceptance to the University
- National Senior Certificate (NSC) with at least a 4 (50%) in four NSC university acceptance subjects
- Adhere to all the specified subjects in the National Senior Certificate exams for admission to the BComm programme, but do not necessarily meet the required level of expected achievement.
- Mathematics 4
- Afrikaans Home Language 4 OR Afrikaans First Additional Language 5 OR English Home Language 4 OR English First Additional Language 5
- Further criteria used for selection:
    - Academic achievement compared to the minimum admission requirements of the BComm Management Sciences programme
    - Teaching disadvantages that can explain the possible insufficient achievement in the National Senior Certificate (NSC) exams

The closing date for applying for the extended degree programme is the end of September. Prospective students who have been provisionally accepted for the BComm Management Sciences programme, but due to the results of their final National Senior Certificate exams do not meet the admission requirements, cannot be accommodated automatically within the Extended Degree Programme. Prospective students will be placed on a waiting list and after the official registration period be considered for placement.

Students selected for this programme must please note the following:

Compulsory attendance – no absence is accepted for the following modules:

- Academic Literacy for EMS 111
- Mathematics for EMS 171
- Introduction to Economics 141
- Introduction to Financial Accounting 171
- The following prerequisite pass modules for the EDP should be noted:
- Mathematics for EMS 171 for Statistical Methods 176 or Statistics 186
- Introduction to Economics 141 for Economics 114 and 144
- Introduction to Financial Accounting 171 for Financial Accounting 188
- **Academic Literacy for EMS 111 for overall re-admittance to the second year**

Students are compelled to make use of tutors/mentors in the modules where this support is available.

Regular individual visits to the coordinator are a prerequisite.

No re-admittance to the University should the required credits not be met.

The choice of modules in this programme is limited to the curriculum prescribed for the BComm Managements Sciences. Conversion to other programmes in the Faculty of Economic and Management Sciences must be approved by the Faculty Council and only in exceptional cases, should the student meet the language specifications of the faculty.

4.2.1 BComm (Management Sciences) EDP (Extended Degree Programme)

First Year (90 credits)

Compulsory Modules

Academic Literacy for Economic and Management Sciences	111(12)
Business Management	113(12), 142(6)
Introduction to Economics	141(12)
Introduction to Financial Accounting	171(24) or
Financial Accounting	188(24) (Students who passed Accounting at Matric level must enrol for Financial Accounting 188. This selection will have an influence on Financial Accounting as a year subject in later study years.)
Mathematics for Economic and Management Sciences	171(18)
Theory of Interest	152(6)

Second Year (104 credits)

Compulsory Modules

Economics	114(12), 144(12)
Information Systems	112(6)
Financial Accounting	188(24)
Statistical Methods	176(18)

Elective Modules

If you already enrolled for and passed Financial Accounting 188, you need to select first-year modules of at least 24 credits from the list below, provided that your choices do not create any class-, test- or examination clashes:

Business Communication	142(8)
Industrial Psychology	114(12) *
Public and development management	114(12), 144(12)
Supply Chain Management	144(12)

If the above is not applicable, select one of the following (at least 32 credits):

Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Management	214(16), 244(16)
Industrial Psychology	114(12), 152(6), 162(6)
Information System Management	224(16) * 262(8) * 254(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Public and development management	114(12) * 144(12) *

Third Year (102 credits)

Elective Modules
*At least 32 credits from writing- and information-enriched modules (marked with an *) must be taken (see also modules mentioned in the second year above).*

Economics	214(16) * 244(16) * 281(32)
Entrepreneurship and Innovation Management	214(16) * 244(16) *
Financial Management	214(16), 244(16)
Financial Accounting	288(32)
Industrial Psychology	214(16), 224(16) * 244(16) *
Information System Management	224(16) * 262(8) * 254(16) *
Logistics Management	214(16) * 244(16) *
Marketing Management	214(16) * 244(16) *
Quantitative Management	214(16), 244(16)
Transport Economics	214(16), 244(16)

Fourth Year (120 credits)

Compulsory Modules
One of the following (48 or 60 or 64 credits):

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 324(12), 344(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Information System Management	314(18), 334(18), 364(18), 354(18)
Logistics Management	318(24), 348(24)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

Elective Modules
Plus modules from the following to make up the required number of at least 120 credits together with the above modules:

Modules from the list above not taken already or modules from the third year of the BComm (Management Sciences), BComm (Economic Sciences) or BComm (Mathematical Sciences) for which students cannot register as part of the BComm programme from the start, but that will be acknowledged if students should change their programmes

Auditing	388(24)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Economics	381(24), 388(24)
Project management	378(24)
Strategic Management(Prerequisite for Advanced Strategic Management at honours level)	344(12)
Taxation	388(24)

4.2.2 Extended degree modules

Academic Literacy for EMS (111)

The focus of this module is to promote academic literacy for economics with an economic thought approach (to think like economists). Students are provided with the opportunity:

- to use economics to solve meaningful problems and understand the art of the logic of economics;
- to practice the skills and analysis that are fundamental to participating in economics debate and decision making;
- to apply basic critical thinking skills through critical listening, reading and writing of economics texts (i.e. deductive reasoning, analyse economic policies, construct arguments and support them, interpret different kinds of economic text (i.e. Adam Smith, Popper, Malthus); understand academic vocabulary, interpret the use of analogies and metaphors in the context of social coordination, individualism, self-interest; understand the market as a system; understand voluntary exchange, profit, process and incentives; read and interpret information presented in graphic or visual format (demand and supply curves);
- to explain their thinking and constructively critique the thinking of others;
- to focus on organising information logically; selecting important information and reducing it to a form that is easy to study and review.
    - Students will further acquire the basic knowledge, skills and attitudes to become successful EMS students by understanding the university ethos, by developing academic readiness and personal management skills such as study, time and stress management.

Introduction to Economics (141)

The focus of this module is to provide a foundation and promote deeper understanding and working knowledge of the following basic fundamental economics concepts:

- What is economics? Basic assumption in economic theory; Economic models; Definitions of economics; Scarcity and choice; Utopias; What is a science? Positive and normative statements; Cause and effect; Unintended consequences; How to study economics.
- Action and results: Contingent behaviour; Production possibilities; Price-taking; Marginal costs and benefits; Exchange and consumption; By-products; The commons.
- The individual and the group: Prisoner's dilemma; Self-interest; Small groups; Coordination; Central planning; Exchange and politics.
- The model of supply and demand: Introduction to demand; The demand curve; Demand terminology; Supply – Benefits and costs; The supply curve; Supply terminology; The model of supply and demand; Assumptions; Buyer and seller equilibrium; Shortages and surpluses.
- Macro-economic topics: Connecting microeconomic foundations with macroeconomic models; Analysing labour markets through demand and supply curves; Growth and development (Hyperinflation and depression); Measuring the economy (Unemployment; Inflation; Gross Domestic Product).

Introduction to Financial Accounting 171

The conceptual framework of Accounting: theoretical principles in International Financial Reporting Standards; the Accounting process; introduction to accounting systems; introduction to financial reporting.

Mathematics for EMS 171

Calculus:

- Introductory concepts regarding functions, mathematical modelling, exponential functions, logarithmic functions, limits, continuity, derivatives, the derivative as a

rate of change, optimisation problems, curve sketching, definite and indefinite integrals, basic integration techniques, areas between curves.

- Linear Algebra:
- Straight lines and linear functions, systems of linear equations, introduction to matrices, linear programming.
- Mathematics of Finance:
- Compound interest, annuities, amortisation and sinking funds.
- Sets and Probability:
- Sets and set operations, permutations and combinations, introduction to probability.

Postgraduate Information

1. DIPLOMAS, HONOURS AND MASTER'S DEGREES

The campus for Diploma programmes, which are presented by the Postgraduate Management School, Bellville Park Campus and the School for Public Leadership (Postgraduate Department, Bellville Park Campus), will be indicated in the programme name.

1.1 Diplomas

1.1.1 Postgraduate Diploma in Actuarial Science

Programme Outcomes

The diploma is well-suited to students who have completed an Honours degree in Actuarial Science and who wish to study further towards an actuarial qualification but who do not yet want to take a Master's degree programme (which has a significant research component).

Specific Admission Requirements

- A BComm (Actuarial Science) or equivalent degree with Actuarial Science and Mathematical Statistics as majors, and Mathematics to at least second-year level; and
- Exemptions from (or passes in the profession's examinations for) all eight of the Foundation and Intermediate Technical examinations of the Actuarial Society of South Africa or Core Technical examinations (CT1–CT8) of the Institute and Faculty of Actuaries.

Notes

Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme Content

At least 120 credits must be completed from the list of elective modules below.

Programme module

Code	Module	Credits	Module Name	Semester
43214	788	120	Postgraduate Diploma in Actuarial Science	Both

Elective modules (120 credits)

Code	Module	Credits	Module Name	Semester
12302	774	60	Actuarial Risk Management (A301/CA1)	Both
10368	811	40	Health and Care Technical (F101)	1
10372	812	40	Life Insurance Technical (F102)	1
10360	843	40	General Insurance Technical (F103)	2
10376	814	40	Pensions Technical (F104)	1
10364	845	40	Finance and Investment Technical (F105)	2
10365	846	40	Finance and Investment Technical (ST6)	2
10369	881	60	Health and Care Applications (F201)	Both
10373	882	60	Life Insurance Applications (F202)	Both
10361	883	60	General Insurance Applications (F203)	Both
10377	884	60	Pensions Applications (F204)	Both
10366	885	60	Investments Applications (F205)	Both
10362	886	60	Finance Applications (SA5)	Both

1.1.2 Postgraduate Diploma in Dispute Settlement (Bellville Park Campus)

Credits

This postgraduate diploma is presented at NQF level 8 (120 credits).

Programme Description

The Postgraduate Diploma in Dispute Settlement is one of the first formal programmes in South Africa that will provide those involved or interested in this field with a comprehensive skills set and knowledge on a postgraduate level. As such, the skills imparted by this diploma will contribute to the peaceful resolution of differences in commerce, the public sector and communities at large. It can also contribute towards the peaceful development of our society and the building of Africa's intellectual capacity.

Programme Outcomes

Learning philosophy

The programme is based on a student-centred learning approach. It combines theory with practical case studies and role plays. The course is delivered through a combination of lectures (contact time), independent self-study of standard texts and references as well as prepared materials, and practical work (role playing and case studies). This will sufficiently prepare and enable students to engage effectively in, and to think comprehensively and systematically about, dispute resolution.

Recognition of prior learning

A limited number of candidates without the required degrees and proven relevant experience in the field of dispute resolution can be admitted on the basis of a portfolio of proven comparable competencies.

Specific Admission Requirements

- A relevant Bachelor's degree.
- Proven relevant experience in dispute resolution is recommended.
- All applicants will be required to submit to a telephonic or in-person interview.

Programme Content

Participants must do two compulsory modules during the first six-day on-campus session and must also choose one of two five-day electives (this programme is presented over one year). Participants also have the option of completing BOTH electives for an additional tuition fee. Between learning modules, participants continue to apply their skills in practice, experiment with new approaches to resolve differences, submit assignments and engage in reflective work.

Code	Module	Credits	Module Name	Semester
12692	778	120	Dispute Settlement	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12697	711	70	Consensus building processes and skills	Both
12695	711	10	Introduction to conflict management and dispute resolution	Both

Elective modules:

Code	Module	Credits	Module Name	Semester
11305	711	40	Introduction to arbitration and dispute resolution	Both
12693	711	40	Mediation	Both

Assessment and Examination

Student progress is monitored by means of continuous assessment focusing on individual performance. Assessments consist of class participation, written assignments, peer- and

facilitator-reviewed role plays, a video assessment, and one integrated case study role play. Students are mentored throughout the programme.

1.1.3 Postgraduate Diploma in Environmental Management

Programme presentation subject to HEQC approval.

Credits

A minimum of 120 credits.

Specific Admission Requirements

A bachelor's degree with a final pass mark of at least 60% in any of the following major subjects: Geography and Environmental Studies, Sociology, Economics, Public and Development Management, Geology, Botany, Zoology, Agricultural Economics, Logistics, Forestry, Ecology/Nature Conservation, Civil Engineering, Architecture, Surveying or any other field regarded as equivalent. On the basis of relevant work experience indicated on the application, other fields could be accommodated.

A BTech degree in Town and Regional Planning as well as other applicable fields.

A four-year bachelor's degree in Town and Regional Planning.

Students are expected to have acquired an acceptable level of computer literacy by the commencement of classes.

Duration

The programme is presented on a modular basis over a one-year period and involves attendance of eight compulsory contact sessions of a week each over the course of the year.

Presentation

English, though assignments and examinations may be written in Afrikaans if preferred by the student.

Programme Content

A brochure is available from the Programme Administrator, tel. 021 808 2151, e-mail jjs3@sun.ac.za

Programme module

Code	Module	Credits	Module Name	Semester
55255	778	120	Environmental Management	Both

Core modules (compulsory)

Code	Module	Credits	Module Name	Semester
10769	771	15	Environmental Ethics (Advanced Study)	Both
59617	771	10	Environmental Economics	Both
11179	771	15	Environmental Issues	Both
60704	771	15	Environmental Law	Both
11919	771	15	Environmental Governance	Both
11176	771	15	Geographical Information Systems in Environ Analysis Management	Both

Elective modules (choose any two)

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
55492	771	15	Development Planning and Environmental Analysis *	Both
58718	771	15	Sustainable Development	Both

* Elective modules may, with permission of the programme coordinator, be exchanged with any other module from the Postgraduate Diploma in Sustainable Development.

Assessment and Examination
Written theoretical, practical and oral examinations as well as written assignments or tasks may be required by the various modules.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection
Due to the limited number of students that can be accommodated yearly selection in accordance with the official selection policy of the University may be unavoidable. Successful students must pay a non-refundable deposit to ensure their space on the programme.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
Normally late January or early February before the official commencement of classes.

1.1.4 Postgraduate Diploma in Financial Planning

Credits
A minimum of 120 credits must be obtained.

Specific Admission Requirements
Matric Mathematics:

A minimum of 50% (level 4) is a prerequisite for all applicants. For matric results before 2009, at least 60% (SG) or 40% (HG) is required.

BComm or LLB OR a bachelor's degree approved by Senate.

Duration
Two years.

Special permission for one-year programme

Persons with BComm (Financial Planning) OR a bachelor's degree plus experience as financial planner can apply for approval to complete the programme in one year.

Presentation
English.

Programme Content
See programme outline below.

Programme modules

Code	Module	Credits	Module Name	Semester
59765	778	120	Postgraduate Diploma in Financial Planning – Two-year programme (778)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
10455	711	30	Financial Planning Environment	1
10647	742	30	Personal Financial Planning	2
10574	713	30	Corporate Financial Planning	1
10454	744	30	Financial Planning Case Study	2

Assessment and Examination
Module work is assessed by means of tests and examinations. An additional FPI examination is written to comply with the requirements for CFP accreditation.

Selection
Selection of students in accordance with the University's official selection policy may be unavoidable due to the limited number of students that can be accommodated.

Selection for the second year will only be considered if at least 50% of the registered modules for the first year have been completed successfully.

Application
Applications for a specific year must be received by the last day of October of the previous year.

Programme Start Date
January

1.1.5 Postgraduate Diploma in HIV/Aids Management

Programme Description
This postgraduate diploma is presented by the Africa Centre for HIV/Aids Management of Stellenbosch University. It is an online (via the Internet) teaching programme that is presented only in English on a part-time basis over one academic year. Students have to attend one compulsory contact session in January – a week-long summer school at Stellenbosch. Students must complete six modules of 20 credits each. A number of compulsory satellite classes will be presented on Saturdays.

Programme Content
Pass requirements
Students must pass all six modules to obtain the necessary 120 credits to pass the diploma.

Programme module

Code	Module	Credits	Module Name	Semester
57665	778	120	Postgraduate Diploma in HIV/AIDS Management	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
56081	713	20	The Epidemiology and Problem of HIV/AIDS	Both
56103	716	20	Socio-cultural aspects of HIV/AIDS	Both
56111	714	20	HIV/AIDS Policy	Both
56138	717	20	Prevention and Care for People Living with HIV/AIDS	2
56146	712	20	Management in the Era of HIV/AIDS	2
56154	715	20	Research monitoring and evaluation of HIV/AIDS programmes	2

Assessment and Examination
The programme makes use of continuous assessment by means of individual assignments.

Credits
120 credits to complete the programme

Selection
Only a limited number of students are accepted each year on the grounds of their qualification, appropriate experience and computer skills.

Application
The admission requirements are: (i) any bachelor's degree or National Higher Diploma or equivalent, (ii) appropriate managerial experience and (iii) computer, internet and e-mail skills.

Application for admission
Prospective students have to apply in writing before 31 October of the year prior to their studies. Application forms are available from the Africa Centre for HIV/Aids Management, or on the Centre's website.

Enquiries
Tel: +27 (0)21 808 3002/3006/2964
E-mail: pdm@sun.ac.za or aids@sun.ac.za or bianca@sun.ac.za
Website: http://www.aidscentre.sun.ac.za

1.1.6 Postgraduate Diploma in Leadership (Bellville Park Campus)

Credits
This postgraduate diploma is presented at NQF level 8 (120 credits).

Programme Description
This programme addresses the need to establish a leadership culture and practices that build a sustainable, competitive, market-based and democratic society. An absence of positive leadership attitudes in public and private organisations continues to inhibit constructive transformation of organisational and leadership practices. Sound technocratic and managerial competencies still form the foundation of high performance, but it is the added presence of clearly discernable leadership competencies that separates average from superior performance.

Programme Outcomes
Learning philosophy
The content of this programme is rooted in well-founded academic research and internationally benchmarked theory and practices. The main objective is to encourage students to combine academic rigour and experiential learning which is applied within the larger framework of internationally benchmarked action and work-based learning. Students are mentored throughout the programme.

Recognition of prior learning
A limited number of candidates without the required degrees and proven relevant experience in the field of leadership can be admitted on the basis of a portfolio of proven comparable competencies.

Specific Admission Requirements
A relevant Bachelor's Degree or demonstrated Assessment and Recognition of Prior learning (ARPL). Proven relevant experience of three to five years in a managerial role is essential.

Programme Content
Students need to complete the seven compulsory modules and one elective. The modules establish the foundations of the four dimensions of leadership development, namely Me (personal leadership), We (interpersonal or team leadership), Work (organisational leadership) and World (societal leadership). The optional elective enables participants to develop a specific leadership attribute or a more specialised core competence.

Program-module

Code	Module	Credits	Module Name	Semester
12245	778	120	Leadership development	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12768	712	14	Personal Authentic Leadership	Both
11313	712	28	Integrative Personal Leadership Development	Both
12770	712	10	High Impact Leadership and Teaming	Both
12771	712	14	Creating and Leading the Organisational Culture	Both
12772	712	10	Transformation and Competitiveness	Both
12773	712	14	Strategy as the Art of Execution	Both
12774	712	10	Role of Business in Society and the Environment	Both

Elective modules:

Code	Module	Credits	Module Name	Semester
12775	712	20	Negotiation and Change Leadership	Both
12776	712	20	Process Oriented Leadership	Both
12778	712	20	Leaders Coaching Leaders	Both

Assessment and Examination

Student progress is monitored by means of continuous assessment. The postgraduate diploma will provide learners with both the theoretical and practical underpinning of leadership development. The theoretical part of the course will be delivered through a class programme of lectures, case studies, tutorials and assignments, while the practical part will consist mainly of syndicate groups, peer-based coaching and workplace application.

1.1.7 Postgraduate Diploma in Marketing

Credits

A minimum of 120 credits

Specific Admission Requirements

Any acceptable bachelor's degree obtained in a field other than marketing. The field of marketing includes the following disciplines at bachelor's level: marketing, consumer behaviour, retailing, marketing communication, services marketing.

Duration

One year full-time from January to November.

Presentation

English

Programme module

Code	Module	Credits	Module Name	Semester
60801	788	120	Marketing	Both

Programme content

See programme outline below.

Code	Module	Credits	Module Name	Semester
10399	745	15	Marketing Research	2
10400	750	20	Marketing Plan	2
10423	748	10	Services Marketing	1
10425	746	5	Marketing Channels	2
10532	719	10	Brand Management	2
10538	718	5	Industrial Marketing	1
10709	747	10	Strategic Marketing	2

11157	717	5	Financial Methods	2
11158	716	10	Advertising and Sales Promotion	1
59625	715	7	Consumer Behaviour	1
60801	714	13	Marketing	1
65641	749	10	Retail Management	1

Assessment and Examination
The programme is subject to continuous assessment. A variety of procedures and methods are employed to undertake the assessment, including written and oral presentations, tests, examinations, case studies, and individual and group assignments.

Selection
Strictly according to admission requirements and performance in bachelor's degree. Only full-time students will be considered for the programme.

Application
Applications for a specific year must be received by 30 September of the previous year.

Programme Start Date
The last week of January.

1.1.8 Postgraduate Diploma in Project Management (Bellville Park Campus)

Credits
This postgraduate diploma is presented at NQF level 8 (120 credits).

Programme Description
Managers are facing increasingly complex challenges, having to contend with rapid changes stemming from constant obsolescence of their products, the necessity for rapid response to their markets and moving fast when faced with opportunities. This situation is exacerbated by most of these challenges being of a discontinuous nature and increasingly requiring inputs across the organisation, or across various organisations or even across various countries. Project management is concerned with delivering a specified, discontinuous deliverable by a specific team representing the various specialist skills required, against planned performance, time and cost targets, and is therefore eminently suited to the above scenario. Even with regard to the public sector, Government has publicly emphasised the need to embrace project management as the way to deliver services and improve service levels.

Programme Outcomes
Learning philosophy
Project management is not a basic management science but an applied management science, building on, applying and integrating basic management knowledge. The proposed qualification, therefore, should combine those management skills underlying effective project management with the philosophy, principles and techniques particular to manage by project. This will not only prepare and increase the availability of competent project managers, but also start to build a pool of executive managers able to manage the project management function in organisations. In addition, it should create upper management skills in respect of understanding the relationship between project management and functional management as well as the integration of projects with the strategic management of organisations.

Recognition of prior learning
A limited number of candidates without the required degrees and proven relevant experience in the field of project management can be admitted on the basis of a portfolio of proven comparable competencies.

Specific Admission Requirements
At least a relevant Bachelor's Degree and a minimum of two years' experience in a project management position in an organisation.

Programme Content
Participants must do eight compulsory modules over a course of two years (four modules in year one and four modules in year two).

Code	Module	Credits	Module Name	Semester
51993	778	120	Project Management	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12977	713	20	Fundamentals of Management	Both
12978	713	20	Managing of Projects	Both
12982	713	8	Project Procurement Management	Both
10851	713	12	Project Risk Management	Both
12979	713	8	Project Communication Management	Both
12980	714	20	Project Cost Management	Both
12981	714	20	Project Management and EQ	Both
12983	714	12	Project Scheduling	Both

Assessment and Examination
Learning achievement of students will be assessed through:

- Individual written assignments for each module as summative assessment requiring the application of theoretical framework in the work context
- A minimum of four written exams on the integration of related modules as summative assessment
- Syndicate and group work as formative assessment
- One group business-driven action learning assignment as formative assessment.

1.1.9 Postgraduate Diploma in Sustainable Development

Credits
A minimum of 120 credits.

Specific Admission Requirements

1. Any bachelor's or BTech degree or a relevant four-year diploma with a 60% pass mark (recommended) in one of the following major subjects: Town and Regional Planning, Housing, Geography and Environmental Studies, Sociology, Psychology, Economics, Public and Development Management, Geology, Botany, Zoology, Forestry, Ecology/ Nature Conservation, Mathematics, Statistics, Agricultural Economics, Transport Economics, Forestry, Civil/Structural/Mechanical/Electrical Engineering, Architecture, Land Surveying or any other major discipline approved by the Programme Committee. Relevant work experience will also be considered for admission; or
2. Any tertiary three-year diploma with at least five years' working experience and compliance with the Assessment and Recognition of Prior Learning (ARPL) policy of the University and the School of Public Leadership. According to this policy, the equivalent of 120 credits at NQF level 7 (bachelor's degree level) must be offered in one or more of the following ways, subject to the decision of the Programme Committee, consisting of the Director of the School of Public Leadership, the Programme Director and other relevant persons:

2.1 Completion of supplementary modules prior to or during the degree programme

2.2 Recognition of professional short courses, in-service training courses and completed subjects for a degree or diploma

2.3 Submission of a learning portfolio, with copies of written work (manuals, project proposals, reports, etc.)

2.4 Passing an entrance examination

Programme Structure

This structured transdisciplinary programme, with four options/specialisations that focus on the planning, management and practice of sustainable development, is presented in partnership with the Sustainability Institute. The structured Postgraduate Diploma in Sustainable Development is obtained through coursework (eight modules of 15 credits each). Unless specified otherwise by the Programme Director from time to time, all modules will be presented on the premises of the Sustainability Institute at Lynedoch.

Duration

The postgraduate diploma can be obtained after a minimum period of one year and the successful completion of eight modules. The programme is presented over a period of one year (full-time) or two years (part-time) in a modular one-week contact session per module, with independent structured self-study for the rest of the study period.

Presentation Notes

The language of instruction during formal teaching sessions, class discussions and class presentations will be English.

Notes

Please note that approval in terms of the ARPL policy requires quite a lot of additional information, and also takes time. Often it is a condition of acceptance that the student successfully completes one or more modules in a year as an executive student, after which the ARPL application will be processed. The student can then formally register the year following his original application, but all completed modules will be recognised for the purpose of the degree.

Also note that a Postgraduate Diploma is a multidisciplinary postgraduate qualification, on the same level as a BHons degree.

Programme Content

(A brochure on the Postgraduate Diploma (Sustainable Development) is available at www. sustainabilityinstitute.net)

This structured transdisciplinary Postgraduate Diploma is composed of coursework that focuses on the planning, management and practice of sustainable development. Four programme options are provided for, with different combinations of modules in each of the options. Each option consists of eight modules that have to be completed. Modules of the PG Dip (Sustainable Development) that have been completed by students as executive or special students (including successful completion of all group work and individual assignments and journals) will be recognised for the purpose of the degree.

The coursework component of the PG Dip (Sustainable Development) is composed of a compulsory foundation module and compulsory and elective core modules.

Programme composition

The foundation module (Sustainable Development) is compulsory. Each option/specialisation (Sustainable Development, Sustainable Development Planning, Sustainable Agriculture, Renewable and Sustainable Energy) requires a specific combination of module selections. Although still to be confirmed, the graduation certificate will specify the specialisation as a second qualifier (e.g. Postgraduate Diploma in Sustainable Development (Planning)). The requirements are described in detail below.

Option 1: Sustainable Development

This option makes it possible for students to craft their own programme of sustainability studies by selecting any combination of modules from all modules offered in the Postgraduate Diploma (Sustainable Development). Students must select one compulsory module and seven core modules. A maximum of two core modules can be selected from the modules offered by the Engineering Faculty.

Programme module

Code	Module	Credits	Module Name	Semester
58122	788	120	Sustainable Development Planning and Management	Both

Compulsory module

Code	Module	Credits	Module Name	Semester
58718	771	15	Sustainable Development	Both

A choice of at most seven core modules from the following core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11195	773	15	Governance Globalisation and Civil Society	Both
11199	775	15	Sustainable Cities	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
11192	773	15	Leadership and Ethics	Both
11187	772	15	Biodiversity and Sustainable Agriculture	Both
11188	776	15	Ecological Design for Community Building	Both
12230	771	15	Introduction to Development Planning	Both
11191	774	15	Corporate Citizenship	Both
11194	772	15	Development Planning Theory and Practice	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
11198	775	15	Applied Economics	Both
11181	772	15	Policy and Legal Framework for Rural Development in Agricultural Sector	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both
12232	774	15	Food Security and Globalised Agriculture	Both
12531	771	15	Renewable Energy Financing	1
11651	771	15	Renewable Energy Policy	Both
12530	771	15	System Dynamics Modelling	Both

A choice of at most two core modules from the following core modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
64920	744	15	Solar Systems	2
64890	714	15	Renewable Energy Systems	1
11948	774	15	Wind and Hydro Energy	Both

Option 2: Sustainable Development Planning

Students who intend to practice as planners in South Africa or elsewhere are advised to select this programme option. Students are required to complete six compulsory modules, and may then select additional modules from the list of core modules, and may then select any two modules from the list of core modules offered by the School of Public Leadership and the Engineering Faculty. (Note: If permission is granted to reduce the number of compulsory modules, no more than two modules can be selected from the modules offered by the Engineering Faculty.)

Compulsory modules

Code	Module	Credits	Module Name	Semester
58718	771	15	Sustainable Development	Both
12230	771	15	Introduction to Development Planning	Both
11194	772	15	Development Planning Theory and Practice	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
11198	775	15	Applied Economics	Both

Students may request in writing to be exempted from any compulsory planning module by the Programme Director if they can prove the completion of a similar postgraduate module at any university, but will then have to choose another module in the place of that module from the list of core modules.

All students wanting to complete the Sustainable Development Planning option are advised to first complete the Introduction to Development Planning module before attending any other development planning modules.

After completion of the Postgraduate Diploma (Sustainable Development), students wishing to complete this option of the MPhil in Sustainable Development are advised to select four additional electives as listed under this programme. The research component for the MPhil in Sustainable Development will also need to have a Sustainable Development Planning focus.

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11195	773	15	Governance Globalisation and Civil Society	Both
11199	775	15	Sustainable Cities	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
11192	773	15	Leadership and Ethics	Both
11187	772	15	Biodiversity and Sustainable Agriculture	Both
11188	776	15	Ecological Design for Community Building	Both
11191	774	15	Corporate Citizenship	Both
11181	772	15	Policy and Legal Framework for Rural Development in Agricultural Sector	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both
12232	774	15	Food Security and Globalised Agriculture	Both
12531	771	15	Renewable Energy Financing	1
11651	771	15	Renewable Energy Policy	Both
12530	771	15	System Dynamics Modelling	Both

Core modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
64920	744	15	Solar Systems	2
64890	714	15	Renewable Energy Systems	1
11948	774	15	Wind and Hydro Energy	Both

Option 3: Sustainable Agriculture

Compulsory modules

Code	Module	Credits	Module Name	Semester
58718	771	15	Sustainable Development	Both
11187	772	15	Biodiversity and Sustainable Agriculture	Both
11181	772	15	Policy and Legal Framework for Rural Development in Agricultural Sector	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both
12232	774	15	Food Security and Globalised Agriculture	Both

In addition to the five compulsory modules, three core modules must be selected from the options described below, on condition that not more than three core modules are selected from the modules presented by departments in the Engineering and AgriSciences Faculties and not more than three core modules is selected from the core modules presented by the School of Public Leadership

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11195	773	15	Governance Globalisation and Civil Society	Both
11199	775	15	Sustainable Cities	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
11192	773	15	Leadership and Ethics	Both
11188	776	15	Ecological Design for Community Building	Both
12230	771	15	Introduction to Development Planning	Both
11191	774	15	Corporate Citizenship	Both
11650	771	15	Energy Efficient Cities	Both
11651	771	15	Renewable Energy Policy	Both
11182	772	15	Development Planning Systems Law and Policy	Both
11194	772	15	Development Planning Theory and Practice	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11198	775	15	Applied Economics	Both
12530	771	15	System Dynamics Modelling	Both

Choice of core modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
64912	744	15	Conventional Energy Systems	2
64920	744	15	Solar Systems	2
64890	714	15	Renewable Energy Systems	1
12233	723	15	Sustainable Land Cover Planning	Both
11948	774	15	Wind and Hydro Energy	Both

Option 4: Renewable and Sustainable Energy

The programme is jointly managed by the Centre for Renewable and Sustainable Energy Studies (Department of Mechanical and Mechatronic Engineering), the School of Public Leadership and the Sustainability Institute. Students who enrol for this option will be studying together with engineering students. This creates a challenging learning environment that will prepare people for working across disciplines as is required for those who pursue careers in the sustainable energy field. Students are required to complete certain compulsory modules and also select additional modules from the list of core modules. Some of these modules will be taught by departments in the Engineering Faculty.

Compulsory modules

Code	Module	Credits	Module Name	Semester
58718	771	15	Sustainable Development	Both
12531	771	15	Renewable Energy Financing	1
11651	771	15	Renewable Energy Policy	Both
11188	776	15	Ecological Design for Community Building	Both
11948	774	15	Wind and Hydro Energy	Both

In addition to the five compulsory modules, three core modules must be selected from the options described below, on condition that not more than two core modules are selected from the modules presented by departments in the Engineering Faculty.

Core module presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
11187	772	15	Biodiversity and Sustainable Agriculture	Both
11191	774	15	Corporate Citizenship	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
12230	771	15	Introduction to Development Planning	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
11194	772	15	Development Planning Theory and Practice	Both
11195	773	15	Governance Globalisation and Civil Society	Both
11192	773	15	Leadership and Ethics	Both
11181	772	15	Policy and Legal Framework for Rural Development in Agricultural Sector	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both
12232	774	15	Food Security and Globalised Agriculture	Both
12530	771	15	System Dynamics Modelling	Both

Two core modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
64920	744	15	Solar Systems	2
11948	774	15	Wind and Hydro Energy	Both

After completing the PG Dip (Sustainable Development), the research component for the MPhil (Sustainable Development) will need to have a renewable and sustainable energy focus.

Assessment and Examination

The foundation, core and general modules will be subject to continuous assessment, which includes a combination of any of the following methods:

- two individual assignments to be handed in after completion of the module on a date stipulated in the course outline or by the course convenor;
- class work (normally working in groups during the module);
- a journal of readings and reflections on the module;
- a written examination/test and/or an oral examination; and
- short daily class assignments, based on prescribed readings.

Each module coordinator has discretion as to the most appropriate combination of assessment methods, provided that each assessment does not count more than 25% of the total mark for the module.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (cum laude). To pass the PG Dip (Sustainable Development), an average final mark of 50% (including a pass mark of 50% for each of the modules) is required and an average final mark of 75% is required to pass with distinction (cum laude). A minimum of 50% for each individual assignment is required for each module.

Selection

Due to the limited number of students that can be accommodated in the programme, yearly selection in accordance with the overall selection policy of the University may be unavoidable. Preference will be given to applicants with relevant experience who apply early.

Application

Applications for a given year must be received by the end of August of the previous year, unless the Programme Director allows a student to apply after this date.

Enquiries

Enquiries regarding the programme content, study fees and application procedure can be addressed to The Administrator: Master's programme in Sustainable Development, School of Public Leadership, Stellenbosch University, PO Box 162, Lynedoch 7603.

Tel.: 021 881 3952; E-mail: beatrix.steenkamp@splsun.ac.za.

2 HONOURS PROGRAMMES

2.1 BCommHons

2.1.1 BCommHons programmes

Programme Description
For details regarding specialised programmes in Actuarial Science, Agricultural Economics, Business Management, Economics, Industrial Psychology, Logistics Management, Management Accounting, Maritime Study, Mathematical Statistics, Operations Research, Public and Development Management, Quantitative Management, Statistics, Taxation and Transport Economics, see under Subjects, Modules and Module Content at the back of this Part of the Calendar. Specialised programmes in Computer Science, Mathematics and Sociology can also be taken for the BCommHons degree. Details can be found in the Subjects, Modules and Module Content section at the back of the Arts and Social Sciences Faculty and Science Faculty parts of the Calendar.

Specific Admission Requirements
Admission requirements and programme content
Refer to the departmental entry further on in this Part of the Calendar.

Other Requirements
The BCommHons degree is awarded to students who are in possession of a BComm, BEcon, BPublic Management or BLog degree of this University or another bachelor's degree approved by Senate – upon written application – or by the Executive Committee acting on behalf of Senate, and who are admitted to the BCommHons programme; and after obtaining the prescribed BComm, BEcon, BPublMan or BLog degree or other bachelor's degree, take the prescribed programme for at least one year in the case of full-time students or for at least two years in the case of part-time students at the University and at the end thereof pass the examination.

Notes
1. For admission to the BCommHons (Management Accounting), the BComm (Management Accounting), BComm (Financial Accounting), BAcc or the BAccLLB is required (see under Subjects, Modules and Module Content at the back of this Part of the Calendar).
2. Those students without Statistical Methods 176 or Mathematical Statistics 214 as part of their bachelor's programme must take Statistical Methods 176 or other modules approved by Senate for this purpose to supplement their degree programme before the particular honours degree specialising in Business Management, Logistics Management or Transport Economics can be awarded.
3. The honours programmes can also be taken on a part-time basis, under the following conditions:

3.1 The programme must be distributed (spread) over at least two years.

3.2 The examination results stand over until the whole examination has been completed.

2.1.2 BCommHons (Actuarial Science)

Programme Description
The Actuarial Science Honours programme is suited to students who have completed an undergraduate degree in Actuarial Science and who have been exempted from (or passed the profession's examinations in) most of the technical subjects of the Actuarial Society of South Africa (or Institute and Faculty of Actuaries). The degree offers successful students exemptions from the profession's examinations up to the level of associate actuary.

Specific Admission Requirements

- A BComm (Actuarial Science) or equivalent degree with Actuarial Science and Mathematical Statistics as majors;
- Passes in university modules equivalent to at least seven of the eight foundation and intermediate technical subjects of the Actuarial Society of South Africa (or core technical subjects CT1–CT8 of the Institute and Faculty of Actuaries); and
- Exemptions from (or passes in the profession's examinations for) at least five of the foundation and intermediate technical examinations of the Actuarial Society of South Africa (or core technical examinations CT1–CT8 of the Institute and Faculty of Actuaries), including at least one of the subjects A201 (CT1) or A203 (CT5).

Programme Content

Note: At least 120 credits must be completed from the list of compulsory and elective modules below.

Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme module

Code	Module	Credits	Module Name	Semester
43214	778	120	BCommHons (Actuarial Science)	Both

Compulsory modules (108 credits)

Code	Module	Credits	Module Name	Semester
10363	737	18	Financial Economics (A205/CT8)	1
12302	774	60	Actuarial Risk Management (A301/CA1)	Both
12991	791	30	Actuarial Science: Research Assignment	Both

Elective modules (at least 12 credits)

Code	Module	Credits	Module Name	Semester
10371	773	6	Communications (A302)	1
10394	711	12	Bayesian statistics	1
11164	732	12	Financial Mathematical Statistics A	1
11165	762	12	Financial Mathematical Statistics B	2
10602	715	12	Multivariate statistical analysis A	1
10603	745	12	Multivariate statistical analysis B	2
11166	736	6	Practical financial modelling	1
65250	718	12	Stochastic Simulation	1
10636	746	12	Survival analysis	2
10751	747	12	Time series analysis B	2

2.1.3 BCommHons (Agricultural Economics)

Credits

A minimum of 120 credits.

Programme module

Code	Module	Credits	Module Name	Semester
15504	778	120	BCommHons (Agricultural Economics)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
15504	781	30	Research project: Agricultural economics	Both

Elective modules
Select a minimum of 56 credits from the following modules:

Code	Module	Credits	Module Name	Semester
15504	785	16	Agricultural policy in the South African context	2
15504	784	16	Environmental policy	2
15504	783	16	Foundations of Agricultural Economics: an institutional approach	1
15504	782	16	National and international market analysis	1
15504	771	20	Farm management	Both
15504	772	20	Topical issues in agricultural policy	Both
15504	773	20	Wine marketing	Both
15504	774	20	Resource and environmental economics	Both
15504	775	20	Agricultural production and resource management	Both
15504	776	20	International trade and marketing	Both
15504	780	20	Rural development	Both

Students can elect from the honours modules following the 300-level modules of their other major subject(s) up to a maximum of 32 credits, subject to the permission of the relevant department, to contribute to a minimum of 120 credits.

2.1.4 BCommHons (Business Management)

Credits
A minimum of 120 credits.

Specific Admission Requirements
A BA, BComm, or BAgricAdmin degree from this University or another bachelor's degree that has been approved by Senate; and an average of 60% in the modules from the respective focal areas offered by the Department of Business Management.

All prospective postgraduate students and in particular students who graduates in other departments must consult the departmental website as there are both general and module-specific requirements for individual postgraduate modules.

Admission is also subject to attendance of a compulsory orientation programme during the week before the commencement of the official classes.

Programme Structure
A student who wishes to study Business Management as major has to obtain a minimum of 120 credits, of which at least 84 credits have to be earned in subjects that are offered by the Department of Business Management. A maximum of 36 credits may be earned by way of advanced study in the following departments (the credit values of such study must be decided in advance by the Chairperson of the Department of Business Management and the respective departments):

Accounting
Agricultural Economics
Economics
Graduate School of Business
Industrial Psychology
Logistics
Statistics and Actuarial Science

Duration
Twelve months

Programme Content
The following modules are offered by the Department of Business Management, subject to annual approval by the Chairperson of the Department. (All modules are not necessarily presented every year.)

The respective modules must be selected in consultation with the Chairperson of the Department. Further information on the content of the programme can be obtained on the Department's website at http://academic.sun.ac.za/business/.

Programme module

Code	Module	Credits	Module Name	Semester
48550	778	120	BCommHons (Business Management)	Both

Compulsory module (30 credits)

Code	Module	Credits	Module Name	Semester
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for Business Management 879.)	Both

Elective modules (90 credits)

Code	Module	Credits	Module Name	Semester
65181	711	9	Advanced Entrepreneurship	2
11149	741	18	Advanced Marketing Management	1
11151	742	18	Advanced Strategic Management	1
11156	748	9	Business-to-Business Marketing	2
65226	711	18	Corporate Venturing	2
11141	711	18	Financial Derivative Instruments	1
11148	750	9	Electronical Marketing Channels	2
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
59595	713	18	International Marketing	1
11155	744	18	International Business	2
65196	711	18	Managing Innovation and Breakthrough Ideas	1
10425	751	9	Marketing Channels	Both
62138	712	18	Marketing Communication	2
10399	747	18	Marketing Research	Both
65218	711	18	Marketing Metrics	Both
11144	745	18	Portfolio Management	2
65234	711	18	Organisational diagnoses en mentoring	2
11153	711	18	Product and Brand Management	Both
44024	746	18	Property Investment and Finance	1
43311	716	18	Short-Term Insurance	1
11154	718	18	South African Management Issues	2
11268	771	18	Value-based Financial Management	2

and/or
*Any elective module(s) to a maximum of 36 credits from another department in any faculty within Stellenbosch University, in consultation with the Chair of the **Department of Business Management**;*

or
*Any elective module(s) to a maximum of 36 credits from another university, according to the existing exchange agreements of Stellenbosch University, in consultation with the Chair of the **Department of Business Management**.*

Assessment and Examination
Examinations take place at the end of the first semester in June and at the end of the second semester in November.

Selection
Only a limited number of applicants may be accommodated in the programme. Selection may therefore take place in accordance with the University's overall selection policy.

Application
Applications for a particular year must be received before the end of August of the previous year.

Programme Start Date
One week before the official commencement of lectures.

2.1.5 BCommHons (Business Management: Specialising in Financial Management)

Programme module

Code	Module	Credits	Module Name	Semester
12314	778	120	Business Management: Financial Management	Both

Compulsory modules (84 credits)

Code	Module	Credits	Module Name	Semester
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for Business Management 879.)	Both
11268	771	18	Value-based Financial Management	2
51047	713	18	Financial Management	1
43311	716	18	Short-Term Insurance	1

Elective modules (36 credits)

Code	Module	Credits	Module Name	Semester
11141	711	18	Financial Derivative Instruments	1
10425	751	9	Marketing Channels	Both
62138	712	18	Marketing Communication	2
10399	747	18	Marketing Research	Both
11156	748	9	Business-to-Business Marketing	2
65196	711	18	Managing Innovation and Breakthrough Ideas	1
11148	750	9	Electronical Marketing Channels	2
11149	741	18	Advanced Marketing Management	1
65181	711	9	Advanced Entrepreneurship	2
11151	742	18	Advanced Strategic Management	1
65226	711	18	Corporate Venturing	2
59595	713	18	International Marketing	1

11155	744	18	International Business	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11144	745	18	Portfolio Management	2
65218	711	18	Marketing Metrics	Both
65234	711	18	Organisational diagnoses en mentoring	2
11153	711	18	Product and Brand Management	Both
11154	718	18	South African Management Issues	2
11147	717	9	Fixed Interest Securities	2
44024	746	18	Property Investment and Finance	1

and/or

*Any elective module(s) to a maximum of 36 credits from another department in any faculty within Stellenbosch University, in consultation with the Chair of the **Department of Business Management**;*

or

*Any elective module(s) to a maximum of 36 credits from another university, according to the existing exchange agreements of Stellenbosch University, in consultation with the Chair of the **Department of Business Management**.*

2.1.6 BCommHons (Business Management: Specialising in Marketing Management)

Programme module

Code	Module	Credits	Module Name	Semester
12312	778	120	Business Management: Marketing Management	Both

Compulsory modules (84 credits)

Code	Module	Credits	Module Name	Semester
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for Business Management 879.)	Both
62138	712	18	Marketing Communication	2
10399	747	18	Marketing Research	Both
11149	741	18	Advanced Marketing Management	1

Elective modules (36 credits)

Code	Module	Credits	Module Name	Semester
65181	711	9	Advanced Entrepreneurship	2
11151	742	18	Advanced Strategic Management	1
11156	748	9	Business-to-Business Marketing	2
65226	711	18	Corporate Venturing	2
11141	711	18	Financial Derivative Instruments	1
11148	750	9	Electronical Marketing Channels	2
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
59595	713	18	International Marketing	1
11155	744	18	International Business	2
65196	711	18	Managing Innovation and Breakthrough Ideas	1
10425	751	9	Marketing Channels	Both

65218	711	18	Marketing Metrics	Both
11144	745	18	Portfolio Management	2
65234	711	18	Organisational diagnoses en mentoring	2
11153	711	18	Product and Brand Management	Both
44024	746	18	Property Investment and Finance	1
43311	716	18	Short-Term Insurance	1
11154	718	18	South African Management Issues	2
11268	771	18	Value-based Financial Management	2

and/or

Any elective module(s) to a maximum of 36 credits from another department in any faculty within Stellenbosch University, in consultation with the Chair of the ***Department of Business Management;***

or

Any elective module(s) to a maximum of 36 credits from another university, according to the existing exchange agreements of Stellenbosch University, in consultation with the Chair of the ***Department of Business Management****.*

2.1.7 BCommHons (Business Management: Specialising in Strategy and Innovation)

Programme module

Code	Module	Credits	Module Name	Semester
12313	778	120	Business Management: Strategy and Innovation	Both

Compulsory modules (84 credits)

Code	Module	Credits	Module Name	Semester
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for Business Management 879.)	Both
65196	711	18	Managing Innovation and Breakthrough Ideas	1
11151	742	18	Advanced Strategic Management	1
65226	711	18	Corporate Venturing	2

Elective modules (36 credits)

Code	Module	Credits	Module Name	Semester
65181	711	9	Advanced Entrepreneurship	2
11156	748	9	Business-to-Business Marketing	2
11141	711	18	Financial Derivative Instruments	1
11148	750	9	Electronical Marketing Channels	2
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
59595	713	18	International Marketing	1
11155	744	18	International Business	2
10425	751	9	Marketing Channels	Both
65218	711	18	Marketing Metrics	Both
11144	745	18	Portfolio Management	2
65234	711	18	Organisational diagnoses en mentoring	2
11153	711	18	Product and Brand Management	Both
44024	746	18	Property Investment and Finance	1

43311	716	18	Short-Term Insurance	1
11154	718	18	South African Management Issues	2
62138	712	18	Marketing Communication	2
10399	747	18	Marketing Research	Both
11149	741	18	Advanced Marketing Management	1
11268	771	18	Value-based Financial Management	2

and/or
Any elective module(s) to a maximum of 36 credits from another department in any faculty within Stellenbosch University, in consultation with the Chair of the ***Department of Business Management;***

or
Any elective module(s) to a maximum of 36 credits from another university, according to the existing exchange agreements of Stellenbosch University, in consultation with the Chair of the ***Department of Business Management.***

2.1.8 BCommHons (Economics)

One of two streams can be chosen for the honours programme: Pure Economics or Financial Economics. The semester in which the modules are presented may change at short notice from year to year.

Credits
A minimum of 120. A maximum of 20 credits may be obtained from a related and approved field of study.

Specific Admission Requirements
A bachelor's degree with an average mark of at least 60% for Economics 3.

A minimum achievement mark of 60% in the Intensive Mathematics course that precedes the formal programme.

Grade 12 Mathematics:

Matriculated before 2008: At least 60% (SG) or 40% (HG)
Matriculated in 2008: At least a 3 (40%)
Matriculated in 2009: At least a 4 (50%)
Matriculated after 2009: At least a 5 (60%)

In exceptional circumstances, a student that does not meet the Grade 12 Mathematics requirement may be considered for admission via the University's policy for the Assessment and Recognition of Prior Learning.

Duration
Twelve months. Must be completed within three years. If not, the compulsory modules must be repeated.

Presentation
English.

Programme module

Code	Module	Credits	Module Name	Semester
12084	778	120	BCommHons (Economics)	Both

Pure Economics

Compulsory modules

Code	Module	Credits	Module Name	Semester
11216	771	30	Research Assignment: Economics	Both
10541	771	12	Introductory econometrics	Both

10595	771	12	Macroeconomics	Both
10605	771	12	Microeconomics	Both
10760	771	14	Mathematical economics	Both

Elective modules

At least 40 credits must be taken. Not all the modules are necessarily presented every year.

Code	Module	Credits	Module Name	Semester
11267	872	18	Advanced Cross-section Econometrics	Both
12528	872	18	Advanced Time Series Econometrics *	Both
10436	771	10	Economic History	Both
10432	771	10	Economics of Education I	Both
10434	771	10	Economics of Technological Change	Both
12228	771	10	Financial Economics	Both
10457	771	10	Financial Markets Analysis	Both
11263	771	10	Industrial organisation	Both
64041	771	10	Institutional Economics	Both
10554	771	10	International Finance	Both
10555	771	10	International Trade Theory and Policy	Both
51861	771	10	Labour Economics	Both
64033	771	10	Monetary Economics	Both
59617	771	10	Environmental Economics	Both
10635	771	10	Development Economics	Both
11143	771	10	Public Economics	Both
10742	771	10	Applied Macroeconomics I	Both
10743	772	10	Applied Macroeconomics II	Both
10745	771	10	Applied Microeconomics I	Both
10746	771	10	Applied Microeconomics II	Both

**Selection of students takes place.*

Financial Economics

Compulsory modules

Code	Module	Credits	Module Name	Semester
10457	771	10	Financial Markets Analysis	Both
10541	771	12	Introductory econometrics	Both
10554	771	10	International Finance	Both
10595	771	12	Macroeconomics	Both
10605	771	12	Microeconomics	Both
64033	771	10	Monetary Economics	Both
11216	771	30	Research Assignment: Economics	Both
10760	771	14	Mathematical economics	Both

Elective modules

Code	Module	Credits	Module Name	Semester
12228	771	10	Financial Economics or	Both
11141	711	18	Financial Derivative Instruments * or	1
11144	745	18	Portfolio Management **	2

*A final mark of 65% in Investment Management 344 is a prerequisite.

**Investment Management 254 is a prerequisite pass module. Investment Management 314, 324 and 354 are strongly recommended and selection of students takes place.

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a relatively large number of essays and an assignment.

Selection
Selection of students in accordance with the University's official selection policy may be unavoidable due to the limited number of students that can be accommodated in the programme.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
A three-week intensive mathematics course precedes the formal programme and commences middle January.

2.1.9 BCommHons programme in Economics and Mathematical Statistics

Credits
A minimum of 160 credits.

Specific Admission Requirements
Students have to be accepted for honours studies in both the Department of Economics (at least 60% average for Economics 3) and the Department of Statistics and Actuarial Science (at least 60% average for Mathematical Statistics 3).

Grade 12 Mathematics:
Matriculated before 2008: At least 70% (SG) or 50% (HG)
Matriculated in 2008: At least a 4 (50%)

Matriculated in 2009: At least a 5 (60%)
Matriculated after 2009: At least a 6 (70%)

Duration
Twelve months. Must be completed within three years. If not the compulsory modules must be repeated.

Programme Content
The programme comprises at least 52 credits (four modules) from Economics and 48 credits (four modules) from Mathematical Statistics. Two additional modules must be taken from Economics and/or Mathematical Statistics and 40 credits are earned from an assignment consisting of a statistical application in a field of economics, with joint supervision from both departments.

Please note that
the first semester of a year module is a requirement for continuing study in the second semester. The semester in which the modules are presented may change at short notice from year to year. Also see programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
56928	779	160	Honours programme in Economics and Mathematical Statistics (779)	Both

Compulsory modules (94 or 106 credits)

Code	Module	Credits	Module Name	Semester
11217	772	40	Research Assignment: Economics and Mathematical Statistics (statistical application on economic data)	Both
10595	771	12	Macroeconomics	Both
10605	771	12	Microeconomics	Both
10430	871	18	Econometrics or	Both
11267	872	18	Advanced Cross-section Econometrics or	Both
12528	872	18	Advanced Time Series Econometrics	Both
10598	714	12	Multivariate categorical data analysis A and	Both
10599	744	12	Multivariate categorical data analysis B or	2
10602	715	12	Multivariate statistical analysis A and	1
10603	745	12	Multivariate statistical analysis B or	2
65250	718	12	Stochastic Simulation	1

Elective modules in Economics

At least 10 credits and at most 38 credits. At most one of the Econometric modules above that is not chosen as the compulsory module may be taken as an elective module. All the modules are not necessarily offered every year.

Code	Module	Credits	Module Name	Semester
10436	771	10	Economic History	Both
10432	771	10	Economics of Education I	Both
10434	771	10	Economics of Technological Change	Both
10457	771	10	Financial Markets Analysis	Both
12228	771	10	Financial Economics	Both
11263	771	10	Industrial organisation	Both
64041	771	10	Institutional Economics	Both
10554	771	10	International Finance	Both
10555	771	10	International Trade Theory and Policy	Both
51861	771	10	Labour Economics	Both
64033	771	10	Monetary Economics	Both
59617	771	10	Environmental Economics	Both
10635	771	10	Development Economics	Both
11143	771	10	Public Economics	Both
10742	771	10	Applied Macroeconomics I	Both
10743	772	10	Applied Macroeconomics II	Both
10745	771	10	Applied Microeconomics I	Both
10746	771	10	Applied Microeconomics II	Both

Elective modules in Mathematical Statistics:
(With compulsory modules 714, 744 or 715, 745: at least 24 and at most 48 credits; with compulsory module 718: at least 36 and at most 60 credits)

Code	Module	Credits	Module Name	Semester
58777	741	12	Data mining	2
10598	714	12	Multivariate categorical data analysis A *	Both
10599	744	12	Multivariate categorical data analysis B *	2
10602	715	12	Multivariate statistical analysis A *	1
10603	745	12	Multivariate statistical analysis B *	2

10750	717	12	Time series analysis A	1
10751	747	12	Time series analysis B	2
65250	718	12	Stochastic Simulation *	1

*If not already taken as compulsory modules.

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a relatively large number of essays and an assignment.

Selection
Selection of students in accordance with the University's official selection policy may be unavoidable due to the limited number of students that can be accommodated in the programme.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
Middle January.

2.1.10 BCommHons (Financial Accounting) (ACCA)

Credits
A minimum of 120 credits.

Programme Description
Please note:
This programme is currently in abeyance and will be offered again once external accreditation at the Independent Regulatory Board for Auditors (IRBA) is finalised by the Association of Chartered Certified Accountants (ACCA).

Students that attain the BComm (Financial Accounting) degree **and** comply with the necessary admission requirements will be accommodated in the BCommHons (Management Accounting) programme. Contact the Department of Accounting for more information.

Specific Admission Requirements
A BComm (Financial Accounting) degree of Stellenbosch University with a final mark of at least 60% in Financial Accounting 389, Management Accounting 388, and Taxation 388; or

A BAcc or a BAccLLB degree from Stellenbosch University with a final mark of at least 60% in Management Accounting 378 and at least 55% in Financial Accounting 379 and Taxation 399.

Duration
Twelve months

Presentation
English and Afrikaans.

Programme module

Code	Module	Credits	Module Name	Semester
26883	788	120	BCommHons (Financial Accounting) (ACCA)	Both

See the programme outline below.

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
10495	785	24	Advanced Taxation Practice	Both
10500	781	28	Advanced Financial Accounting	Both
10710	783	24	Strategic Management Accounting	Both
10680	784	24	Risk and Information Management	Both
12953	786	20	Financial Accounting Research Project	Both

Assessment and Examination
Examinations are written in November. The 786 module is assessed as a research project.

Selection
Strictly according to admission requirements.

Application
Applications for a specific year must be received by 1 November of the previous year.

Programme Start Date
At the official commencement of classes.

2.1.11 BCommHons (Financial Analysis)

Credits
A minimum of 120 credits.

Specific Admission Requirements
A BComm (Management Sciences) degree with Investment Management as focal area from this University or another bachelor's degree that has been approved by Senate; and an average of 65% in the third-year Investment Management modules, as well as a pass mark for Financial Management 314 and 344.

All prospective postgraduate students and in particular students who graduate in other departments must consult the departmental website as there are both general and module-specific requirements for individual postgraduate modules.

Admission is also subject to attending a compulsory orientation programme during the week before the commencement of the official classes.

Programme Structure
A student for the BCommHons (Financial Analysis) degree has to obtain a minimum of 120 credits.

Duration
Twelve months

Notes
An information brochure is available on the Department's website at http://academic.sun.ac.za/business/.

Programme Content
See the programme outline below. More information on the content of the programme may also be found on the Department's website at http://academic.sun.ac.za/business/.

Programme module

Code	Module	Credits	Module Name	Semester
54682	778	120	BCommHons (Financial Analysis)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
12951	743	30	Research Assignment: Financial Analysis	Both
11141	711	18	Financial Derivative Instruments	1

44024	746	18	Property Investment and Finance	1
51047	713	18	Financial Management	1
11144	745	18	Portfolio Management	2
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2

Assessment and Examination
Examinations take place at the end of the first semester in June and at the end of the second semester in November.

Selection
Only a limited number of applicants may be accommodated in the programme. Selection may therefore take place in accordance with the University's overall selection policy.

Application
Applications for a particular year must be received before the end of August of the previous year.

Programme Start Date
One week before the official commencement of lectures.

2.1.12 BCommHons (Financial Risk Management)

Credits
A minimum of 120 credits.

Specific Admission Requirements
A BComm degree with Financial Risk Management, Financial Mathematics and Mathematical Statistics as third-year subjects with an average mark of at least 60% for Financial Risk Management in the third year.

Duration
Twelve months

Programme Content
See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
54690	778	120	BCommHons (Financial Risk Management)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
11218	793	30	Research Assignment: Financial Risk Management	Both
10459	731	12	Financial Risk Management A	1
10460	761	12	Financial Risk Management B	2
10660	733	12	Portfolio management theory A	1
10661	763	12	Portfolio management theory B	2
11166	734	6	Practical financial modelling	1
65250	718	12	Stochastic Simulation	1
10751	747	12	Time series analysis B	2

Elective modules
A selection from the modules below to add up to at least 120 credits together with the compulsory modules.

Code	Module	Credits	Module Name	Semester
11164	732	12	Financial Mathematical Statistics A	1
11165	762	12	Financial Mathematical Statistics B	2

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of various practical assignments.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

2.1.13 BCommHons (Human Resource Management)

Credits
A total of 120 credits.

Programme Description
The BCommHons (Human Resource Management) is offered on a full-time basis.

Programme Outcomes
First meeting
The first meeting for full-time honours students is one week before the commencement of classes for undergraduate students, at 08:30 in the Honours room of the Industrial Psychology building.

Pass requirements
All the required modules (120 credits in total) have to be passed with a mark of at least 50% in each module, although the average for the modules offered for a degree programme will represent the student's final mark.

Recognition period of honours modules
Recognition of honours modules for graduation purposes usually expires after five years, unless written permission has been obtained to extend the recognition period.

Registration as Chartered Human Resource Practitioner
The programme BCommHons (Human Resource Management) could, after approved practical work, lead to registration with the South African Board for People Practices (SABPP) as chartered human resource practitioner. Detailed information is available on the SABPP's website (http://www.sabpp.co.za).

Specific Admission Requirements
A recognised bachelor's degree with Industrial Psychology as major, as well as undergraduate exposure to all Industrial Psychology modules, is required, among other things, for the BCommHons (Human Resource Management) degree. Students who have a bachelor's degree without Industrial Psychology as major must first pass all the required undergraduate Industrial Psychology modules as a special student, or be granted exemption from those subjects if comparable modules have been passed elsewhere, before they will be considered for selection for the BCommHons (Human Resource Management) degree. An average of 60% for the Industrial Psychology final-year modules is required for admission to the degree.

Other Requirements
To qualify for admission to BCommHons (Human Resource Management), the following modules offered by the Department of Industrial Psychology are required:

Industrial Psychology 112 or 114, 152 and 162, Industrial Psychology 214, 224 and 244, Industrial Psychology 314, 324 and 348.

Duration
Full-time BCommHons (Human Resource Management): One year

Presentation
English.

Programme module

Code	Module	Credits	Module Name	Semester
48054	778	120	BCommHons (Human Resource Management) – Full-time (778)	Both

Special modules presented

Code	Module	Credits	Module Name	Semester
11904	721	20	Consumer Psychology: External *	1
11914	751	20	Consumer Psychology: Internal *	2

**Pass prerequisite Industrial Psychology 224*

Compulsory modules

Code	Module	Credits	Module Name	Semester
12943	773	30	Honours Research Assignment (HRM)	Both
10388	781	12	Industrial Relations Theory & Practice (Perspectives and Parties)	Both
10389	782	12	Industrial Relations Theory & Practice (Processes)	Both
51829	783	12	Labour Law	Both
12942	775	12	Organisational Psychology: Contemporary Challenges	Both
51764	776	12	Research Methodology	Both
10716	784	12	Strategic Human Resource Development	Both
11915	785	12	Strategic Human Resources Management I	Both
11917	786	6	Strategic Human Resources Management II	Both

Exit Criteria
Compulsory vacation work
Full-time students should do compulsory job shadowing for five working days in an approved industrial organisation before admission to either one of the honours programmes. Students should write a draft report about the work experience (in English) before the commencing of the programme. See the departmental website for further information.

Assessment and Examination
Students will be expected to obtain a class mark and write a written examination per module.

Selection
A limited number of students are selected on the basis of academic performance and other selection requirements. An average achievement of 60% is required in the undergraduate final year Industrial Psychology modules for admission to the honours programme in Human Resource Management. The students that have been selected must inform the Department in writing before the end of the second week in December whether they will be proceeding with the programme.

Application
Students should apply in writing before 31 October of the year prior to the start of their studies on the official application form of the University as well as on the specific

departmental application forms obtainable from the departmental website (http://www.sun.ac.za/industrial_psychology/). Late applications will be considered in exceptional cases only. No applications for admission to the honours programme during the second semester will be considered.

Enquiries
For more information regarding postgraduate programmes offered by the Department of Industrial Psychology, visit our website at http://www.sun.ac.za/industrial_psychology/ or contact 021 808 3005.

2.1.14 BCommHons (Industrial Psychology)

Credits
A total of 120 credits

Programme Description
Registration as psychometrist (independent practice)

In terms of the requirements of the Professional Board for Psychology of the Health Professions Council of South Africa (HPCSA), a person will be eligible for statutory registration as a psychometrist (independent practice) after having completed the BComm (Industrial Psychology) (previous programme name BComm (Psych)) and BCommHons (Industrial Psychology) (previous programme name BCommHons (Psych)) degrees, having completed the approved BIndustrial Psychology equivalence programme and after having successfully written a professional board examination set by the Psychometric Committee of the Professional Board for Psychology of the HPCSA. Additional detailed information is available on the website of the HPCSA (http://www.hpcsa.co.za).

Detailed information on the prerequisites for statutory registration as an industrial psychologist is available on the website of the HPCSA (http://www.hpcsa.co.za).

The Department offers the BCommHons (Psych) on a full-time basis.

Programme Outcomes
First meeting
The first meeting for full-time honours students is one week before the commencement of classes for undergraduate students, at 08:30 in the Honours room of the Industrial Psychology building.

Pass requirements
All the required modules (120 credits in total) have to be passed with a mark of at least 50% in each module, although the average for the modules offered for a degree programme will represent the student's final mark.

Recognition period of honours modules
Recognition of honours modules for graduation purposes usually expires after five years, unless written permission has been obtained to extend the recognition period.

Specific Admission Requirements
The BComm (Industrial Psychology) (previous programme name BComm (Psych)) qualification, or an equivalent bachelor's degree which leads to statutory registration as psychometrist (independent practice) and industrial psychologist, is required for admission to the honours degree programme in Industrial Psychology (BCommHons (Industrial Psychology)). Alternatively, a BA degree with Psychology and Industrial Psychology up to third-year level is required, or a BComm qualification with Industrial Psychology and modules from Business Management up to third-year level. In both of these last two instances, the 60% requirement for the Industrial Psychology final-year modules is still valid.

The following Business Management modules at second-year level are recommended: Financial Management 214, Investment Management 254 and Commercial Law (Commerce) 282 or 283. Marketing Management 214, 244 as well as Entrepreneurship and Innovation Management 214, 244 are recommended as alternative elective modules.

Recommended elective modules at the third-year level are: Financial Management 314, 324, 344 and 354. Marketing Management 314, 324, 344, 354 as well as Entrepreneurship and Innovation Management 318, 348 are recommended as alternative elective modules.

Practicals and seminars at second- and third-year level are presented during scheduled double periods.

Other Requirements
Students with a bachelor's degree without Industrial Psychology as major has to pass, as a special student, all outstanding undergraduate Industrial Psychology modules, or obtain exemption from it if comparable modules have been passed elsewhere. The following modules offered by the Department of Industrial Psychology are required: Industrial Psychology 112 or 114, 152 and 162, Industrial Psychology 214, 224 and 244, Industrial Psychology 314, 324 and 348.

Duration
Full-time BCommHons (Psych): 1 year

Presentation
English.

Programme modules

Code	Module	Credits	Module Name	Semester
10553	779	120	BCommHons (Industrial Psychology) (779)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
10387	772	12	Labour Relations and Legislation	Both
10403	774	12	Occupational and Career Psychology	Both
11344	773	30	Hons Research Assignment: Industrial Psychology	Both
51764	776	12	Research Methodology	Both
12942	775	12	Organisational Psychology: Contemporary Challenges	Both
10665	776	12	Psychometrics: Measure Theory Test Construction and Decision Making	Both
11915	785	12	Strategic Human Resources Management I	Both
11917	786	6	Strategic Human Resources Management II	Both
10744	771	12	Applied Psychological and Performance Assessment	Both

Compulsory vacation work
Full-time students should do compulsory job shadowing for five working days in an approved industrial organisation before admission to either one of the honours programmes. Students should write a draft report about the work experience (in English) before the commencement of the programme. See the departmental website (http://www.sun.ac.za/industrial_psychology/) for further information.

Assessment and Examination
Students will be expected to obtain a class mark and write a written examination per module.

Selection
A limited number of students are selected on the basis of academic performance and other selection requirements. An average achievement of 60% is required in the undergraduate final-year Industrial Psychology modules for admission to the honours programme. The students that have been selected must inform the Department in writing before the end of the second week in December whether they will be proceeding with the programme.

Application
Students should apply in writing before 31 October of the year prior to the start of their studies on the official application form of the University, as well as on the specific departmental application form obtainable from the departmental website (http://www.sun.ac.za/industrial_psychology/). Late applications will be considered in exceptional cases only. No applications for admission to the honours programme during the second semester will be considered.

Enquiries
For more information regarding postgraduate programmes offered by the Department of Industrial Psychology, visit our website at http://www.sun.ac.za/industrial_psychology/ or contact 021 808 3005.

2.1.15 BCommHons (Logistics Management)

Credits
120 credits

Specific Admission Requirements
To be admitted to the BCommHons programme, a student must be in possession of the BComm degree, or a bachelor's degree other than a BComm degree, and must have passed Logistics Management at third-year level with an average of at least 60%.

Duration
Twelve months (full-time)

Presentation
Some modules will be presented in English.

Programme Content
A student taking Logistics Management 778 must earn at least 120 credits as set out below. A maximum of 30 credits may be obtained from a related and approved field of study. Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available. At least one of the elective modules must be of an analytical/quantitative nature.

Programme module

Code	Module	Credits	Module Name	Semester
50407	778	120	BCommHons (Logistics Management)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
59137	743	15	Physical Distribution Management	2
10911	723	15	Introductory forecasting	1
11047	773	30	Research Assignment: Logistics Management	Both
11136	716	15	Procurement and inventory management	1

Elective modules (at least 45 credits)

Code	Module	Credits	Module Name	Semester
11275	842	15	Air Transport Economics	2
11571	714	15	Capita Selecta (Logistics Management)	1
11571	744	15	Capita Selecta (Logistics Management)	2
11909	813	15	Enterprise Resource Planning	1
10933	853	15	Forecasting	2
51659	715	15	Industrial Relations	1
10912	773	15	Intermodal transport and logistics	2
59129	842	15	International Logistics	1
10909	722	15	Introductory optimisation	1
10924	852	15	Optimisation	2
12993	773	15	Port Authority	2
59145	744	15	Road Transport Management	2
12701	813	15	Supply chain process framework and benchmarking	1
11135	742	15	Tax and financial analysis aspects	2
12994	774	15	Terminal Operations	1
11137	717	15	Transport insurance	1

Assessment and Examination

Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a number of essays, assignments and a research seminar.

Selection

Students are selected for this programme primarily based on their academic performance. Only a limited number of students can be accommodated in the programme. Selection takes place in accordance with the University's overall admission and selection policy.

Application

Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date

One week before the official commencement of lectures.

Enquiries

More information regarding the postgraduate programmes offered by the Department of Logistics is available on the website www.sun.ac.za/logistics, or contact 021 808 2249.

2.1.16 BCommHons (Management Accounting)

Credits

A minimum of 120 credits.

Programme Description

The training of chartered management accountants

The internationally recognised professional management accounting qualification of chartered management accountant is awarded on passing the qualifying examinations as set by the Institute of Chartered Management Accountants, with its head office in London, and obtaining the necessary practical experience. The BComm (Management Accounting) and BCommHons (Management Accounting) programmes, as offered by this University, are recognised by the Institute of Chartered Management Accountants.

Specific Admission Requirements
A BComm (Management Accounting) or BComm (Financial Accounting) degree obtained from Stellenbosch University or an equivalent qualification from another university and a final mark of at least 60% in Management Accounting 388 and Financial Accounting 389;

or
A BAcc or BAccLLB obtained from Stellenbosch University and a final mark of at least 60% in Management Accounting 378 and a final mark of at least 55% in Financial Accounting 379.

Duration
Twelve months.

Presentation
English or Afrikaans.

Programme module

Code	Module	Credits	Module Name	Semester
10812	798	120	BCommHons (Management Accounting)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11159	786	20	Management Accounting Research Assignment	Both
10496	715	12	Advanced Management Accounting	1
10500	716	16	Advanced Financial Accounting	1
10680	784	24	Risk and Information Management	Both
10710	783	24	Strategic Management Accounting	Both
10712	782	24	Strategic Financial Management	Both

Assessment and Examination
Examinations are written at the end of the first semester and at the end of the second semester. The examination results are supplemented by class tests and assignments, which are assessed on a continuous basis. The 786 module is assessed as a research project.

Application
Applications for a specific year must be received not later than 1 November of the preceding year.

Programme Start Date
At the official commencement of classes.

2.1.17 BCommHons and BScHons (Mathematical Statistics)

Credits
A minimum of 120 credits.

Specific Admission Requirements
A bachelor's degree with an average mark of at least 60% for Mathematical Statistics 3.

Duration
Twelve months

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

A compulsory assignment under supervision must be submitted for examination. Permission may be granted to obtain at the most 12 credits from suitable postgraduate modules offered by other departments.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
22853	778	120	Honours programme in Mathematical Statistics	Both

Compulsory modules (36 credits)

Code	Module	Credits	Module Name	Semester
10547	723	6	Introduction to S-plus/R	1
11228	791	30	Research Assignment: Mathematical Statistics	Both

Elective modules (at least 84 credits)

Code	Module	Credits	Module Name	Semester
10394	711	12	Bayesian statistics	1
10408	712	12	Biostatistics	1
11922	724	12	Capita Selecta in Mathematical Statistics A	1
11923	754	12	Capita Selecta in Mathematical Statistics B	2
58777	741	12	Data mining	2
10440	713	12	Experimental design	1
10507	719	12	Advanced inference A	1
10508	749	12	Advanced inference B	2
10569	753	12	Consultation practice	2
10598	714	12	Multivariate categorical data analysis A	Both
10599	744	12	Multivariate categorical data analysis B	2
10602	715	12	Multivariate statistical analysis A	1
10603	745	12	Multivariate statistical analysis B	2
10628	743	12	Non-parametric statistics	2
10636	746	12	Survival analysis	2
10701	716	12	Statistical quality control and -improvement	1
10705	742	12	Sampling techniques	2
65250	718	12	Stochastic Simulation	1
10750	717	12	Time series analysis A	1
10751	747	12	Time series analysis B	2

Assessment and Examination

Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of various practical projects.

Application

Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date

One and a half weeks prior to the general commencement of classes.

2.1.18 BCommHons (Operations Research)

Specific Admission Requirements
To be admitted to the BCommHons (Operations Research) programme a student must be in possession of a bachelor's degree and have passed Operations Research with an average of at least 60% at third-year level, or a qualification considered by the Department of Logistics to be of equal standing.

Programme Content
A student who enrols for Operations Research 778 must earn at least 120 credits as set out below. Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme module

Code	Module	Credits	Module Name	Semester
55336	778	120	BCommHons (Operations Research)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
10906	712	15	Advanced linear programming	1
10932	742	15	Inventory control	2
11047	774	30	Research Assignment: Operational Research	Both

Elective modules (at least 60 or 75 credits)

Code	Module	Credits	Module Name	Semester
46744	812	15	Decision Making	2
64009	714	15	Capita Selecta (Operations Research)	1
64009	744	15	Capita Selecta (Operations Research)	2
10905	813	15	Financial investment planning	1
10933	853	15	Forecasting	2
10931	843	15	Game theory	1
10925	742	15	Location of facilities	2
12318	713	15	Metaheuristics	1
11907	886	15	Methods of Operational Research	2
10926	814	15	Scheduling	2

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One week before the official commencement of lectures.

Enquiries
More information regarding the postgraduate programmes offered by the Department of Logistics is available on the website www.sun.ac.za/logistics, or contact 021 808 2249.

2.1.19 BCommHons (Public and Development Management)

Credits
A minimum of 120 credits.

Specific Admission Requirements
- A BA, BAdmin, BEcon or BComm degree in Public and Development Management with an acceptable study record, or

- Any university degree/BTech degree/four-year tertiary diploma with an acceptable study record, appropriate work exposure and the passing of five NQF level 6 admission modules, or
- Any three-year tertiary diploma with an acceptable study record, at least five years' appropriate work exposure, meeting the ARPL (Assessment and Recognition of Prior Learning) policy requirements of the University, according to which the equivalent of 120 credits at NQF level 6 are assessed and recognised, as well as the passing of five NQF level 6 admission modules.

Programme Structure
This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of one to two weeks of lectures at the campus. Presentation by means of interactive telematic education requires students to gather for lectures at least 12 times per year for a whole day at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Duration
The programme is presented over one year by a combination of modular (blocked session of lectures for one to two weeks) and interactive telematic education.

Presentation
English, though students may write assignments and examinations in Afrikaans if preferred.

Presentation Notes
The medium of instruction is English, but students are free to do assignments and write examinations in Afrikaans.

Notes
In consultation with the Director, School of Public Leadership, students may substitute any module of nine credits with a postgraduate module of equivalent credit value from another major.

Programme Content
A brochure is available from the Course Administrator.
Tel.: 021 918 4192; E-mail: enquiry@spl.sun.ac.za

NQF Level 7: Admission modules
- Orientation to Research Methods and Writing Skills for Public and Development Management
- Orientation to Public Management
- Orientation to Development
- Orientation to Public Policy
- Computer Skills in Public and Development Management

NQF Level 8: Performance modules (120)
See details below.

Programme module

Code	Module	Credits	Module Name	Semester
48003	778	120	BAHons (Public and Development Management) and BCommHons (Public and Development Management) and BPAHons	Both

Code	Module	Credits	Module Name	Semester
60674	761	9	Financial Management and Cost Accounting	2
60682	761	9	Information and Communication Technology for Management	1
58661	761	9	Leadership and Change Management	2
59250	761	9	People Management	1
51993	761	9	Project Management	2
12529	761	9	Organisation Design	2
12586	761	9	Governance: Economics	1
12587	761	9	Governance: Politics or	1
11648	761	9	Local Governance	1
12229	761	9	Public Policy Management	2
58718	761	9	Sustainable Development	1
11345	761	30	Research Assignment: Public and Development Management	Both

Assessment and Examination
Examination writing is decentralised and takes place in the different study centres.

Assignments, case studies and group projects in the course of each semester and written examinations at the end of each term.
A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (cum laude). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (cum laude).

Selection
Due to the limited number of students that can be accommodated yearly selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications must be received by the end of October of the previous year.

Programme Start Date
Normally middle January.

Enquiries
Enquiries regarding the programme content, duration, study fees and application procedure can be addressed to the School of Public Leadership, Stellenbosch University, PO Box 610, Bellville 7535.
Tel.: 021 918 4192; E-mail: enquiry@spl.sun.ac.za

2.1.20 BCommHons (Quantitative Management)

Specific Admission Requirements
To be admitted to the BCommHons programme, a student must be in possession of the BComm degree, or a bachelor's degree other than a BComm degree, and must have passed Quantitative Management at third-year level with an average of at least 60%, or a qualification considered by the Department of Logistics to be of equal standing.

Programme Content
A student taking Quantitative Management 778 must earn at least 120 credits as set out below.

Programme module

Code	Module	Credits	Module Name	Semester
58351	778	120	BCommHons Quantitative Management	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
10911	723	15	Introductory forecasting	1
12721	741	15	Methods of Quantitative Management	2
12722	711	15	Quantitative Modelling	1
11047	772	30	Research Assignment: Quantitative Management	Both

Elective modules (at least 45 credits, of which a maximum of 30 credits of quantitative-oriented modules can be selected from other departments)

Code	Module	Credits	Module Name	Semester
12723	712	15	Capita Selecta (Quantitative Management)	1
12723	742	15	Capita Selecta (Quantitative Management)	2
11909	813	15	Enterprise Resource Planning	1
10933	853	15	Forecasting	2
59137	743	15	Physical Distribution Management	2
11136	716	15	Procurement and inventory management	1
59145	744	15	Road Transport Management	2
12701	813	15	Supply chain process framework and benchmarking	1
11135	742	15	Tax and financial analysis aspects	2

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a number of essays, assignments and a research seminar.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One week before the official commencement of lectures

Enquiries
More information regarding the postgraduate programmes offered by the Department of Logistics is available on the website www.sun.ac.za/logistics, or contact 021 808 2249.

2.1.21 BCommHons (Statistics)

Credits
A minimum of 120 credits.

Specific Admission Requirements
A bachelor's degree with an average mark of at least 60% for Statistics 3.

Duration
Twelve months

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

A compulsory assignment under supervision must be submitted for examination.

See programme outline below. Permission may be granted to obtain at the most 12 credits from suitable postgraduate modules offered by other departments.

Programme module

Code	Module	Credits	Module Name	Semester
19658	778	120	BCommHons (Statistics)	Both

Compulsory module (36 credits)

Code	Module	Credits	Module Name	Semester
10547	723	6	Introduction to S-plus/R	1
11226	792	30	Research Assignment: Statistics	Both

Elective modules (at least 84 credits)

Code	Module	Credits	Module Name	Semester
10408	712	12	Biostatistics	1
11920	725	12	Capita Selecta in Statistics A	1
11921	755	12	Capita Selecta in Statistics B	2
58777	741	12	Data mining	2
10440	713	12	Experimental design	1
10569	753	12	Consultation practice	2
10600	721	12	Multivariate methods in statistics A	1
10601	751	12	Multivariate methods in statistics B	2
10628	743	12	Non-parametric statistics	2
10701	716	12	Statistical quality control and - improvement	1
10705	742	12	Sampling techniques	2
65242	736	12	Stochastic Modelling	1
10748	722	12	Applied time series analysis A	1
10749	752	12	Applied time series analysis B	2
65269	746	12	Applied Stochastic Simulation	2

Assessment and Examination

Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of various practical projects.

Application

Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date

One and a half weeks prior to the general commencement of classes.

2.1.22 BCommHons (Transport Economics)

Specific Admission Requirements

To be admitted to the BCommHons programme in Transport Economics, a student must be in possession of the BComm or another bachelor's degree subject to the approval of Senate, and must have passed Transport Economics at third-year level, with an average final mark of at least 60%.

Programme Content

A student who takes Transport Economics 778 must earn at least 120 credits as set out below.

Programme module

Code	Module	Credits	Module Name	Semester
21008	778	120	BCommHons (Transport Economics)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
59102	715	15	Competition and Regulation	1
10909	722	15	Introductory optimisation	1
10911	723	15	Introductory forecasting	1
11047	775	30	Research Assignment: Transport Economics	Both
59153	742	15	Urban Transport Economics	2

Elective modules (at least 30 credits)

Code	Module	Credits	Module Name	Semester
11275	842	15	Air Transport Economics	2
64017	714	15	Capita Selecta (Transport Economics)	1
64017	744	15	Capita Selecta (Transport Economics)	2
10904	812	15	Economic investment planning	1
10933	853	15	Forecasting	2
10924	852	15	Optimisation	2
59145	744	15	Road Transport Management	2
10930	771	15	Shipping economics and finance	2

Selection
The number of placements is limited to the teaching capacity of the Department of Logistics. Selection takes place in order of academic performance. Note that the enrolment for certain modules is subject to the fulfilment of specific prerequisites.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One week before the official commencement of lectures.

Enquiries
More information regarding the postgraduate programmes offered by the Department of Logistics is available on the website www.sun.ac.za/logistics or contact 021 808 2249.

2.2 HonsBA

2.2.1 BAHons (Public Administration)

Credits
A minimum of 120 credits.

Specific Admission Requirements
1. A BA degree in Public and Development Management with an acceptable study record, or
2. Any university degree/BTech degree/four-year tertiary diploma with an acceptable study record, appropriate work exposure and the passing of five NQF level 7 admission modules, or
3. Any three-year tertiary diploma with an acceptable study record, at least five years' appropriate work exposure, meeting the ARPL (Assessment and Recognition of Prior Learning) policy requirements of the University, according to which the equivalent of

120 credits at NQF level 7 are assessed and recognised, as well as the passing of five NQF level 7 admission modules.

Programme Structure
This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of two weeks of lectures at the campus. Presentation by means of interactive telematic education requires students to gather for lectures at least twelve times per year for a whole day at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa and Namibia. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Duration
The programme is presented over one year by a combination of modular (blocked session of lectures for two weeks) and interactive telematic education.

Presentation
The medium of instruction is English, but students are free to do assignments and write examinations in Afrikaans.

Presentation Notes
Notes
In consultation with the Director: School of Public Leadership, students may substitute any module of nine credits with a postgraduate module of equivalent credit value from another major.

Programme Content
A brochure is available from the Course Administrator.
Tel.: (021) 918 4192; E-mail: enquiry@spl.sun.ac.za

NQF Level 7: Admission modules
- Orientation to Research Methods and Writing Skills for Public and Development Management
- Orientation to Public Management
- Orientation to Development
- Orientation to Public Policy
- Computer Skills in Public and Development Management

NQF Level 8: Performance modules (120)
See details below.

Programme module

Code	Module	Credits	Module Name	Semester
48003	778	120	BAHons (Public and Development Management) and BCommHons (Public and Development Management) and BPAHons	Both

Code	Module	Credits	Module Name	Semester
60674	761	9	Financial Management and Cost Accounting	2
60682	761	9	Information and Communication Technology for Management	1
58661	761	9	Leadership and Change Management	2
59250	761	9	People Management	1

51993	761	9	Project Management	2
12587	761	9	Governance: Politics or	1
11648	761	9	Local Governance	1
12229	761	9	Public Policy Management	2
58718	761	9	Sustainable Development	1
57398	761	30	Research Assignment	Both
12586	761	9	Governance: Economics	1
12529	761	9	Organisation Design	2

Assessment and Examination
Examination writing is decentralised and takes place in the different study centres.

Assignments, case studies and group projects in the course of each semester and written examinations at the end of each term.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection
Due to the limited number of students that can be accommodated yearly selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications must be received by the end of October of the previous year.

Programme Start Date
Normally end of January.

Enquiries
Enquiries regarding the programme content, duration, study fees and application procedure can be addressed to the School of Public Leadership, Stellenbosch University, PO Box 610, Bellville 7535.
Tel.: 021 918 4192; E-mail: enquiry@spl.sun.ac.za

2.3 HonsB

2.3.1 BPubAdminHons

Credits
A minimum of 120 credits.

Specific Admission Requirements
1. A BAdmin degree in Public and Development Management with an acceptable study record, or
2. Any university degree/BTech degree/four-year tertiary diploma with an acceptable study record, appropriate work exposure and the passing of five NQF level 7 admission modules, or
3. Any three-year tertiary diploma with an acceptable study record, at least five years appropriate work exposure, meeting the ARPL (Assessment and Recognition of Prior Learning) policy requirements of the University, according to which the equivalent of 120 credits at NQF level 7 are assessed and recognised, as well as the passing of five NQF level 7 admission modules.

Programme Structure
This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of two

weeks of lectures at the campus. Presentation by means of interactive telematic education requires students to gather for lectures at least twelve times per year for a whole day at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa and Namibia. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Duration
The programme is presented over one year by a combination of modular (blocked session of lectures for two weeks) and interactive telematic education.

Presentation
The medium of instruction is English, but students are free to do assignments and write examinations in Afrikaans.

Notes
In consultation with the Director: School of Public Leadership, students may substitute any module of nine credits with a postgraduate module of equivalent credit value from another major.

Programme Content
A brochure is available from the Course Administrator
Tel.: 021 918 4192; E-mail: enquiry@spl.sun.ac.za

NQF Level 7: Admission modules
- Orientation to Research Methods and Writing Skills for Public and Development Management
- Orientation to Public Management
- Orientation to Development
- Orientation to Public Policy
- Computer Skills in Public and Development Management

NQF Level 8: Performance modules (120)
See details below.

Programme module

Code	Module	Credits	Module Name	Semester
48003	788	120	Public and development management	Both

Code	Module	Credits	Module Name	Semester
60674	761	9	Financial Management and Cost Accounting	2
60682	761	9	Information and Communication Technology for Management	1
58661	761	9	Leadership and Change Management	2
59250	761	9	People Management	1
51993	761	9	Project Management	2
12587	761	9	Governance: Politics or	1
11648	761	9	Local Governance	1
12229	761	9	Public Policy Management	2
58718	761	9	Sustainable Development	1
57398	761	30	Research Assignment	Both
12586	761	9	Governance: Economics	1
12529	761	9	Organisation Design	2

Assessment and Examination
Examination writing is decentralised and takes place in the different study centres.

Assignments, case studies and group projects in the course of each semester and written examinations at the end of each term.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection
Due to the limited number of students that can be accommodated yearly selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications must be received by the end of October of the previous year.

Programme Start Date
Normally end of January.

Enquiries
Enquiries regarding the programme content, duration, study fees and application procedure can be addressed to the School of Public Leadership, Stellenbosch University, PO Box 610, Bellville 7535.
Tel.: 021 918 4192; E-mail: enquiry@spl.sun.ac.za

2.4 BAccHons

2.4.1 BAccHons

Credits
A minimum of 120 credits.

Programme Description
The training of chartered accountants
The South African Institute of Chartered Accountants (SAICA) controls the chartered accounting profession in the RSA. To qualify as a chartered accountant a candidate must pass both the *Initial Test of Competence and the Assessment of Professional Competence* of SAICA and complete a three-year clerkship (after obtaining a bachelor's degree) at an approved training organisation.

To gain admission to the *Initial Test of Competence*, which is conducted by SAICA, a candidate must obtain the degree BAccHons at this University or another degree or diploma that has been approved for this purpose.

To gain admission to *the Assessment of Professional Competence*, which is conducted by SAICA, a candidate must meet the following requirements:
- Successful completion of the Initial Test of Competence.
- Successful completion of a preparatory course aimed at the Assessment of Professional Competence at an approved educational organisation .
- Completion of 18 months' clerkship at an approved training organisation.

Specific Admission Requirements
Weighted average performance mark of at least 60% for the following modules in the BAcc or BAccLLB programme obtained at this University: Financial Accounting 379, Taxation 399, Management Accounting 378 and Auditing 378. The following weightings are used in the calculation of the weighted average performance mark: Financial Accounting 4; Taxation, Management Accounting and Auditing each 3.

OR

Weighted average performance mark of at least 55% for the following modules in the BAcc or BAccLLB programme obtained at this University: Financial Accounting 379, Taxation 399, Management Accounting 378 and Auditing 378 **AND** a performance mark of at least 55% for Financial Accounting 379. The following weightings are used in the calculation of the weighted average performance mark: Financial Accounting 4; Taxation, Management Accounting and Auditing each 3.

Specific admission requirements for students who obtained degrees at other universities that are equivalent to BAcc or BAccLLB are available on request from the Department.

Duration
Twelve months.

Presentation
Afrikaans.

Programme Content
Integrated presentation of the following Accounting subject areas:

- Auditing, Regulation and Information Systems
- Financial Accounting
- Financial Management
- Management Accounting
- Taxation

Programme module

Code	Module	Credits	Module Name	Semester
18163	778	120	Accounting	Both

Also see the programme outline below.

Compulsory module

Code	Module	Credits	Module Name	Semester
10473	771	120	Integrated applications of accountancy subjects	Both

Assessment and Examination
Examinations are written in November. The final performance mark is supplemented by class tests and assignments (where applicable), which are assessed on a continuous basis.

Selection
Strictly according to admission requirements.

Application
Applications for a specific year must be received by 31 October of the previous year.

Programme Start Date
At the official commencement of classes.

3. MASTERS PROGRAMMES

3.1 MComm: Admission requirements

Admission of students in possession of an honours degree

The MComm degree may be conferred upon students who –

- are in possession of a BCommHons or BEconHons degree from this University or another honours degree approved – upon written application – for this purpose by Senate or the Executive Committee acting on behalf of Senate and who have been admitted to the MComm or MEcon programme;
- have followed an approved field of research and/or advanced study of at least one year after completion of the aforementioned BCommHons or BEconHons degree or other honours degree at this University or other place approved by Senate; and
- have completed supplementary work as prescribed by the particular lecturer and delivered a satisfactory paper or satisfactory assignments as prescribed by the particular lecturer, and passed the prescribed examination in the required number of fields of study.

Admission of students in possession of a bachelor's degree or other qualification

The MComm or MEcon degree may be conferred upon students who –

- are in possession of a BComm, BEcon, BPublMan or BLog degree from this University or another bachelor's degree approved for this purpose by Senate, or have in another manner achieved a standard or competency in their specific field of study judged by Senate to be adequate, and who, on written application, have been admitted to the MComm or MEcon programme by Senate, or by the Executive Committee acting on behalf of Senate;
- have followed an approved curriculum of research and/or advanced study of at least two years (after receiving said BComm, BEcon, BPublMan, BLog degree or other bachelor's degree or after achieving the abovementioned standard of competence), which may include a period of study or research of at most one year at another place recognised by Senate; and
- have passed the prescribed examination and delivered a satisfactory paper or satisfactory assignments as prescribed by the particular lecturers and passed the required number of credits in the prescribed examinations.

Note

Students who have not completed Statistical Methods 176 or Mathematical Statistics 214 as part of their bachelor's degree are required to take Statistical Methods 176 before said master's degree in Economics or Logistics Management or Logistical Analysis or Business Management or Transport Economics can be awarded.

3.2 MComm

3.2.1 MComm (Actuarial Science) – Thesis option (879) and Coursework option (889)

Credits
180 credits

Programme Description
The Master's programme is suited to students who have completed an Honours degree in Actuarial Science and who are embarking on the profession's Fellowship examinations having been exempted from (or passed) all of the profession's earlier examinations.

Specific Admission Requirements
An Honours degree in Actuarial Science or Mathematical Statistics;

Passes in university modules equivalent to all eight of the foundation and intermediate technical subjects of the Actuarial Society of South Africa (or the core technical subjects (CT1–CT8) of the Institute and Faculty of Actuaries); and

Exemptions from (or passes in the profession's examinations for):

- at least seven of the foundation and intermediate technical examinations of the Actuarial Society of South Africa (or the core technical examinations (CT1–CT8) of the Institute and Faculty of Actuaries); and
- the Actuarial Risk Management (A301/CA1) examination or one of the Fellowship Principles examinations of the Actuarial Society of South Africa (or one of the specialist technical examinations of the Institute and Faculty of Actuaries).

Programme Content
At least 180 credits must be completed from the list of compulsory and elective modules below.

Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme modules

Code	Module	Credits	Module Name	Semester
43214	879	180	MComm (Actuarial Science) Thesis option (879) or	Both
43214	889	180	MComm (Actuarial Science) Coursework option (889)	Both

Compulsory module for the coursework option

Code	Module	Credits	Module Name	Semester
11170	895	60	Actuarial Science Research Project	Both

Compulsory module for the thesis option

Code	Module	Credits	Module Name	Semester
11171	896	120	Actuarial Science Thesis	Both

Elective modules
For the coursework option: 120 credits; for the thesis option: 60 credits

Code	Module	Credits	Module Name	Semester
10368	811	40	Health and Care Technical (F101)	1
10372	812	40	Life Insurance Technical (F102)	1
10360	843	40	General Insurance Technical (F103)	2
10376	814	40	Pensions Technical (F104)	1
10364	845	40	Finance and Investment Technical (F105)	2
10365	846	40	Finance and Investment Technical (ST6)	2

10369	881	60	Health and Care Applications (F201)	Both
10373	882	60	Life Insurance Applications (F202)	Both
10361	883	60	General Insurance Applications (F203)	Both
10377	884	60	Pensions Applications (F204)	Both
10366	885	60	Investments Applications (F205)	Both
10362	886	60	Finance Applications (SA5)	Both

3.2.2 MComm (Business Management) – Thesis option (879)

Credits
180 credits

Specific Admission Requirements
BCommHons or another honours degree (with main subject Business Management).

Note
Information for prospective postgraduate students is available on the Department's website at http://academic.sun.ac.za/business/.

Programme module

Code	Module	Credits	Module Name	Semester
48550	879	180	MComm Business Management Thesis 879 option – 180 credits	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11239	828	180	Thesis: Business Management	Both

3.2.3 MComm (Computer Auditing)

Credits
A minimum of 180 credits.

Programme Description
Please note: This programme is only presented if an acceptable minimum number of applications are received in a particular year. If not, applications are transferred to the next year.

Specific Admission Requirements
A BAccHons degree or Postgraduate Diploma in Accounting (after attainment of a recognised bachelor's degree) or an equivalent qualification from another university and registration as Chartered Accountant (SA) with the South African Institute of Chartered Accountants, or an equivalent qualification plus any other preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
Twenty-four months.

Presentation
Afrikaans or English.

Programme Content
Audit objectives, computer auditing techniques, control frameworks and risk, internet-centric environments, hardware and software components, project management, computer security, IT operations, e-commerce, data warehouses, packages and systems compromise.

An assignment or article publishable in an accredited journal.

Students are required to attend a writing skills workshop about the writing of research proposals, presented by the Language Centre.

Programme module

Code	Module	Credits	Module Name	Semester
56839	899	180	Computer Auditing	Both

Also see the programme outline below.

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
56839	871	120	Computer Auditing	Both
56839	872	60	Research assignment: Computer Auditing	Both

Assessment and Examination
Assignments, tests and examination papers are assessed by an internal examiner and, where applicable, assessed and moderated by internal and external moderators in accordance with the rules of the University. The assignment or article publishable in an accredited journal is assessed and, where applicable, moderated according to the requirements set by the Department of Accounting as agreed with the student.

Selection
Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overall selection policy, may be necessary.

Application
Applications for a specific year must be received not later than 31 October of the preceding year.

Programme Start Date
At the official commencement of classes.

3.2.4 MComm (Economics) – Thesis option (879)

Credits
180 credits

Specific Admission Requirements
An honours degree with Economics as the major subject with an average mark of at least 60%.

Admission is subject to selection with a mark of at least 65% in the Honours research assignment as a selection requirement.

Grade 12 Mathematics:

Matriculated before 2008: At least 60% (SG) or 40% (HG)
Matriculated in 2008: At least a 3 (40%)
Matriculated in 2009: At least a 4 (50%)
Matriculated after 2009: At least a 5 (60%)

In exceptional circumstances, a student that does not meet the Grade 12 Mathematics requirement may be considered for admission via the University's policy for the Assessment and Recognition of Prior Learning.

Duration
A minimum of 12 months.

Programme module

Code	Module	Credits	Module Name	Semester
12084	879	180	MComm (Economics) Full Thesis – 180 credits	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11235	828	180	Thesis: Economics	Both

Assessment and Examination
A student must submit a thesis resulting from independent research plus supplementary work that may be required by the Department.

3.2.5 MComm (Economics) – Coursework and Assignment option (889)

Credits
180 credits

Programme Outcomes
A minimum of 180 credits of which either 60 credits must be earned through a research assignment or 90 credits through a thesis and the balance of credits from fields of study as determined by the Department. A maximum of 20 credits may be obtained from a related and approved field of study.

Specific Admission Requirements
An honours degree with Economics as the major subject with an average mark of at least 60%.

A minimum achievement of 60% in the Intensive Statistics course that precedes the formal programme.

Grade 12 Mathematics:

Matriculated before 2008: At least 60% (SG) or 40% (HG)
Matriculated in 2008: At least a 3 (40%)
Matriculated in 2009: At least a 4 (50%)
Matriculated after 2009: At least a 5 (60%)

In exceptional circumstances, a student that does not meet the Grade 12 Mathematics requirement may be considered for admission via the University's policy for the Assessment and Recognition of Prior Learning.

Duration
Twelve months. Must be completed within three years. If not, the compulsory modules must be repeated.

Presentation
English.

Programme Content
See the programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
12084	889	180	MComm (Economics) Coursework and Assignment – 180 credits	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
12227	871	18	Advanced Microeconomic Analysis	Both
11906	871	18	Dynamic Economic Theory	Both
10760	771	14	Mathematical Economics **	Both
10595	871	18	Macroeconomics	Both
10605	871	18	Microeconomics	Both
10430	871	18	Econometrics or	Both
11267	872	18	Advanced Cross-section Econometrics or	Both

12528	872	18	Advanced Time Series Econometrics	Both
11216	871	60	Research Assignment: Economics or	Both
11235	872	90	Thesis: Economics	Both

**Mathematical Economics 771 must be taken if a similar module was not passed as part of an honours programme, which will extend the programme with six months. This is because this module is preceded by an intensive three-week mathematics course which runs concurrently with the intensive three-week statistics course which feeds into the Econometrics 871 module.

Elective modules (At least 30 credits)

If Mathematical Economics 771 is taken, at least 20 elective credits must be taken. If the 90-credit thesis option is chosen, no electives are required. The Econometric modules above not chosen as the compulsory module may be taken as elective modules.
All the modules are not necessarily presented every year.

Code	Module	Credits	Module Name	Semester
10436	771	10	Economic History	Both
10432	771	10	Economics of Education I	Both
10433	871	10	Economics of Education II	Both
10434	771	10	Economics of Technological Change	Both
12949	871	10	Financial Econometrics *	Both
12228	771	10	Financial Economics	Both
10457	771	10	Financial Markets Analysis	Both
10515	871	10	Advanced Development Economics	Both
11263	771	10	Industrial organisation	Both
64041	771	10	Institutional Economics	Both
10554	771	10	International Finance	Both
10555	771	10	International Trade Theory and Policy	Both
51861	771	10	Labour Economics	Both
64033	771	10	Monetary Economics	Both
59617	771	10	Environmental Economics	Both
10635	771	10	Development Economics	Both
11143	771	10	Public Economics	Both
10662	871	10	Post-Keynesian Macroeconomics	Both
11146	871	10	Applied Macroeconomics III	Both
10742	771	10	Applied Macroeconomics I	Both
10743	772	10	Applied Macroeconomics II	Both
10747	871	10	Applied Microeconomics III	Both
10745	771	10	Applied Microeconomics I	Both
10746	771	10	Applied Microeconomics II	Both

*Financial Economics 771 and Econometrics 871 are prerequisite pass modules.

Assessment and Examination

Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a relatively large number of essays and the research assignment or thesis.

Selection

Selection of students in accordance with the University's official selection policy may be unavoidable due to the limited number of students that can be accommodated in the programme.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
A three-week intensive statistics course precedes the formal programme and commences middle January.

3.2.6 MComm (Financial Accounting) – Thesis option (879)

Credits
A minimum of 180 credits

Specific Admission Requirements
A BCommHons degree in Financial Accounting or Management Accounting or a similar degree from another university plus any additional preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
Twelve months.

Presentation
English or Afrikaans.

Programme Content
A research project according to the requirements set by the Department of Accounting, consisting of a thesis as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop about writing a research proposal, presented by the Language Centre.

Programme module

Code	Module	Credits	Module Name	Semester
26883	879	180	MComm or MAcc Financial Accounting	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
66567	828	180	Thesis: Financial Accounting	Both

Assessment and Examination
The thesis and related article publishable in an accredited journal are assessed according to the requirements set by the Department of Accounting as agreed with the student.

Selection
Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overall selection policy, may be necessary.

Application
Applications for a specific year must be received not later than the preceding October.

Programme Start Date
At the official commencement of classes.

3.2.7 MComm (Financial Risk Management) – Coursework and Thesis option (879)

Credits
A thesis of 90 or 120 credits and further credits from advanced coursework to obtain a total of at least 180 credits.

Specific Admission Requirements
BCommHons in Financial Risk Management or an equivalent qualification of another recognised University.

Duration
At least 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
54690	879	180	MComm Financial Risk Management Full Thesis option – 180 credits	Both

Select one of the Thesis: Financial Risk Management modules

Code	Module	Credits	Module Name	Semester
11237	891	90	Thesis: Financial Risk Management	Both
11237	892	120	Thesis: Financial Risk Management	Both

Elective modules
Select modules to add up to at least 180 credits with the thesis.

Code	Module	Credits	Module Name	Semester
10441	813	15	Extreme value theory A	1
10442	843	15	Extreme value theory B	2
10461	865	15	Financial Risk Management practice	2
10504	835	15	Advanced Financial Risk management software	1
10501	831	15	Advanced Financial Risk Management A	1
10503	861	15	Advanced Financial Risk Management B	2
10517	833	15	Advanced portfolio management theory A	1
10518	863	15	Advanced portfolio management theory B	2
10575	834	15	Credit derivative instruments A	1
10576	864	15	Credit derivative instruments B	2

Assessment and Examination
Examinations in the coursework are written at the end of the second semester in November. A student must submit a thesis resulting from independent research plus supplementary work that may be required by the Department.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

3.2.8 MComm (Financial Risk Management) – Coursework and Assignment option (889)

Credits
A minimum of 180 credits.

Specific Admission Requirements
BCommHons in Financial Risk Management or an equivalent qualification of another recognised University.

Duration
A minimum of 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
54690	889	180	MComm (Financial Risk Management) Coursework and Assignment option (889)	Both

Select modules to add up to at least 180 credits with the assignment:

Code	Module	Credits	Module Name	Semester
10441	813	15	Extreme value theory A	1
10442	843	15	Extreme value theory B	2
10461	865	15	Financial Risk Management practice	2
10504	835	15	Advanced Financial Risk management software	1
10501	831	15	Advanced Financial Risk Management A	1
10503	861	15	Advanced Financial Risk Management B	2
10517	833	15	Advanced portfolio management theory A	1
10518	863	15	Advanced portfolio management theory B	2
10575	834	15	Credit derivative instruments A	1
10576	864	15	Credit derivative instruments B	2

Assignment: Financial Risk Management module is compulsory:

Code	Module	Credits	Module Name	Semester
11218	893	60	Research Assignment: Financial Risk Management	Both

Assessment and Examination
Examinations in the coursework are written at the end of the second semester in November. A student must submit an assignment resulting from independent research plus supplementary work that may be required by the Department.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

3.2.9 MComm (Human Resources Management) – Full thesis option(879)

Programme Description
The Master's programme in Human Resources Management is offered on a full-time basis or a part-time basis.

Specific Admission Requirements
An acknowledged honours degree in Industrial Psychology or Human Resources Management or an equivalent qualification is required for admission to the Master' programme in Human Resources Management.

Students must have obtained a minimum average of 65% for the preceding honours degree. Only a limited number of students will be accepted for this master's programme.

Other Requirements
A minimum of 180 credits, of which 180 credits are obtained from a thesis for the full-thesis programme.

Duration
Full-time programme: 1 year

Part-time programme: 2 years

Presentation
English.

Notes
Pass requirements
To pass, a student must obtain a mark of at least 50% for the thesis.

Programme Content
A student has to submit a thesis that is the result of an independent investigation.

See programme layout below.

Programme module

Code	Module	Credits	Module Name	Semester
48054	879	180	MComm Human Resource Management (Full thesis option 879)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11241	828	180	Thesis: Human Resource Management	Both

Selection
All master's applicants will be subjected to a selection process before admission. Selected candidates must inform the Department in writing before the end of the second week in December whether they will be proceeding with the programme.

Application
Students should apply in writing before 31 October of the year prior to the start of their studies on the official application form of the University as well as on the specific departmental application form obtainable from the departmental website (http://www.sun.ac.za/industrial_psychology/). Late applications will be considered only in exceptional cases.

Programme Start Date
One week prior to the official commencement of full-time undergraduate classes.

3.2.10 MComm (Human Resource Management) – Coursework option (889) and Coursework option modular (899)

Credits
180 credits

Programme Description
The Master's programme in Human Resources Management is offered on a full-time basis and a modular basis.

Programme Outcomes
A minimum of 180 credits, of which 90 credits are obtained from a thesis and 90 credits from the coursework modules for the coursework programme.

Specific Admission Requirements
An acknowledged honours degree in Industrial Psychology or Human Resource Management or an equivalent qualification is required for admission to the Master's programme in Human Resource Management.

Students must have obtained a minimum average of 65% for the preceding honours degree. Only a limited number of students will be accepted for this master's programme.

Other Requirements
Pass requirements
To pass, a student must obtain a mark of at least 50% for the thesis and, where applicable, at least 50% in each module. The final mark achieved will be calculated as an average of the mark for the thesis and the average mark of the modules, or the final mark is the mark for the full thesis. A manuscript based on the thesis must be presented for publication in an accredited journal on completion of the studies.

Programme Structure
Recognition of Master's modules
Recognition of Master's modules for graduation purposes usually expires after five years, unless written permission has been obtained to extend the recognition period.

Duration
Full-time programme: 1 year

Modular programme: 2 years (of which five weeks during the first year must be set aside to attend compulsory classes on campus)

Presentation
English.

Programme Content
See programme layout below.

Programme modules

Code	Module	Credits	Module Name	Semester
48054	889	180	MComm Human Resource Management (Fulltime Coursework option 889)	Both
48054	899	180	MComm Human Resource Management (Modular Coursework option 899)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11151	881	18	Advanced Strategic Management	Both
51861	882	12	Labour Economics	Both
12944	883	12	Negotiation	Both
12992	875	12	Organisational Development and Change	Both
12946	881	12	Professional Consultation and Ethics	Both
12948	884	12	Strategic Corporate Image Management	Both
10717	885	12	Strategic Organisational Design and Culture	Both
11241	871	90	Thesis: Human Resource Management	Both

Assessment and Examination
Students will be expected to obtain a class mark and a written examination per module.

Selection
All Master's applicants will be subjected to a selection process before admission. Selected candidates must inform the Department in writing before the end of the second week in December whether they will be proceeding with the programme.

Application
Students should apply in writing before 31 October of the year prior to the start of their studies on the official application form of the University as well as on the specific departmental application form, obtainable from the departmental website (http://www.sun.ac.za/industrial_psychology/). Late applications will be considered only in exceptional cases.

Programme Start Date
One week prior to the official commencement of full-time undergraduate classes.

3.2.11 MComm (Industrial Psychology) – Coursework option (889) and Coursework option modular (899)

Credits
A minimum of 180 credits.

Programme Description
General
The Master's programme in Industrial Psychology, MComm (Industrial Psychology) (previous programme name MComm (Psych)) is offered as a full-time coursework programme (the 889 option) as well as a modular coursework programme (the 899 option).

Programme Outcomes
Credits
A minimum of 180 credits, of which 90 credits are obtained from a thesis and 90 credits from the coursework modules for the coursework programme.

Specific Admission Requirements
The BCommHons (Industrial Psychology) (previous programme name BCommHons (Psych)) degree, or an equivalent honours degree which leads to statutory registration as psychometrist (independent practice), is required for admission to the Master's degree programme in Industrial Psychology (MComm (Industrial Psychology)).

Students must have obtained a minimum average of 65% for the preceding honours degree. Only a limited number of students will be accepted for this Master's programme.

Other Requirements
Pass requirements
To pass, a student must obtain a mark of at least 50% for the thesis and, where applicable, at least 50% in each module. The final mark achieved will be calculated as an average of the mark for the thesis and the average mark of the modules, or the final mark is the mark for the full thesis. A manuscript based on the thesis must be presented for publication in an accredited journal on completion of the studies.

Programme Structure
Recognition of Master's modules
Recognition of Master's modules for graduation purposes usually expires after five years, unless written permission has been obtained to extend the recognition period.

Registration as Psychologist, Category: Industrial Psychology
The MComm (Industrial Psychology) serve as requirement for registration as psychologist (in the category industrial psychologist) with the Health Professions Council of South Africa (HPCSA). Information regarding the requirements for statutory registration as psychologist is obtainable on the website of the HPCSA (http://www.hpcsa.co.za). Students

who intend registering as psychologists should register with the Professional Board for Psychology from the first year of their registration as a Master's student in Industrial Psychology. Application forms can be obtained from the HPCSA website. The forms should be completed and mailed together with all the necessary documentation.

Duration
Full-time programme: one year.

Modular programme: two years (of which five weeks during the first year must be set aside to attend compulsory classes on campus).

Presentation
English.

Programme Content
See programme layout below.

Programme modules

Code	Module	Credits	Module Name	Semester
10553	889	180	MComm (Industrial Psychology) – Coursework option Full-time (889)	Both
10553	899	180	MComm (Industrial Psychology) – Coursework option Modular (899)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
12945	872	6	Counsel skill for the Workplace	Both
10550	873	12	Intermediate Statistics and Computer Usage	1
10404	874	12	Occupational Health and Well-being	2
12992	875	12	Organisational Development and Change	Both
10667	876	12	Performance Dysfunction in the Workplace	Both
10648	886	12	Personality in the Workplace	Both
12946	881	12	Professional Consultation and Ethics	Both
10711	882	12	Strategic and Ethical Leadership	Both
11234	871	90	Thesis: Industrial Psychology	Both

Assessment and Examination
Students will be expected to obtain a class mark and write a written examination per module.

Selection
All Master's applicants will be subjected to a selection process before admission. Selected candidates must inform the Department in writing before the end of the second week in December whether they will be proceeding with the programme.

Application
Students should apply in writing before 31 October of the year prior to the start of their studies on the official application form of the University as well as on the specific departmental application form obtainable from the departmental website (http://www.sun.ac.za/industrial_psychology/). Late applications will be considered only in exceptional cases.

Programme Start Date
One week prior to the official commencement of full-time undergraduate classes.

3.2.12 MComm (Logistics Management) – Full thesis option (879)

Credits
180 credits

Programme Outcomes
A student must submit a thesis that is the result of independent research.

Programme module

Code	Module	Credits	Module Name	Semester
50407	879	180	MComm Logistics Management Full Thesis option – 180 credits	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11238	828	180	Thesis: Logistics Management	Both

3.2.13 MComm (Logistics Management) – Coursework and Assignment option (889) or Thesis option (899)

Credits
180 credits

Specific Admission Requirements
To be admitted to the MComm (Logistics Management) programme, a student must be in possession of the BCommHons (Logistics Management) degree or a qualification considered by the Department of Logistics to be of equal standing.

Duration
Twelve to eighteen months (full time).

Presentation
Some modules will be presented in English.

Programme Content
A student taking Logistics Management 889 or 899 must earn at least 180 credits as set out below. A maximum of 30 credits may be obtained from a related and approved field of study. Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme modules

Code	Module	Credits	Module Name	Semester
50407	889	180	MComm Logistics Management Coursework- and Assignment option – 180 Credits or	Both
50407	899	180	MComm Logistics Management Coursework- and Thesis option – 180 Credits	Both

One of the following research modules must be chosen:

Code	Module	Credits	Module Name	Semester
11219	874	75	Assignment: Logistics Management	Both
11238	884	150	Thesis: Logistics Management	Both

Elective modules (to form a total of at least 180 credits together with the research module)

Code	Module	Credits	Module Name	Semester
11275	842	15	Air Transport Economics	2
11571	814	15	Capita Selecta (Logistics Management)	1
11571	844	15	Capita Selecta (Logistics Management)	2

11909	813	15	Enterprise Resource Planning	1
10905	813	15	Financial investment planning	1
10933	853	15	Forecasting	2
51659	715	15	Industrial Relations	1
10912	773	15	Intermodal transport and logistics	2
59129	842	15	International Logistics	1
10925	742	15	Location of facilities	2
10924	852	15	Optimisation	2
12993	773	15	Port Authority	2
12701	813	15	Supply chain process framework and benchmarking	1
11135	742	15	Tax and financial analysis aspects	2
12994	774	15	Terminal Operations	1
11137	717	15	Transport insurance	1

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a number of essays, assignments and an assignment/thesis.

Selection
Students are selected for this programme primarily based on their academic performance and research skills. Only a limited number of students can be accommodated in the programme. Selection takes place in accordance with the University's overall admission and selection policy.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One week before the official commencement of lectures.

Enquiries
More information regarding the postgraduate programmes offered by the Department of Logistics is available from www.sun.ac.za/logistics or contact 021 808 2249.

3.2.14 MComm (Management Accounting) – Thesis option (879)

Credits
A minimum of 180 credits

Specific Admission Requirements
A BCommHons degree in Management Accounting or similar degree from another university plus any additional preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
Twelve months.

Presentation
English or Afrikaans.

Programme Content
A research project according to the requirements set by the Department of Accounting, consisting of a thesis and a related article publishable in an accredited journal.

Students must attend a writing skills workshop about writing a research proposal, presented by the Language Centre.

Programme module

Code	Module	Credits	Module Name	Semester
10812	879	180	MComm or MAcc Management Accounting	Both

All modules are compulsory

Code	Module	Credits	Module Name	Semester
66540	828	180	Thesis: Management Accounting	Both

Assessment and Examination
The thesis and related article publishable in an accredited journal are assessed according to the requirements set by the Department of Accounting as agreed with the student.

Application
Applications for a specific year must be received not later than 31 October of the preceding year.

Programme Start Date
One week before the official commencement of classes.

3.2.15 MComm (Mathematical Statistics) – Coursework and Thesis option (879)

Credits
A thesis of 90 or 120 credits and further credits from advanced coursework to obtain a total of at least 180 credits.

Specific Admission Requirements
An honours degree with Mathematical Statistics as the major field of study.

Duration
At least 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
22853	879	180	MComm and MSc in Mathematical Statistics (coursework plus thesis option)	Both

One of the Thesis: Mathematical Statistics modules must be selected

Code	Module	Credits	Module Name	Semester
11246	891	90	Thesis: Mathematical Statistics	Both
11246	892	120	Thesis: Mathematical Statistics	Both

Elective modules
Select modules to make up at least 180 credits together with the thesis.

Code	Module	Credits	Module Name	Semester
10441	813	15	Extreme value theory A	1
10442	843	15	Extreme value theory B	2
10509	814	15	Advanced multivariate categorical data analysis A	1

10511	844	15	Advanced multivariate categorical data analysis B	2
10512	815	15	Advanced multivariate statistical analysis A	Both
10513	845	15	Advanced multivariate statistical analysis B	2
10523	818	15	Advanced sampling techniques	1
10524	819	15	Advanced Mathematical Statistics A	1
11173	849	15	Advanced Mathematical Statistics B	2
10694	811	15	Bootstrap and other resampling techniques A	Both
10695	841	15	Bootstrap and other resampling techniques B	2
10530	816	15	Large sample theory A	1
10531	846	15	Large sample theory B	2
18130	822	15	Multi-dimensional scaling A	1
11910	852	15	Multi-dimensional scaling B	2
11174	817	15	Probability Theory A	1
11175	847	15	Probability Theory B	2
10703	812	15	Statistical learning theory A	1
10704	842	15	Statistical learning theory B	2

Assessment and Examination
Examinations in the coursework are written at the end of the second semester in November. A student must submit a thesis resulting from independent research plus supplementary work that may be required by the Department.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

3.2.16 MComm (Mathematical Statistics) – Coursework and Assignment option (889)

Credits
A minimum of 180 credits. The assignment of 60 credits is compulsory.

Specific Admission Requirements
An honours degree with Mathematical Statistics as the major field of study.

Duration
A minimum of 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
22853	889	180	MComm and MSc in Mathematical Statistics (coursework plus assignment option)	Both

Assignment: Mathematical Statistics module (compulsory)

Code	Module	Credits	Module Name	Semester
11228	895	60	Research Assignment: Mathematical Statistics	Both

Elective modules

Select modules to make up at least 180 credits together with the assignment.

Code	Module	Credits	Module Name	Semester
10509	814	15	Advanced multivariate categorical data analysis A	1
10511	844	15	Advanced multivariate categorical data analysis B	2
10512	815	15	Advanced multivariate statistical analysis A	Both
10513	845	15	Advanced multivariate statistical analysis B	2
10523	818	15	Advanced sampling techniques	1
10524	819	15	Advanced Mathematical Statistics A	1
11173	849	15	Advanced Mathematical Statistics B	2
10694	811	15	Bootstrap and other resampling techniques A	Both
10695	841	15	Bootstrap and other resampling techniques B	2
10441	813	15	Extreme value theory A	1
10442	843	15	Extreme value theory B	2
10530	816	15	Large sample theory A	1
10531	846	15	Large sample theory B	2
18130	822	15	Multi-dimensional scaling A	1
11910	852	15	Multi-dimensional scaling B	2
11174	817	15	Probability Theory A	1
11175	847	15	Probability Theory B	2
10703	812	15	Statistical learning theory A	1
10704	842	15	Statistical learning theory B	2

Assessment and Examination

Examinations in the coursework are written at the end of the second semester in November. A student must submit an assignment resulting from independent research plus supplementary work that may be required by the Department.

Application

Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date

One and a half weeks prior to the general commencement of classes.

3.2.17 MComm (Operations Research) – Coursework and Assignment option (889) or Thesis option (899)

Credits

180 credits

Specific Admission Requirements

To be admitted to the MComm (Operations Research) programme (Coursework and Assignment option or Thesis option) a student must be in possession of a BCommHons

degree in Operations Research or a qualification considered by the Department of Logistics to be of equal standing.

For information on 55336 Operations Research 889 or 899 MSc in Operations Research (coursework and assignment option or coursework and thesis option), please consult Part 5 (Faculty of Sciences) of the Calendar.

Programme Content
A student who enrols for Operations Research 889 or 899 must earn at least 180 credits as set out below. Not all of the listed modules may be offered every year. Students should contact the Department to find out which modules will be available.

Programme modules

Code	Module	Credits	Module Name	Semester
55336	889	180	MComm or MSc (Operations Research) – Coursework and Assignment option or	Both
55336	899	180	MComm or MSc (Operations Research) – Coursework and Thesis option	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
10933	853	15	Forecasting	2

One of the following must be chosen:

Code	Module	Credits	Module Name	Semester
11225	874	75	Assignment: Operational Research	Both
11243	884	150	Thesis: Operational Research	Both

Elective modules (minimum of 15 or 90 credits)

Code	Module	Credits	Module Name	Semester
64009	814	15	Capita Selecta (Operations Research)	1
64009	844	15	Capita Selecta (Operations Research)	2
46744	812	15	Decision Making	2
10905	813	15	Financial investment planning	1
10931	843	15	Game theory	1
10925	742	15	Location of facilities	2
12318	713	15	Metaheuristics	1
11907	886	15	Methods of Operational Research	2
10926	814	15	Scheduling	2

3.2.18 MComm (Operations Research) – Full thesis option (879)

Credits
180 credits

Specific Admission Requirements
To be admitted to the MComm (Operations Research) programme (Full thesis option) a student must be in possession of an BCommHons degree in Operations Research and must be sufficiently proficient with respect to the broad knowledge base in Operations Research or a qualification considered by the Department of Logistics to be of equal standing.

For information on 55336 Operations Research 879 MSc in Operations Research (Full thesis option) please consult Part 5 (Faculty of Sciences) of the Calendar.

Programme Content
A student who enrols for Operation Research 879 must submit a thesis that is the result of independent research.

Programme module

Code	Module	Credits	Module Name	Semester
55336	879	180	MComm or MSc Operations Research – Full Thesis option	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11243	828	180	Thesis: Operational Research	Both

3.2.19 MComm (Public and Development Management) – Coursework and Thesis option (889)

Credits

180 credits. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120-credit programme was phased out in 2012.

Programme Description

This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of one to two weeks of lectures at the Bellville Park campus. Presentation by means of interactive telematic education requires students to gather for lectures at least four times per module at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Specific Admission Requirements

BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered if applicants attained at least 60% in the preceding programme.

Duration

The programme is presented over a period of 45 weeks by a combination of modular (capstone laboratory of one to two weeks) and interactive telematic education.

Presentation

English, but written assignments, examinations, research assignment/thesis may be written in Afrikaans if preferred by the student.

Programme Content

A brochure on the Master's programmes is available from the Course Administrator.
Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

The student follows a compulsory module in Public Management Law (30 credits), as well as two optional modules of 30 credits each and an appropriate, advanced course in research methodology and academic writing skills. Students must also participate in a capstone laboratory where various activities are aimed at integrated assessment and set with an oral examination. In addition, the candidate must also complete a limited thesis of 90 credits that is still subjected to all the qualitative requirements of a thesis and a full examination by the supervisor, an internal examiner and an external examiner.

Programme module

Code	Module	Credits	Module Name	Semester
48003	889	180	MComm, MA in - or MPA in Public and Development Management (Coursework and thesis option)	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
60488	861	30	Public Management Law	Both
11242	861	90	Thesis: Public and Development Management	Both

Elective modules (two) with the coursework option (a minimum of 10 students are required before a module can be presented)

Code	Module	Credits	Module Name	Semester
11269	871	30	Advanced Programme and Project Management	Both
11270	871	30	Anti Corruption Studies	Both
58874	862	30	Capita Selecta – A sector specialisation as requested by students	Both
58874	861	30	Capita Selecta – A sector specialisation as requested by students	Both
11271	871	30	Comparative and Contemporary Public Management Innovation Studies	Both
60496	861	30	Integrated Community-based Development	Both
60518	861	30	Integrated Public Management	Both
60526	861	30	Integrated Public Policy Management and Analysis (Admission requirement 60% or more in the ICT module of the honours programme)	Both
11272	871	30	Monitoring and Evaluation	Both
66370	861	30	Municipal Management and Development (Admission requirement: Local Governance in the honours programme)	Both

Assessment and Examination

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection

Due to the limited number of students that can be accommodated, yearly selection in accordance with the official selection policy of the University may be unavoidable.

Application

Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date

Normally late January or early February.

3.2.20 MComm (Public and Development Management) – Full Thesis option (879)

Credits

A minimum of 180 credits. Full thesis. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120-credit programme was phased out in 2012.

Programme Description

The student must, besides a course in appropriate advanced research methodology and academic writing (if the student has not successfully completed such a course previously), complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner. The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

Specific Admission Requirements

BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered where applicants attained at least 60% in the preceding programme. Admission to the 100% research programme is subject to the completion and acceptance of a research proposal during the compulsory contact session in January/February.

Duration

The programme is presented over a period of 45 weeks by a combination of modular (capstone laboratory of one to two weeks) and interactive telematic education.

Presentation

English, but written assignments may be written in Afrikaans if preferred by the student.

Programme Content

A brochure on the Master's programmes is available from the Course Administrator.
Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

Programme module

Code	Module	Credits	Module Name	Semester
48003	879	180	MComm, MA or M in Public and Development Management (Full Thesis option) 879	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	Both

Assessment and Examination

Full research option: The student must, besides a course in appropriate advanced research methodology and academic writing, complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner. The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (cum laude). Accordingly, an average final mark of 50% is required to

pass the programme and an average final mark of 75% is required to pass with distinction (cum laude).

Selection
Due to the limited number of students that can be accommodated, yearly selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
Normally late January or early February.

3.2.21 MComm (Quantitative Management) – Coursework and Assignment option (889) or Thesis option (899)

Credits
180 credits

Specific Admission Requirements
To be admitted to the MComm (Quantitative Management) programme, a student must be in possession of the BCommHons (Quantitative Management) degree or a qualification considered by the Department of Logistics to be of equal standing.

Duration

Twelve months (full time).
Presentation
Some modules will be presented in English.

Programme Content
A student following this programme must earn at least 180 credits as set out below.
Programme modules

Code	Module	Credits	Module Name	Semester
58351	889	180	MComm Quantitative Management Coursework and Assignment option – 180 credits or	Both
58351	899	180	MComm Quantitative Management Coursework and Thesis option – 180 credits	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
46744	812	15	Decision Making	2
10933	853	15	Forecasting	2

One of the following research modules must be chosen:

Code	Module	Credits	Module Name	Semester
12970	872	75	Assignment: Quantitative Management	Both
12972	882	150	Thesis: Quantitative Management	Both

Elective modules (at least 0 to 75 credits)

Code	Module	Credits	Module Name	Semester
12723	812	15	Capita Selecta (Quantitative Management)	1
12723	842	15	Capita Selecta (Quantitative Management)	Both
11909	813	15	Enterprise Resource Planning	1
10905	813	15	Financial investment planning	1

10925	742	15	Location of facilities	2
59137	743	15	Physical Distribution Management	2
11136	716	15	Procurement and inventory management	1
59145	744	15	Road Transport Management	2
12701	813	15	Supply chain process framework and benchmarking	1
11135	742	15	Tax and financial analysis aspects	2

Assessment and Examination
Examinations are written at the end of the first semester in June and at the end of the second semester in November. Examination results are supplemented by the assessment of coursework, including a number of essays, assignments and a research seminar.

Selection
Students are selected for this programme primarily based on their academic performance. Only a limited number of students can be accommodated in the programme. Selection takes place in accordance with the University's overall admission and selection policy.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One week before the official commencement of lectures.

Enquiries
More information regarding the postgraduate programmes offered by the Department of Logistics is available from www.sun.ac.za/logistics or contact 021 808 2249.

3.2.22 MComm (Quantitative Management) – Full thesis option (879)

Credits
180 credits

Programme Outcomes
A student must submit a thesis that is the result of independent research.

Programme module

Code	Module	Credits	Module Name	Semester
58351	879	180	MComm (Quantitative Management) Full Thesis Option	Both

All modules are compulsory

Code	Module	Credits	Module Name	Semester
12972	828	180	Thesis: Quantitative Management	Both

3.2.23 MComm (Statistics) – Coursework and Thesis option (879)

Credits
A thesis of 90 or 120 credits and further credits from advanced coursework to obtain a total of at least 180 credits.

Specific Admission Requirements
An honours degree with Statistics as the major field of study.

Duration
At least 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
19658	879	180	MComm Statistics Full Thesis option – 180 credits	Both

One of the Thesis: Statistics modules must be selected

Code	Module	Credits	Module Name	Semester
11244	891	90	Thesis: Statistics	Both
11244	892	120	Thesis: Statistics	Both

Elective modules
Select modules to make up at least 180 credits together with the thesis.

Code	Module	Credits	Module Name	Semester
10509	814	15	Advanced multivariate categorical data analysis A	1
10511	844	15	Advanced multivariate categorical data analysis B	2
11911	823	15	Advanced Regression Technique A	1
11912	853	15	Advanced Regression Technique B	2
10521	821	15	Advanced Statistics A	1
10522	851	15	Advanced Statistics B	2
10523	818	15	Advanced sampling techniques	1
18130	822	15	Multi-dimensional scaling A	1
11910	852	15	Multi-dimensional scaling B	2
10694	811	15	Bootstrap and other resampling techniques A	Both
10695	841	15	Bootstrap and other resampling techniques B	2
11913	851	15	Applied Extreme Value Theory	2

Assessment and Examination
Examinations in the coursework are written at the end of the second semester in November. A student must submit a thesis resulting from independent research plus supplementary work that may be required by the Department.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

3.2.24 MComm (Statistics) – Coursework and Assignment option (889)

Credits
At least 180 credits. The assignment of 60 credits is compulsory.

Specific Admission Requirements
An honours degree with Statistics as the major field of study.

Duration
At least 12 months.

Programme Content
Depending on circumstances in the Department, some of the modules listed below may not be offered in a specific year **and modules can also be offered in different semesters than listed below**.

See programme outline below.

Programme module

Code	Module	Credits	Module Name	Semester
19658	889	180	MComm Statistics Coursework and Assignment option – 180 credits	Both

Assignment: Statistics module is compulsory

Code	Module	Credits	Module Name	Semester
11226	893	60	Research Assignment: Statistics	Both

Elective modules
Select modules to make up at least 180 credits together with the assignment.

Code	Module	Credits	Module Name	Semester
10509	814	15	Advanced multivariate categorical data analysis A	1
10511	844	15	Advanced multivariate categorical data analysis B	2
11911	823	15	Advanced Regression Technique A	1
11912	853	15	Advanced Regression Technique B	2
10521	821	15	Advanced Statistics A	1
10522	851	15	Advanced Statistics B	2
10523	818	15	Advanced sampling techniques	1
18130	822	15	Multi-dimensional scaling A	1
11910	852	15	Multi-dimensional scaling B	2
10694	811	15	Bootstrap and other resampling techniques A	Both
10695	841	15	Bootstrap and other resampling techniques B	2
11913	851	15	Applied Extreme Value Theory	2

Assessment and Examination
Examinations in the coursework are written at the end of the second semester in November. A student must submit an assignment resulting from independent research plus supplementary work that may be required by the Department.

Application
Applications for a specific year must be received by the end of October of the previous year.

Programme Start Date
One and a half weeks prior to the general commencement of classes.

3.2.25 MComm (Transport Economics) – Coursework and Assignment option (889) or Thesis option (899)

Credits
180 credits

Specific Admission Requirements
To be admitted to the MComm (Transport Economics) programme (Coursework and Assignment option or Thesis option), a student must be in possession of a BCommHons degree in Transport Economics or a qualification considered by the Department of Logistics to be of equal standing. The number of placements is limited by the Department of Logistics. Selection takes place in order of academic performance.

Programme Content
A student who enrols for Transport Economics 889 or 899 must earn at least 180 credits as set out below.

Programme modules

Code	Module	Credits	Module Name	Semester
21008	889	180	MComm Transport Economics Coursework and Assignment 889 option Or	Both
21008	899	180	MComm Transport Economics Coursework and Thesis 899 option	Both

Compulsory module

Code	Module	Credits	Module Name	Semester
10904	812	15	Economic investment planning	1

For 889, the following must be selected:

Code	Module	Credits	Module Name	Semester
11227	874	75	Assignment: Transport Economics	Both

For 899, the following must be selected:

Code	Module	Credits	Module Name	Semester
11245	874	150	Thesis: Transport Economics	Both

Elective Modules
Together with the thesis or the assignment and Economic Investment Planning 812, a total of at least 180 credits.

Code	Module	Credits	Module Name	Semester
11275	842	15	Air Transport Economics	2
64017	814	15	Capita Selecta (Transport Economics)	1
64017	844	15	Capita Selecta (Transport Economics)	2
10933	853	15	Forecasting	2
59129	842	15	International Logistics	1
10925	742	15	Location of facilities	2
10924	852	15	Optimisation	2
10930	771	15	Shipping economics and finance	2

3.2.26 MComm (Transport Economics) – Full thesis option 879

Credits
180 credits

Programme Outcomes
A student must submit a thesis that is the result of independent research.

Programme module

Code	Module	Credits	Module Name	Semester
21008	879	180	MComm Transport Economics Full Thesis 879 option	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11245	828	180	Thesis: Transport Economics	Both

3.2.27 MComm (Taxation) – Thesis option (879) and Coursework option (889)

Credits
A minimum of 180 credits.

Specific Admission Requirements
A BComm (with Law subjects) and LLB degree of this University or an equivalent qualification plus relevant preparatory programmes approved by Senate for this purpose.

Academic achievement in Taxation as subject at undergraduate and postgraduate levels during previous studies is taken into account in admission to the Coursework option.

Academic achievement in Taxation as subject at postgraduate level during previous studies is taken into account in admission to the Thesis option.

Duration
Twelve months in the case of the thesis 879 option and 24 months in the case of the coursework 889 option.

Presentation
Thesis option: English or Afrikaans; Coursework option: Afrikaans

Programme Content

- In the case of the thesis option 879:

A research project according to the requirements set by the Department of Accounting consisting of a thesis as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

- In the case of the coursework option 889:

Study of taxation legislation in the Republic of South Africa

Practice notes and departmental practice of the South African Revenue Services

Selected case law (court cases)

Essays as prescribed by the lecturers involved

A research project of limited scope according to the requirements set by the Department of Accounting, consisting of a research assignment as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

Programme modules

Code	Module	Credits	Module Name	Semester
18287	879	180	MComm or MAcc Taxation or	Both
18287	889	180	MComm or MAcc Taxation	Both

Compulsory submodules in the coursework option 889:

Code	Module	Credits	Module Name	Semester
10492	871	108	Advanced Taxation	Both
10493	872	72	Research Assignment: Advanced Taxation	Both

Compulsory module in the thesis option 879:

Code	Module	Credits	Module Name	Semester
66559	828	180	Thesis: Taxation	Both

Assessment and Examination
In the case of the thesis option 879, the thesis will be assessed according to the requirements set by the Department of Accounting as agreed with the student.

In the case of the coursework option 889, tests are assessed in accordance with the rules of the Department of Accounting. Examination papers are assessed by internal and external moderators according to the rules of the University. The essays and the research assignment will be assessed according to the requirements set by the Department of Accounting as agreed with the student.

Passing Taxation 871 is a pre-requisite for Taxation 872.

Selection
Because only a limited number of students can be accommodated in this programme, selection in accordance with the University's overall selection policy may be necessary.

Application
Applications for a specific year must be received not later 31 October of the previous year.

Programme Start Date
At the official commencement of classes.

3.3 MAcc

3.3.1 MAcc (Auditing) – Thesis option (879)

Credits
A minimum of 180 credits.

Specific Admission Requirements
A BAccHons degree or Postgraduate Diploma in Accounting (after attainment of a recognised bachelor's degree) or an equivalent qualification from another university plus any additional preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
12 months.

Presentation
Afrikaans or English.

Programme Content
The thesis that is the result of a research project in accordance with the requirements set by the Department of Accounting, as well as a related article publishable in an accredited journal.

Students are required to attend a writing skills workshop about the writing of research proposals, presented by the Language Centre.

Programme modules

Code	Module	Credits	Module Name	Semester
17426	879	180	MAcc Auditing (Thesis option)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
66583	828	180	Thesis: Auditing	Both

Assessment and Examination
The thesis and the article publishable in an accredited journal are assessed according to the requirements of the Department of Accounting as agreed on with the student.

Selection
Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overall selection policy, may be necessary.

Application
Applications for a specific year must be received no later than 31 October of the preceding year.

Programme Start Date
At the official commencement of classes.

3.3.2 MAcc (Financial Accounting) – Thesis option (879)

Credits
A minimum of 180 credits.

Specific Admission Requirements
The degree BAccHons, BAccHonsLLB or Postgraduate Diploma in Accounting (after obtaining a recognised bachelor's degree) of this University or another degree plus any other preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
12 months.

Presentation
English or Afrikaans.

Programme Content
A research project according to the requirements of the Department of Accounting consisting of a thesis as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

Programme module

Code	Module	Credits	Module Name	Semester
26883	879	180	MComm or MAcc Financial Accounting (Thesis option)	Both

All modules are compulsory

Code	Module	Credits	Module Name	Semester
66567	828	180	Thesis: Financial Accounting	Both

Assessment and Examination
The thesis and the article publishable in an accredited journal will be assessed according to the requirements set by the Department of Accounting as agreed on with the student.

Selection
Because only a limited number of students can be accommodated in the programme, selection in accordance with the University's overall selection policy may be necessary.

Application
Applications for a specific year must be received not later than 31 October of the preceding year.

Programme Start Date
At the official commencement of classes.

3.3.3 MAcc (Management Accounting) – Thesis option (879)

Credits
A minimum of 180 credits.

Specific Admission Requirements
A BAccHons degree or the Postgraduate Diploma in Accounting (after attainment of a recognised bachelor's degree) or a postgraduate diploma (after attainment of a recognised bachelor's degree) or a similar qualification from another university, plus any additional preparatory work approved by Senate for this purpose.

Academic achievement at postgraduate level during previous studies is taken into account during admission.

Duration
12 months.

Presentation
Afrikaans or English.

Programme Content
A thesis which is the result of a research project in accordance with the requirements set by the Department of Accounting, as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

Programme module

Code	Module	Credits	Module Name	Semester
10812	879	180	MComm or MAcc Management Accounting (Thesis option)	Both

All modules are compulsory

Code	Module	Credits	Module Name	Semester
66540	828	180	Thesis: Management Accounting	Both

Assessment and Examination
The thesis and a related article publishable in an accredited journal are assessed according to the requirements set by the Department of Accounting as agreed on with the student.

Application
Applications for a specific year must be received no later than 31 October of the preceding year.

Programme Start Date
At the official commencement of classes.

3.3.4 MAcc (Taxation) – Thesis option (879) and Coursework option (889)

Credits
A minimum of 180 credits.

Specific Admission Requirements
The BAccHons degree, BAccLLB or the Postgraduate Diploma in Accounting (after obtaining a recognised bachelor's degree) of this University or an equivalent qualification, plus relevant preparatory programmes approved by Senate for this purpose.

Academic achievement in Taxation as subject at undergraduate and postgraduate levels during previous studies is taken into account in admission to the Coursework option.

Academic achievement in Taxation as subject at postgraduate level during previous studies is taken into account in admission to the Thesis option.

Duration
Twelve months in the case of the thesis option (879) and 24 months in the case of the coursework option (889).

Presentation
Thesis option: English or Afrikaans; Coursework option: Afrikaans.

Programme Content
- In the case of the thesis option (879):
A research project according to the requirements set by the Department of Accounting, consisting of a thesis as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

- In the case of the coursework option (889):
Study of Taxation Legislation in the Republic of South Africa

Practice notes and departmental practice of the South African Revenue Services

Selected case law (court cases)

Essays as prescribed by the lecturers involved

A research project of limited scope according to the requirements set by the Department of Accounting, consisting of a research assignment as well as a related article publishable in an accredited journal.

Students must attend a writing skills workshop in respect of writing a research proposal, presented by the Language Centre.

Programme modules

Code	Module	Credits	Module Name	Semester
18287	879	180	MComm or MAcc Taxation	Both
18287	889	180	MComm or MAcc Taxation	Both

Compulsory submodules in the case of the coursework option 889:

Code	Module	Credits	Module Name	Semester
10492	871	108	Advanced Taxation	Both
10493	872	72	Research Assignment :Advanced Taxation	Both

Compulsory submodule in the case of thesis option 879:

Code	Module	Credits	Module Name	Semester
66559	828	180	Thesis: Taxation	Both

Assessment and Examination
In the case of the thesis option (879), the thesis will be assessed according to the requirements set by the Department of Accounting as agreed with the student.

In the case of the lecturing option (889), tests are assessed in accordance with the rules of the Department of Accounting. Examination papers are assessed by internal and external moderators according to the rules of the University. The essays and the research assignment will be assessed according to the requirements set by the Department of Accounting, as agreed on with the student.

Passing Taxation 871 is pre-requisite for Taxation 872.

Selection
Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overall selection policy, may be necessary.

Application
Applications for a specific year must be received not later than 31 October of the previous year.

Programme Start Date
At the official commencement of classes.

3.4 MA in Public Development Management from 2012 (180 credits)

3.4.1 MA in Public and Development Management (Structured) 889 (Coursework and thesis option)

Credits

A minimum of 180 credits. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120 credit programme was phased out in 20121.

Programme Description

This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of 1-2 weeks of lectures at the Bellville Park campus. Presentation by means of interactive telematic education requires students to gather for lectures at least four times per module at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Specific Admission Requirements

BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered where applicants attained at least 60% in the preceding programme.

Duration

The programme is presented over a period of 45 weeks by a combination of modular (capstone laboratory of 1 to 2 weeks) and interactive telematic education.

Presentation

English, but written assignments, examinations, research assignment/thesis may be written in Afrikaans if preferred by the student.

Programme Content

A brochure on the master's programmes is available from the Course Administrator.

Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

The student follows a compulsory module in Public Management Law (30 credits), as well as two optional modules of 30 credits each and an appropriate, advanced course in research methodology and academic writing skills. Students must also participate in a capstone laboratory where various activities are aimed at integrated assessment and set with an oral examination. In addition, the candidate must also complete a limited thesis of 90 credits that is still subjected to all the qualitative requirements of a thesis and a full examination by the supervisor, an internal examiner and an external examiner.

Programme module

Code	Module	Credits	Module Name	Semester
48003	889	180	MComm, MA in - or MPA in Public and Development Management (Coursework and thesis option)	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
60488	861	30	Public Management Law	Both
11242	861	90	Thesis: Public and Development Management	Both

Elective modules (two) for the coursework option (a minimum of 10 students are required before a module can be presented)

Code	Module	Credits	Module Name	Semester
11269	871	30	Advanced Programme and Project Management	Both
11270	871	30	Anti Corruption Studies	Both
11271	871	30	Comparative and Contemporary Public Management Innovation Studies	Both
60496	861	30	Integrated Community-based Development	Both
60518	861	30	Integrated Public Management	Both
60526	861	30	Integrated Public Policy Management and Analysis (Admission requirement 60% or more in the ICT module of the honours programme)	Both
11272	871	30	Monitoring and Evaluation	Both
66370	861	30	Municipal Management and Development (Admission requirement: Local Governance in the honours programme)	Both
58874	864	30	Capita Selecta a sector specialisation as requested by students	Both
58874	861	30	Capita Selecta a sector specialisation as requested by students	Both

Assessment and Examination

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection

Due to the limited number of students that can be accommodated each year, selection in accordance with the official selection policy of the University may be unavoidable.

Application

Applications for a specific year must be received by the end of the preceding October.

Programme Start Date

Normally late January or early February.

3.4.2 MA in Public and Development Management Full Thesis Option 879

Credits

A minimum of 180 credits. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120-credit programme was phased out in 2012.

Programme Description

The student must, besides a course in appropriate advanced research methodology and academic writing (if the student has not successfully completed such a course previously), complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner.

The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

Specific Admission Requirements
BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered where applicants attained at least 60% in the preceding programme. Admission to the 100% research programme is subject to the completion and acceptance of a research proposal during the compulsory contact session in January/February.

Duration
The programme is presented over a period of 45 weeks by a combination of modular (capstone laboratory of one to two weeks) and interactive telematic education.

Presentation
English, but written assignments may be written in Afrikaans if preferred by the student.

Programme Content
A brochure on the master's programmes is available from the Course Administrator.
Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

Programme module

Code	Module	Credits	Module Name	Semester
48003	879	180	MComm, MA or M in Public and Development Management (Full Thesis option) 879	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	Both

Assessment and Examination
Full research option: The student must, besides a course in appropriate advanced research methodology and academic writing (if the student has not successfully completed such a course previously), complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner. The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (cum laude). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (cum laude).

Selection
Due to the limited number of students that can be accommodated each year selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications for a specific year must be received by the end of the preceding October.

Programme Start Date
Normally late January or early February.

3.5 M in Public Administration

3.5.1 M in Public Administration (MPA) Structured (Coursework and thesis option) (889)

Credits
A minimum of 180 credits. Full thesis. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120-credit programme was phased out in 2012.

Programme Description
This programme is presented by means of modular as well as interactive telematic education. Modular presentation comprises attending blocked contact sessions of one to two weeks of lectures at the Bellville Park campus. Presentation by means of interactive telematic education requires students to gather for lectures at least four times per module at an electronic study centre near their places of residence. The lectures are presented on television from a studio at Stellenbosch and transmitted by satellite to the different study centres in Southern Africa. During the transmission, students can interact telephonically with the lecturer. During the remaining time, the students do assignments and study at home.

Specific Admission Requirements
BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered where applicants attained at least 60% in the preceding programme.

Duration
The programme is presented over a period of 45 weeks by a combination of modular (capstone laboratory of one to two weeks) and interactive telematic education.

Presentation
English, but written assignments, examinations and the research assignment/thesis may be written in Afrikaans if preferred by the student.

Programme Content
A brochure on the master's programmes is available from the Course Administrator.
Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

The student follows a compulsory module in Public Management Law (30 credits), as well as two optional modules of 30 credits each and an appropriate, advanced course in research methodology and academic writing skills. Students must also participate in a capstone laboratory where various activities are aimed at integrated assessment and set with an oral examination. In addition, the candidate must also complete a limited thesis of 90 credits that is still subjected to all the qualitative requirements of a thesis and a full examination by the supervisor, an internal examiner and an external examiner.

Programme module

Code	Module	Credits	Module Name	Semester
48003	889	180	MComm, MA in - or MPA in Public and Development Management (Coursework and thesis option)	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
60488	861	30	Public Management Law	Both
11242	861	90	Thesis: Public and Development Management	Both

Elective modules (two) with the coursework option (a minimum of 10 students are required before module can be presented)

Code	Module	Credits	Module Name	Semester
11269	871	30	Advanced Programme and Project Management	Both
11270	871	30	Anti Corruption Studies	Both
11271	871	30	Comparative and Contemporary Public Management Innovation Studies	Both
60496	861	30	Integrated Community-based Development	Both
60518	861	30	Integrated Public Management	Both
60526	861	30	Integrated Public Policy Management and Analysis (Admission requirement 60% or more in the ICT module of the honours programme)	Both
11272	871	30	Monitoring and Evaluation	Both
66370	861	30	Municipal Management and Development (Admission requirement: Local Governance in the honours programme)	Both
58874	864	30	Capita Selecta A sector specialisation as requested by students	Both
58874	861	30	Capita Selecta A sector specialisation as requested by students	Both

Assessment and Examination

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (*cum laude*). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (*cum laude*).

Selection

Due to the limited number of students that can be accommodated each year, selection in accordance with the official selection policy of the University may be unavoidable.

Application

Applications for a specific year must be received by the end of the preceding October.

Programme Start Date

Normally late January or early February.

3.5.2 M in Public Administration (MPA) Full thesis option (879)

Credits

A minimum of 180 credits. Students that registered in or prior to 2011 require a minimum of 120 credits. The 120-credit programme was phased out in 2012.

Programme Description

The student must, besides a course in appropriate advanced research methodology and academic writing (if the student has not successfully completed such a course previously), complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner.

The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

Specific Admission Requirements
BAHons/BAdminHons/BCommHons/BEconHons in Public and Development Management, BHons in Public Administration and the Advanced Diploma in Public Administration or an honours degree in Public and Development Management obtained at another university. An acceptable study record in the preceding programme is also required. An average of 65% in the preceding programme is deemed to be acceptable, although other factors, such as the mark obtained for the research component of the preceding programme, may be considered where applicants attained at least 60% in the preceding programme. Admission to the 100% research programme is subject to the completion and acceptance of a research proposal during the compulsory contact session in January/February.

Duration
The programme is presented over a period of 45 weeks through a combination of modular (capstone laboratory of 1 to 2 weeks) and interactive telematic education.

Presentation
English, but written assignments may be written in Afrikaans if preferred by the student.
Programme Content
A brochure on the master's programmes is available from the Course Administrator.
Tel.: (021) 918 4400; E-mail: enquiry@spl.sun.ac.za

Programme module

Code	Module	Credits	Module Name	Semester
48003	879	180	MComm, MA or M in Public and Development Management (Full Thesis option) 879	Both

Compulsory module(s)

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	Both

Assessment and Examination
Full research option: The student must, besides a course in appropriate advanced research methodology and academic writing (if the student has not successfully completed such a course previously), complete a thesis of 180 credits under guidance of a senior academic. The thesis is then subjected to examination by the supervisor, an internal examiner and an external examiner. The thesis must provide evidence of the candidate's ability to integrate existing data, information and knowledge in order to generate new knowledge and wisdom.

A final mark of 50% is required to pass a module and a final mark of 75% is required to pass with distinction (cum laude). Accordingly, an average final mark of 50% is required to pass the programme and an average final mark of 75% is required to pass with distinction (cum laude).

Selection
Due to the limited number of students that can be accommodated each year, selection in accordance with the official selection policy of the University may be unavoidable.

Application
Applications for a specific year must be received by the end of the preceding October.

Programme Start Date
Normally late January or early February.

3.6 MPhil

3.6.1 MPhil (Development Finance) (879)

Credits
180 credits – 120 credits for course work and 60 credits for the research report.

Programme Description
This unique master's degree in Development Finance is designed to provide a coherent programme of study at postgraduate level to train graduates that can fill the skill gaps in the financial industry and in the policy making and regulatory institutions in the development finance environment as well as to better understand the complexities of and manage the different development finance resources available to poor countries, especially in Africa. It has the specific aims of equipping students with a thorough understanding of the special problems of finance in developing countries and Africa in particular and with the skills to operate successfully and to make a meaningful contribution to policy formulation and implementation in this field. Overall, it offers an internationally recognised top quality academic programme with content that is relevant to the needs of Africa.

Programme Outcomes
Upon completion of the MPhil degree in Development Finance, participants should be able to demonstrate:

- a coherent and thorough understanding of the theories underpinning development finance practices and the ability to apply such knowledge to a developing country context within the public, private and NGO sectors;
- a comprehensive understanding of specific objectives and challenges of development finance as well as the structure of the development finance industry, especially in Africa;
- the ability to design, formulate, implement and evaluate development finance policies and programmes to address specific development needs within specific contexts;
- the ability to create an industry network for the leveraging of existing initiatives and uncovering of potential initiatives in the development finance industry;
- the ability to carry out an in depth evaluation of development finance projects and schemes in terms of feasibility as well as outcomes;
- the ability to conduct research in development finance at an advanced level and to communicate effectively the findings of such research to peers, policy makers and other end users; and
- the ability to produce a research report which meets the standard of scholarly research and professional writing.

Specific Admission Requirements
The following is required for admission to the MPhil (DevF):

- An appropriate Honours degree (the first postgraduate degree after a Bachelor's degree) or a four-year in-depth Bachelor's degree with content focused on business, finance, economics, accounting or commerce; or
- A three-year Bachelor's degree and a postgraduate diploma (120 SAQA credits) from a university or a university of technology. The content must focus on business, finance, economics, accounting or commerce; or
- A postgraduate degree in any discipline and appropriate experience in the area of development economics and/or finance; and
- A sound understanding of quantitative analysis – a good pass grade for school-leaving mathematics is advisable.

Important

- The Bachelor's or Honours degree must be on a level that is equivalent to the South African qualification.
- Local and foreign academic qualifications have to be at the NQF 7 level (old) or NQF 8 level (new). This implies that the qualification includes a module in Research Methodology and an individual research paper.
- For Assessment and Recognition of Prior Learning (ARPL), candidates may be required to write an academic paper on a development finance or development economics topic to demonstrate their competence in the subject.

Programme Structure

Programme Format

- **Modular programme**: The MPhil (DevF) is presented as a modular programme over two years. Students attend four class contact sessions of a fortnight each over a period of two years, and complete a research report.
- **Course methodology**: A mix of highly interactive lectures/course material, case studies and a workshop on financial risk and structure. Handbooks, guidelines, articles, journal materials and a matrix /checklists will serve as reference material for future project design and delivery.

Research Report

The Research Report is an integral part of the master's programme and carries a total of 60 credit unit, thus making it one-third of the credit requirements of the programme. The Research Report is normally between 15 000 – 25 000 words on a topic chosen by the student and is supervised by a member of the academic staff. Students are encouraged to base their research reports on topics of direct professional interest to them.

The aims of the research report are to:

- Enable students to clearly identify and describe a research problem/question and goal within the field of development finance;
- Enable students to become sufficiently acquainted with the relevant literature (both theoretical and empirical) on their chosen research problem;
- Develop students' ability to apply critically research methods and techniques that are appropriate to their research report topic;
- Develop students' ability to present their material in a logical, clear and systematic way as well as in acceptable linguistic and stylistic standards;
- Provide students with the opportunity to demonstrate the capacity for independent, self-managed learning and critical reflection on the research process.

Code	Module	Credits	Module Name	Semester
58424	879	180	Development Finance	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12924	866	12	Research Methods in Development Finance	Both
12925	866	12	Economic Development Perspectives in Africa	Both
10392	866	12	Issues in Banking and Finance	Both
12966	866	12	Financial Sector Regulation and Development	Both
62189	866	12	Project Finance	Both
12927	866	12	Governance and Ethics	Both
62170	866	12	Micro Finance	Both
57398	866	60	Research Project	Both

Elective modules:
In addition to the core subjects, students have to do thirty-six (36) credits from the elective component of the MPhil (DevF) programme (each elective counts 12 credits).

Assessment and Examination
It is expected from students who have been admitted to the MPhil in Development Finance programme that they obtain pass grades in the prescribed written and oral assessments of the required fields of study and complete a satisfactory research report (as prescribed by the USB).

3.6.2 MPhil (Environmental Management) – Full thesis option (879)

Programme presentation subject to HEQC approval.

Credits
A minimum of 180 credits. Students that registered in or prior to 2011 require a minimum of 240 credits. The two-year MPhil programme was phased out in 2012.

Specific Admission Requirements
A Postgraduate Diploma in Environmental Management. The Programme Committee may also consider any other equivalent qualification if the applicant did not graduate with a Postgraduate Diploma in Environment Management.

Duration
The MPhil can be complete in a minimum of one year or part time over two years. Students that registered in or prior to 2011 requires a minimum of two years. The two-year MPhil programme will phase out in 2012.

Students will need to reapply for admission in the second year and will only be accepted in exceptional cases.

Programme Content
A brochure is available from the Programme Administrator, tel. 021 808 2151, e-mail jjs3@sun.ac.za.

The MPhil-degree in Environmental Management comprises a research thesis that focuses on environmental management as well as the attendance of a compulsory research workshop.

Programme module

Code	Module	Credits	Module Name	Semester
55255	879	180	MPhil in Environmental Management (Research) 879 Full Thesis Option	Both

Compulsory module

Code	Module	Credits	Module Name	Semester
11247	828	180	Thesis: Environmental Management	Both

Assessment and Examination
An average mark of 50% is required to pass the MPhil degree and an average final mark of 75% is required to pass with distinction (cum laude).

Selection
Since only a limited number of students can be accommodated in the programme every year, selection may be required in accordance with the University's overarching selection policy. Preference will be given to students who attained an average of 65% or more in the Postgraduate Diploma in Environmental Management programme.

Application
Applications for a specific year must be received before the end of October of the previous year, unless permission was granted by the program co-ordinator.

Programme Start Date
Normally late January or early February, before the official commencement of classes.

Enquiries
Applications for admission to the programme should be addressed to:

The Coordinator: MPhil in Environmental Management, School of Public Leadership, Private Bag X1, Matieland 7602

Tel.: 021 808 2151; Fax: 021 808 2085; E-mail: jjs3@sun.ac.za.

3.6.3 MPhil (HIV/Aids Management) – Lecture and Assignment option (899)

Credits
A minimum of 180 credits must be obtained to pass the MPhil.

Programme Description
The MPhil is presented by the Africa Centre for HIV/Aids Management. It is an online (via the Internet) teaching programme. It is presented on a part-time basis and students attend one compulsory contact session at Stellenbosch during the year. Students must complete four modules coursework of 25 credits each and a study project (thesis) of 40 credits.

Specific Admission Requirements
The admission requirements are: (i) the Postgraduate Diploma in HIV/Aids Management with an average of at least 65%, (ii) appropriate managerial experience and (iii) computer, internet and e-mail skills.

Presentation
It is an online (via the Internet) programme that is presented only in English. A number of compulsory satellite classes on Saturdays will be presented through the course of the year.

Programme Content
Students must pass all four modules and the study project to obtain the 180 credits necessary to pass the MPhil.

Programme module

Code	Module	Credits	Module Name	Semester
57665	899	180	MPhil (HIV/AIDS Management) Coursework and Assignment option 899	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
56081	846	25	The Epidemiology and Problem of HIV/Aids	Both
47015	846	25	Research Methods	Both
57657	846	25	Social Responsibility Ethics and HIV/Aids	Both
57649	846	25	Strategic Human Resources Management	Both
56375	846	80	Study Project	Both

Selection
A limited number of students are selected on the basis of academic performance and other admission requirements.

Application
Prospective students have to apply in writing before 30 November of the year prior to their studies. Application forms are available from the Africa Centre for HIV/Aids Management or on the Centre's website.

Enquiries
Tel: +27 (0)21 808 3002 / 2964 / 3006

E-mail: pdm@sun.ac.za or aids@sun.ac.za or bianca@sun.ac.za
Website: http://www.aidscentre.sun.ac.za

3.6.4 MPhil (Coaching) (879)

Credits
This master's programme is presented at NQF level 8 (180 credits).

Programme Description
The MPhil in Management Coaching is aimed at managers, leaders, specialists and learning facilitators in all industries. It holds significant value for all people working with the human aspect of transferring knowledge, and those that support growth, facilitate the forming of meaningful relationships and help to enhance performance.

Programme Outcomes
Learning Philosophy
The learning philosophy of MPhil in Management Coaching is based on the following:

- Integrating theory and practice
- Finding an authentic coaching style
- International application with local specialisation

Programme Format
This modular programme (block release programme) runs over two years and consists of three phases:

- **Phase 1** – Class programme: Students have to attend four blocks of one week each on the Bellville Park campus during the first year. During this time, they will be exposed to various models to discover their own particular framework for coaching. Coaching practice, case studies and assignments form part of this phase of the programme.
- **Phase 2** – Professional assessment: Students' coaching competence is assessed both in terms of their ability to convey their personal coaching approach and style, and in terms of authentically displaying coaching skills which resonate with their own model. This phase takes one week at the beginning of the second year.
- **Phase 3** – Research and development: Students have to complete a research report during the second year of enrolment. During this phase, a tutor will be assigned to each student based on the student's field of interest. Students may schedule a number of face-to-face sessions with their tutors to discuss coaching issues that may arise.
- Throughout – Triad practice, supervision and coaching: A significant part of the students' journey is to coach and be coached.

Recognition of Prior Learning
A limited number of students can enter the programme through Stellenbosch University's Assessment and Recognition of Prior Learning (RPL) policy. ARPL candidates are required to put together a comprehensive portfolio of experience, demonstrating that they are on an equal footing as far as knowledge, competencies and skills are concerned with those with formal training. Prospective candidates may have to present their portfolios to two senior faculty members of the USB and they need to prepare for an in-depth interview.

Specific Admission Requirements
The following is required for admission to the MPhil in Management Coaching:

- An Honours degree, OR
- A four-year professional Bachelor's degree, OR
- A three-year Bachelor's degree and a postgraduate diploma

PLUS

- A minimum of four years of work experience in the broad field of People Management
- A comprehensive essay in which the candidate reflects on his/her experience and motives why he/she should be admitted to the programme
- Applicable psychometric tests.

NOTE: The candidate's previous academic qualifications should be at least on NQF Level 8.

Programme Content

The class programme of the MPhil in Management Coaching is spread over five phases of one week each. Between these phases, participants will continue to apply their coaching in practice, experiment with new approaches in their learning triads (support groups of fellow students), receive their own coaching and engage in reflective work. They will also participate in supervision days dedicated to reviewing their case work, using multiple lenses to enhance their understanding of their own professional practice.

The programme will be delivered through lectures, tutorials, case studies, assignments, practical work and independent research. The class programme covers the following:

Code	Module	Credits	Module Name	Semester
12299	879	180	Management Coaching	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12303	871	20	Fundamentals of Coaching	Both
12304	871	20	Business Coaching	Both
12305	871	20	Coaching for Leadership and Organisational Development	Both
12306	871	20	Advanced Coaching Approaches	Both
12307	872	40	Coaching Practise	Both
57398	871	60	Research Project	Both

Assessment and Examination

It is expected from students who have been admitted to the MPhil in Management Coaching programme that they obtain pass grades in the prescribed written and oral assessments of the required fields of study and complete a satisfactory research report (as prescribed by the USB).

3.6.5 MPhil (Sustainable Development) (889)

Credits

A minimum of 180 credits comprising two electives (15 credits each) plus a thesis/project/articles (150 credits). Students may select the option of doing four electives (15 credits each) plus a thesis/project/articles (120 credits).

Specific Admission Requirements

The only admission requirement is the Postgraduate Diploma in Sustainable Development, the BPhil degree in Sustainable Development Planning and Management or compliance with the requirements for the abovementioned Postgraduate Diploma (Sustainable Development) (passing eight core modules), whether or not the student has already graduated. The Programme Committee will consider applicants who have successfully completed any eight modules from the Postgraduate Diploma (Sustainable Development) and obtained Merit Certificates for these modules, even if the applicant has not graduated with the Postgraduate Diploma (Sustainable Development).

Duration
Students who have completed the Postgraduate Diploma (Sustainable Development) or comply with the requirements can complete this programme in a minimum of one year or on a part-time basis over two years.

Presentation
English, but written assignments, examinations, research assignments/theses may be written in Afrikaans if preferred by the student and where possible (some modules are presented by international lecturers who do not speak Afrikaans).

Programme Content
(A brochure for the MPhil (Sustainable Development) is available at www.sustainabilityinstitute.net)

This transdisciplinary MPhil (Sustainable Development) programme is composed of a minimum of two electives (explained further below) plus a research component that focuses on the planning, management and practice of sustainable development. The research component can be a thesis, a business plan or academic journal articles (explained further below).

The following options are available:
1. A thesis or business plan or two journal articles (150 credits), plus two electives (15 credits each), plus attendance of a compulsory Research Methodology Workshop; OR
2. A thesis or business plan or two journal articles (120 credits), plus four electives (15 credits each), plus attendance of a compulsory Research Methodology Workshop.

Programme modules

Code	Module	Credits	Module Name	Semester
58122	889	180	Sustainable Development	Both

Integrated thesis (150 credits)

Code	Module	Credits	Module Name	Semester
11189	874	150	Integrated Thesis and compulsory Research workshop	Both

The requirements for the research component are as follows:
A thesis must be completed in accordance with the requirements of the University, the School of Public Leadership and the supervisor. This thesis includes participation in a compulsory Research Methodology workshop. The Research Committee will assign a supervisor plus an internal and external examiner for each candidate in accordance with available expertise and equitable distribution of the supervision load.

On written application from the student, the Programme Director may approve the following alternatives to the normal academic thesis:

Option 1: Two academic articles in the style of a predetermined journal and in accordance with the requirements of the University, the School and the supervisor.

Option 2: A business plan for a complex capital works project or sustainable development project. For this option, students must select the Project Management modules as electives (see below).

Integrated thesis (120 credits)

Code	Module	Credits	Module Name	Semester
11189	875	120	Integrated Thesis and compulsory Research workshop	Both

The thesis includes participation in a compulsory Research Methodology workshop. The Research Committee will assign a supervisor plus an internal and external examiner for each candidate in accordance with available expertise and equitable distribution of the supervision load. On written application from the student, the Programme Director may approve the following alternatives to the normal academic thesis:

Option 1: Two academic articles in the style of a predetermined journal and in accordance with the requirements of the University, the School and the supervisor.

Option 2: A business plan for a complex capital works project or sustainable development project. For this option, students must select the Project Management modules as electives (see below).

Students wishing to complete a specific specialisation spanning the PG Dip (Sustainable Development) and the MPhil (Sustainable Development) and have it recognised as such must note that the research component for the MPhil (Sustainable Development) will also need to have the focus of that specific specialisation, for example a "Sustainable Development Planning" focus or a "Renewable and Sustainable Energy" focus. Students wishing to complete the "Sustainable Development Planning" option are advised to choose the 120-credit option for the thesis plus four electives, with the thesis having a "Sustainable Development Planning" focus, and with the following six additional modules highly recommended:

Project Management

Geographic Information Systems (GIS) (from the MPhil in Environmental Management)

Environmental Ethics (from the MPhil in Environmental Management)

Any of the following PG Dip (Sustainable Development) modules not yet completed: Sustainable Cities; Ecological Design for Community Building; Complexity Theory and Systems Thinking

Elective modules

Programme participants will be required to complete additional specialised elective modules. This can be done in any of the following ways:

1. A student may select any module from those listed below.
2. A student may select a module presented by any university or tertiary learning institution, including modules offered by the School of Public Leadership, as part of the MPhil in Environmental Management, or the Honours and Master's programmes in Public and Development Management (such as Project Management or GIS), on condition that the elective entails five or six teaching days, entails written work, and is equivalent to approximately 15 credits. If this module meets with the approval of the Programme Director, the student may enrol as long as the conditions pertaining to admission to the programme have been met. If this enrolment entails the payment of additional fees, this will be the responsibility of the student. The criteria used to approve an elective will be whether the elective is broadly consistent with the overall goal of building an understanding of sustainable development, also taking into account the requirements that the same modules cannot be offered for two degrees. A student who selects electives offered by the School of Public Leadership that do not appear on the list of modules below or from other Departments at Stellenbosch University that do not appear on the list below or at any other University or institution, will be registered for the module called Advanced Studies in Sustainable Development.

Code	Module	Credits	Module Name	Semester
11273	871	15	Research Dissemination	Both
51764	871	30	Research Methodology	Both
11195	873	15	Governance Globalisation and Civil Society	Both
11199	875	15	Sustainable Cities	Both
11190	871	15	Complexity Theory and Systems Thinking	Both
11192	873	15	Leadership and Ethics	Both
11187	872	15	Biodiversity and Sustainable Agriculture	Both
11188	876	15	Ecological Design for Community Building	Both
12230	871	15	Introduction to Development Planning	Both
11191	874	15	Corporate Citizenship	Both
11194	871	15	Development Planning Theory and Practice	Both
55492	873	15	Development Planning and Environmental Analysis	Both
11182	872	15	Development Planning Systems Law and Policy	Both
11198	874	15	Applied Economics	Both
11181	871	15	Policy and Legal Framework for Rural Development in Agriculture Sector	Both
12231	874	15	Systems and Technologies for Sustainable Agriculture	Both
12232	874	15	Food Security and Globalised Agriculture	Both
12531	871	15	Renewable Energy Financing	Both
11651	871	15	Renewable Energy Policy	Both
12530	871	15	System Dynamics Modelling	Both
12950	871	15	Advanced Studies in Sustainable Development	Both
51993	871	15	Project Management	Both
55263	871	15	Advanced Project Management	Both

Modules presented by departments in the Engineering Faculty

Code	Module	Credits	Module Name	Semester
64904	844	15	Bio-Energy	2
64920	844	15	Solar Systems	2
64890	814	15	Renewable Energy Systems	1
11948	774	15	Wind and Hydro Energy	Both

Assessment and Examination

Assessment is based on the requirements for the modules plus the internal and external examination of the thesis/project/articles (see below). To pass the MPhil (Sustainable Development) degree, an average mark of 50% must be obtained for each of the electives, plus a mark of 50% for the thesis/project/articles. To pass the MPhil (Sustainable Development) degree with distinction (*cum laude*), an average final mark of 75% is required.

Selection

Due to the limited number of students that can be accommodated in the programme, preference will be given to students who obtained an average of 65% or higher for each of the eight modules in the Postgraduate Diploma (Sustainable Development) or BPhil in Sustainable Development Planning and Management. Students must also submit an acceptable research proposal in order to qualify for selection.

Application
Applications for admission close at the end of September; late applications will only be considered if there are still openings.

Programme Start Date
Applications for a given year must be received by the end of September of the previous year, unless the Programme Director allows a student to apply after this date.

Enquiries
Enquiries regarding the programme content, study fees and application procedure can be addressed to The Administrator: Master's Programme in Sustainable Development, School of Public Leadership, University of Stellenbosch, PO Box 162, Lynedoch 7603.

Tel.: 021 881 3952; E-mail: beatrix.steenkamp@spl.sun.ac.za

3.7 Master of Business Management and Administration (MBA)

Programme Description

The MBA programme is presented on a full-time, part-time as well as modular basis.

Lectures are presented at the Bellville Park Campus.

The modules mentioned below are applicable to the full-time, part-time and modular programmes.

Programme options

The USB MBA is presented in three formats:

- MBA Full-time: One year of contact sessions on campus (English) – maximum three years to complete.
- MBA Part-time: Two years of contact sessions on campus (English) – maximum four years to complete.
- MBA Modular: Three years of contact sessions on campus, divided into an orientation block of four days and 10 blocks of six days each – maximum four years to complete.
- Two MBA Modular options are offered:
- One with classes presented in English
- One with classes presented in both Afrikaans and English, but mainly in Afrikaans

If a student fails to complete the degree within the maximum period, he will not be allowed to graduate.

During this period a student will also have to complete a research report.

Programme overview

The content of the MBA is structured into three phases, namely Management Fundamentals, Management in Context and Management Enhancement. The research report will run parallel to Phases 2 and 3. Full-time, part-time and modular MBA studies cover the same modules.

Phase 1: Management Fundamentals

This phase prepares students to operate in a business environment by covering the basic tools and frameworks required for business decision making. The detailed content of the basic management tools is defined by that which is required in the Management in Context phase (Phase 2). The following modules are delivered within this phase:

- Business Fundamentals
- Personal Skills Development
- Economics for Managers
- Decision Analysis
- Management Accounting
- Leadership Orientation and Context
- Research Methodology

Management Fundamentals will also include Orientation and Personal Skills Development, which consists of Information Literacy, Presentation Skills and Writing Skills.

Phase 2: Management in Context

This phase is structured in three broad and overlapping learning clusters: Individual, Organisation and Environment. The following modules are delivered within this phase:

- Business Finance
- Operations and Information Management
- Business Environment
- Marketing Management

- Strategic Management
- Leadership

Phase 3: Management Enhancement
This phase expands the horizons of the students by offering:
- Electives
- International study tour
- Field work, such as consultation, internships and action learning projects.

Programme Outcomes
Philosophy of learning
To prepare students for the professional world, the MBA focuses on the development of personal leadership competencies, a solid theoretical underpinning and real-world practice. Students have the opportunity to specialise through electives, specialist areas and research. A unique and individualised leadership development process forms a central theme of the MBA programme. The objective is to develop leaders who will make a conscious, demonstrable and sustainable difference in their organisations. Furthermore the programme consists of two additional central themes, namely the development of integrated and holistic thinking pertaining to business problems as well as the development of professional written and verbal communication skills.

Specific Admission Requirements
The degree MBA may be conferred upon students who –

1. hold a bachelor's degree of this University or another bachelor's degree or a three-year National Diploma or any other qualification approved by Senate to this effect, and who – by written approval – of Senate or the Executive Committee acting on behalf of Senate have been admitted to the programme for Master of Business Management and Administration;
2. underwent a minimum of three years of practical experience in the case of graduate students and a minimum of six years of practical experience in the case of students in possession of a diploma which, according to the judgement of Senate, forms sufficient preparation for the programme;
3. successfully took the required selection tests; and
4. after obtaining the aforementioned qualification for admission, took the prescribed programme for at least two years at the University and at the end thereof have passed its assessments. The duration of the programme for students who take the part-time or modular programme is a minimum of three years.

Programme Structure
Presentation

Full-time and part-time programmes
The full-time programme is presented over two calendar years by way of day classes and possibly night classes. The part-time programme lasts three years and students attend Friday evenings and Saturdays classes, except for the elective week that comprises of day classes. Full-time students have to complete a research report in their second year of registration, whereas part-time students complete this in their third year. The full-time and part-time programmes are presented in English only.

The modular MBA programme
The three-year, modular MBA programme is designed to comply with the requirements of all persons who wish to qualify further in the field of management. This programme is suitable for managers, regardless of their particular workplace, who are in the midst of their occupation and wish to obtain an MBA degree without extensive infringement of their duties. The programme is presented over a period of three years according to a modular

system. During the third year a research report has to be completed. The largest part of the programme consists of self-study; as a result, preparatory assignments are handed out by the particular lecturer at the end of each event. These home assignments are practice-oriented and can be completed within the working context of the students to the advantage of their employers as well as to their own development.

Continuation and Termination of Studies

Full-time students
Students who have completed the compulsory syllabus towards the middle of the academic year (in June) and still have more than one third of their credits of the core modules in arrears, may not continue with the MBA programme.

Part-time students
Students, who have completed the compulsory syllabus towards the end of the first academic year and still have more than one third of their credits of the core modules in arrears, may not continue with the MBA programme.

Modular students
Students, who have completed the compulsory syllabus towards the end of the first academic year and still have more than 50% of their credits of the core modules in arrears, may not continue with the MBA programme.

All groups
Students at the end of their residential period of the MBA programme who still have more than 50% of their credits in arrears, will not be allowed to continue with the programme.

Programme module

Code	Module	Credits	Module Name	Semester
10723	878	240	Business Management and Administration	Both
Code	**Module**	**Credits**	**Module Name**	**Semester**
11984	811	20	Business Finance	Both
11979	811	10	Business Fundamentals	Both
58955	811	15	Business in Society	Both
11981	811	20	Decision Analysis	Both
51810	811	10	Economics for Managers	Both
51756	811	10	International Management (MBA)	Both
60127	811	10	International study tour	Both
53392	811	40	Leadership	Both
10812	811	20	Management Accounting	Both
51667	811	20	Marketing Management (MBA)	Both
11982	811	25	Operations and Information Management	Both
11980	811	0	Personal Skills Development	Both
51764	811	10	Research Methodology	Both
57398	811	50	Research Project	Both
51799	811	20	Strategic Management (MBA)	Both

Electives:
In addition to the core subjects, students have to do 30 credits from the elective component of the MBA programme (each elective counts 10 credits, except Management Consulting which comprises 30 credits).

Assessment and Examination
It is expected from students who have been admitted to the MBA programme that they obtain pass grades in the prescribed written and oral assessments of the required fields of study and complete a satisfactory research report (as prescribed by the USB). The Graduate

School of Business applies a system of continuous assessment. Subjects must be taken continuously. Each subject must be passed on individual work prior to taking group grades into account.

Selection

The selection of candidates takes place on a yearly basis from July. It is expected of all candidates to take a series of selection tests. Furthermore candidates will have an interview with a representative from the Graduate School of Business. It is advisable to complete the application form as soon as possible in order to register for the programme.

Application

Applications for admission to the programme must be directed to Ms Marie Willows, University of Stellenbosch Business School, Box 610, Bellville 7535. Application forms to this effect as well as a brochure with complete information regarding programme content, admission procedures and tuition fees are available at the address mentioned above.

Recognition of Prior Learning

A limited number of students can enter the programme through Stellenbosch University's Assessment and Recognition of Prior Learning (ARPL) policy. ARPL candidates are required to put together a comprehensive portfolio of experience, demonstrating that they are on an equal footing as far as knowledge, competencies and skills are concerned with those with formal training. Prospective candidates may have to present their portfolios to two senior faculty members of the USB and they need to prepare for an in-depth interview.

4 DOCTORATE PROGRAMMES

4.1 The PhD Degree

Statutory requirements

Subject to contrary provisions in the Statute of the University, a doctor's degree can be conferred upon a student in the Faculty of Economic and Management Sciences if he has been registered with the University as a student for a doctorate for at least two years since the conferment of the master's degree approved for this purpose by Senate, or in some other way has attained a level of proficiency in said field of study, deemed by Senate to be of an adequate standard.

PhD candidates are required to –

- complete advanced original research of a highly creative nature, subject to approval of the University, in the area of economic and management sciences or administrative sciences.
- submit original work(s) – already published – of a high standard, dealing with a central theme and which, in the opinion of Senate, shows that the candidate has made a substantial contribution to the enrichment of knowledge in the field of economics, business or administrative sciences.
- conduct an oral examination, if required by the examiners, to the University's satisfaction.

Admission

Prospective students must apply in writing for admission to the doctoral degree. Each application will be considered by Senate on the recommendation of the Faculty Board.

Further provisions

Every candidate for the doctoral degree will be required to produce a dissertation.

In general, an oral examination will be required for the doctoral degree.

A candidate who is in the employ of an organisation external to the University must, prior to admission to a programme of study for the doctorate, furnish proof in writing that he has obtained such employer's permission –

- to register for the said programme of study for the doctorate; and
- to abide by the University's rules concerning the publication of dissertations.

Students who utilise sources beyond the control of the University must, prior to admission for a doctoral degree programme, and in instances where it is required by the University, submit a declaration from the relevant body regarding the conditions under which they may use this information.

No candidate may submit his dissertation for an examination before written approval has been obtained from his promoter.

Candidates may at any time during the academic year register for the doctoral examination.

When a candidate reports for the doctoral examination, an unbound copy of his dissertation must be submitted in its final form to the relevant department with a view to examination.

For the complete provisions concerning class attendance, dissertation requirements, oral examinations and registration after the basic period of residence, refer to the rules for higher degrees in Part 1 (General) of the Calendar.

If a candidate already possesses a degree of Doctor of Philosophy in the Faculty of Economic and Management Sciences or any other which, in the opinion of Senate, is a comparable qualification, he must –

- be registered at this University for at least one academic year before the PhD programme may be conferred upon him, and

- inform the Registrar, on application for admission as a student, whether he wishes to follow a PhD programme.
- If a candidate is not in possession of the degree of Doctor of Philosophy in the Faculty of Economic and Management Sciences or any other which, in the opinion of Senate, is a comparable qualification, he must –
- be registered at this University for at least three academic years before the PhD programme may be conferred upon him; and
- inform the Registrar, on application for admission as a student, whether he wishes to follow a PhD programme.

Enquire with the applicable department in connection with a specific subject-related research proposal.

4.2 Transdisciplinary doctoral programme focusing on complexity and sustainability studies

Programme Description

Inter-departmental and -faculty Offering

The *Faculty of Economic and Management Sciences*, in cooperation with the Faculties of *Arts and Social Sciences*, *AgriSciences*, *Law*, *Engineering*, *Medicine and Health Sciences*, *Science* and *Theology*, offers opportunities to prospective students who wish to do research on the finding of sustainable solutions to complex social-natural systems problems that cannot necessarily be studied from a particular, mono-disciplinary perspective, to enrich their doctoral studies in any of these faculties through courses on the theory and practice of transdisciplinarity. The current local-global challenges and crises experienced around the issues of poverty, urbanisation, water, waste, energy, food, soil, conflict and violence, equity and justice, etc. are typical problems/themes that lend themselves to research in this regard.

Programme Outcomes

Outcomes

Students completing this doctoral programme can expect to be equipped not only with a profound new understanding of the complex nature of the problems facing the African continent and the world at large, but will also have developed the cross-disciplinary thinking skills necessary to participate in multi-disciplinary teams intent on finding long-term, holistic solutions.

Qualification

The doctoral qualification of the faculty in which a student is registered, is conferred.

Specific Admission Requirements

Admission, Registration and Supervision

Prospective students submit their doctoral research proposals to a Panel of Supervisors constituted by representatives of the participating faculties. These representatives are appointed by the deans of the participating faculties. The Panel of Supervisors will, in consultation with the prospective student, evaluate the research proposal for its transdisciplinary merits and will recommend an appropriate multi-disciplinary team of main and co-supervisors to each successful research proposal. This Panel will also recommend an appropriate academic department and faculty in which the research is registered. The usual criteria and processes of admission, registration and the appointment of the doctoral supervisor(s) of the participating faculties apply.

Programme Structure

Dissertation, Core Modules and Learning Model

This programme entails a dissertation constituting all the credits for the degree. A set of core modules, presented by international and local experts, in the areas of sustainability, transdisciplinary epistemology, methodology and methods and complexity theory will be

offered at the commencement of the programme. These modules are not credit-bearing. However, written assessment of a thorough understanding of the material covered during these modules will be a requirement for proceeding with the programme. Furthermore, for the duration of the programme, students will be required to attend a regular postgraduate seminar series, affording them with the opportunity to present and discuss their work-in-progress with fellow students and their supervisors.

Duration

This is a full-time three-year programme during which students will, as far as practically possible, be co-located so as to ensure maximum transdisciplinary synergy with and between fellow students and supervisors. Students will be allowed additional time to complete their dissertations.

Notes

Funding and Bursaries

Students admitted to this programme will be eligible to apply for bursaries made available by the University and other funding institutions in this regard. More details and application forms can be obtained from the Programme Coordinator.

Assessment and Examination

The usual examination procedures of the University and the faculty in which a student is registered apply.

Enquiries

Contact Details

In addition to completing the normal University postgraduate application forms, prospective students should complete and return in writing the necessary application forms for this programme. These forms can be requested from:

John van Breda
Programme manager: Transdisciplinary Doctoral Programme
Room 1019, AI Perold Building
Stellenbosch University
Tel.: 021 808 2152
Fax: 021 808 2085
E-mail: jrvb@sun.ac.za

Subjects, Modules and Module Contents

ABBREVIATIONS AND NUMBERING SYSTEM

All subjects are represented by a subject number of five digits. Each module of the subject is represented by a three-digit module code, in which the year of study and semester of presentation (unless otherwise stated) are combined.

The subjects, including their constituent modules, credits, module subject, lecture loads, language specifications and module content, are given below.

Example:

10553 INDUSTRIAL PSYCHOLOGY				
142	6	Occupational Psychology	2L, 2P	A

Explanation:

10553 is the subject number; it refers to the subject Industrial Psychology.
142(6) (the 6 will normally be written in brackets) is the module code of the module.
Industrial Psychology 142(6) with the module subject: Occupational Psychology

The module code 142(6) has the following meaning:

First digit: 1 – refers to the year of study in which the module is presented;

Second digit: 4 – is a number to discriminate between modules of the same subject in the same year of study and refers to the semester (unless stated otherwise), according to the following pattern:
1, 2 or 3: modules offered in the first semester;
4, 5 or 6: modules offered in the second semester;
7, 8 or 9: modules offered over two semesters, i.e. a year module.

Third digit: 2 – has no specific meaning, but can be used to discriminate between different modules of the same subject in the same semester of the same year of study.

The number in the second square (otherwise in brackets) (6) – indicates the credit value of the module. Industrial Psychology 142(6) is therefore offered as a module during the second semester of the first year and a student will acquire six credits on completion.

Please note that in the majority of postgraduate modules, the following information is provided in a six-column table: the five-digit subject code, three-digit module code, credit value, module name, whether the module is compulsory or elective and, where applicable, in which semester the module is offered.

The teaching load of each module is indicated in brackets in the square next to the module subject. The following abbreviations are used:
L – lectures lasting 50 minutes each (e.g. 1L, 2L)
P – practical periods lasting 50 minutes each (e.g. 1P, 2P, 3P)
S – seminar lasting 50 minutes (e.g. 1S, 2S)
T – tutorials lasting 50 minutes each (e.g. 1T, 2T)

The teaching load of Industrial Psychology 142(6) amounts to two lectures plus one practical period per week for the duration of the module, i.e. one semester.

In the last square the language specification of each module is indicated. The following language specifications are used:

A Specification

- Prescribed textbooks are in Afrikaans and/or English.
- Class notes drawn up by the lecturer are
    - fully in Afrikaans, or
    - where possible, fully in Afrikaans and fully/partially (e.g. core class notes) also in English.
- Other compulsory reading material (e.g. scholarly journals, books, etc.) is in Afrikaans and/or English.
- Module frameworks and study guides drawn up by the lecturer are in Afrikaans and, where possible, are provided in Afrikaans and English to students whose language of preference for study is English.
- Transparencies and data-projector contents used by the lecturer in lectures, seminars, tutorials and practicals are in Afrikaans and/or English.
- The oral communication language of the lecturer in lectures, seminars, tutorials and practicals is primarily Afrikaans, but key terms and concepts may be explained briefly in English. Students asking questions in English may be answered in English by the lecturer. Guest lectures by overseas and/or South African lecturers with an inadequate academic language proficiency in Afrikaans may be delivered in English.
- Test and examination question papers are fully in Afrikaans and fully in English on the same question paper.
- Written assignments from lecturers for tutorials, seminars and practicals, when used for assessment purposes, are fully in Afrikaans and fully in English on the same handout.
- Written answers by students to test and examination questions and assignments may be in Afrikaans or English.
- Oral presentations by students in lectures, seminars, tutorials and practicals may be in Afrikaans or English.

T Specification

- Prescribed textbooks are in Afrikaans and/or English.
- Class notes drawn up by the lecturer are
    - fully in Afrikaans and fully in English, or
    - alternately in Afrikaans and English.
- Other compulsory reading material (e.g. scholarly journals, books, etc.) is in Afrikaans and/or English.
- Module frameworks and study guides are
    - fully in Afrikaans and fully in English, or
    - alternately in Afrikaans and English, depending on the language of oral communication of the lecturer in the particular classes.
- Transparencies and data-projector contents used by the lecturers in lectures, seminar classes, tutorials and practicals are in Afrikaans or English.
- The oral communication language of the lecturer in lectures, seminars, tutorials and practicals is
    - Afrikaans and English in the same class, with the proviso that the use of Afrikaans must be at least 50%, or
    - alternately Afrikaans and English in different classes of the module or programme, with the proviso that the use of Afrikaans must be at least 50%.
- Test and examination question papers are fully in Afrikaans and fully in English on the same question paper.

- Written assignments from lecturers for tutorials, seminars and practicals, when used for assessment purposes, are
    - fully in Afrikaans and fully in English in the same handout, or
    - alternately in Afrikaans and English, depending on the material not for assessment purposes (class notes, module frameworks, study guides, etc.), where the average use of Afrikaans must be at least 50%.
- Written answers by students to test and examination questions and assignments may be in Afrikaans or English.
- Oral presentations by students in lectures, seminars, tutorials and practicals in the T specification may be in Afrikaans or English according to their preferred academic language.

E Specification

- Prescribed textbooks are in English.
- Class notes drawn up by the lecturer are fully in English or, where possible, fully in English and fully/partially (e.g. core class notes) also in Afrikaans.
- Other compulsory reading material (e.g. scholarly journals, books etc.) is in English and/or Afrikaans.
- Module frameworks and study guides drawn up by the lecturer are in English and, where possible, are provided in English and Afrikaans to students whose language of preference for study is Afrikaans.
- Transparencies and data-projector contents used by the lecturer in lectures, seminars, tutorials and practicals are in English.
- The oral communication language of the lecturer in lectures, seminars, tutorials and practicals is primarily English, but key terms and concepts may be explained briefly in Afrikaans. Students asking questions in Afrikaans may be answered in Afrikaans by the lecturer. Afrikaans is not compulsory in the case of overseas lecturers.
- Test and examination question papers are fully in English and fully in Afrikaans on the same question paper.
- Written assignments from lecturers for tutorials, seminars and practicals, when used for assessment purposes, are fully in English and fully in Afrikaans on the same handout.
- Written answers by students to test and examination questions and assignments may be in Afrikaans or English.
- Oral presentations by students in lectures, seminars, tutorials and practicals may be in English or Afrikaans, except in those cases where the lecturer does not have a command of Afrikaans.

A & E Specification

Lectures are presented fully in Afrikaans and in English.

Prerequisite Pass, Prerequisite and Corequisite

After the description of the content of the module, the prerequisite pass, prerequisite and/or corequisite modules, where applicable, are given for that module. The following abbreviations are used:

PP – Prerequisite Pass module
P – Prerequisite module
C – Corequisite module

The following definitions apply:

A **prerequisite pass module** is a module which students must have passed before they are allowed to take the module(s) for which it is a prerequisite pass module.

A **prerequisite module** is a module in which students must have achieved a class mark of at least 40, or a final mark of at least 40 in the case of a module subject to continuous assessment, before they are allowed to take the module for which it is a prerequisite module.

A **corequisite module** is a module which students must take in the same academic year as the module for which it is a corequisite, or in an earlier academic year.

Please note
No qualification will be awarded unless the candidate has passed all the relevant prerequisite and corequisite modules.

DEPARTMENT OF ACCOUNTING

17426 AUDITING				
288	**24**	**Auditing**	2L, 0.5P	**A**
Introduction and background to Auditing; ethics and the legal liability of the auditor; the audit process (pre-engagement and planning activities); basic principles of internal control; internal control cycles and the design thereof. *P Financial Accounting 178 or 188* Home department: ACCOUNTING				
378	**24**	**Auditing**	2L, 0.5P	**A**
Continuation of Auditing 288(24)/Auditing 388(24). Auditing in a computerised environment; the audit process (audit testing, completion and reporting); audit sampling. *P Auditing 288* *C Financial Accounting 278 or 288* Home department: ACCOUNTING				
388	**24**	**Auditing**	2L, 0.5P	**A**
(Content the same as Auditing 288) Introduction and background to Auditing; ethics and the legal liability of the auditor; the audit process (pre-engagement and planning activities); basic principles of internal control; internal control cycles and the design thereof. *P Financial Accounting 178 or 188* Home department: ACCOUNTING				

26883 FINANCIAL ACCOUNTING				
178	**24**	**Financial Accounting**	4L	**A & E**
The conceptual framework of accounting; introduction to International Financial Reporting Standards, the accounting process; preparation and presentation of financial statements of companies; close corporations; partnerships; accounting treatment of consignments and branches; liquidations. Home department: ACCOUNTING				

188	24	**Financial Accounting**	4L	**A & E**

Theoretical principles of International Financial Reporting Standards; accounting systems; preparation and presentation of financial statements for different enterprises and introduction to group statements.

Note
Students who did not pass Accounting in their matric year must attend five lectures in Financial Accounting 188 per week in the first semester.

Home department: ACCOUNTING

278	32	**Financial Accounting**	4L	**A**

Continuation of International Financial Reporting Standards ; introduction to group statements; treatment of intergroup transactions; accounting for investments in associated companies and joint ventures.

PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.)

Home department: ACCOUNTING

288	32	**Financial Accounting**	4L	**A & E**

Continuation of generally accepted accounting practice.

Preparation and presentation of financial statements for different enterprises.

PP Financial Accounting 178 or 188

Home department: ACCOUNTING

379	48	**Financial Accounting**	4L	**A**

Continuation of International Financial Reporting Standards; continuation of group statements; complex groups; acquisition and sale of subsidiaries; change in degree of control; foreign operations; equity accounting of associates and joint ventures; and consolidated cash flow statements.

PP Financial Accounting 278

Home department: ACCOUNTING

389	48	**Financial Accounting**	4L	**A**

Advanced aspects of International Financial Reporting Standards; continuation of group statements and consolidated cash flow statements.

PP Financial Accounting 278 or 288

Home department: ACCOUNTING

48062 INFORMATION SYSTEMS

112	6	**Information systems in a business environment**	1L, 1.5P	**A & E**

Practical ability to use information technology in a business environment. Understanding of the basic information technology components. Understanding and ability to use operating systems, word processors, e-mail, Internet, presentation software and spreadsheets.

Note
Information Systems 188 and Information Systems 112 are mutually exclusive and may not be presented together for degree purposes.

Home department: ACCOUNTING

152	6	**Accounting information systems**	1L, 1.5P	**A & E**

The workings of a computerised accounting information system. Integration of computerised systems with Financial Accounting. The practical use of a computerised accounting information system.

C Information Systems 112 or 188 or
C Computer skills 172
C Financial Accounting 178 or 188

Home department: ACCOUNTING

188	24	**Information systems for accountants**	3L, 1.5P	**A & E**

This module may only be taken for BAcc, BComm (Financial Accounting) and BComm (Management Accounting).

Basic understanding of information technology concepts for business systems (general systems theory; infrastructure; networks and electronic communication; management of information systems; design of information systems; control of information systems). The accountant as user of information systems (general computer literacy, word processing, spreadsheets, e-mail, Internet and presentation software).

Note
Information Systems 188 and Information Systems 112 are mutually exclusive and may not be presented together for degree purposes.

Home department: ACCOUNTING

284	12	**The design and management of Accounting Information Systems**	1.5L, 1.5P	**A**

The role of the accountant in the development of computerised business information systems (role of information in businesses; systems design techniques; system acquisition; management and control of system development process.) The practical implementation of a computerised accounting information system. Integration with Financial Accounting and Management Accounting.

P Financial Accounting 178 or 188
P Information Systems 188

Home department: ACCOUNTING

312	12	**Information Systems**	1L, 2P	**A**

The application of Financial Accounting, Management Accounting, Taxation and Auditing in solving business and accounting problems by making use of technology.

C Financial Accounting 278
P Auditing 288

Home department: ACCOUNTING

10812 MANAGEMENT ACCOUNTING				
278	**24**	**Management Accounting**	2L, 1T	**A**

Cost elements and concepts, cost determination, costing systems including job costing, standard costing and process costing, budgets and joint and by-products. Time value of money, risk and return, valuations, working capital management, financing policy and cost of capital.

PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.)
C Financial Accounting 278 or 288

Home department: ACCOUNTING

288	**24**	**Management Accounting**	2L, 1T	**A**

Fundamental concepts of cost and management accounting and financial management. Concepts like cost determination, integrated costing systems, standard costing, financial planning and management, cost volume-profit analysis, time value of money, formulation of financial strategy, valuations of financial instruments, the finance function, cost of capital, working capital management and investment decisions as of importance for a management accountant.

PP Financial Accounting 188 or
P Financial Accounting 178

Home department: ACCOUNTING

378	**36**	**Management Accounting**	2L, 1T	**A**

Costing systems, profit analysis, optimal decision making, performance measurement of divisions and divisional managers, financial statement analysis, valuations and acquisitions, dividend and investment decisions and related aspects of cost accounting and financial management.

PP Financial Accounting 278
P Management Accounting 278

Home department: ACCOUNTING

388	**48**	**Management Accounting**	4L	**A**

Project management, costing systems, standard costing, budgeting and control and performance measurement of responsibility centres. Financial management principles including change management and quality issues in operations, leases, international financial management, financial innovation, valuations, acquisitions and investment decisions of importance for a management accountant.

PP Financial Accounting 278 or 288
P Management Accounting 278 or 288

Home department: ACCOUNTING

18287 TAXATION				
298	**24**	**Taxation**	2L	**A**

The taxation structure of the Republic of South Africa with reference to the Income Tax Act; determining the tax liability of individuals; employees' tax and provisional tax; tax returns, assessments and sundry administrative aspects regarding taxation.

PP Financial Accounting 178 or 188 (In the latter case an internal Financial Accounting test required by the Department must be completed successfully.)
C Financial Accounting 278

Home department: ACCOUNTING

388	**24**	**Taxation**	2L	**A**
The taxation structure of the Republic of South Africa with reference to the Income Tax Act; determining the tax liability of individuals and companies; tax returns, assessments and sundry administrative aspects regarding taxation. VAT in terms of the Value Added Tax Act. *S Financial Accounting 178 or 188* Home department: ACCOUNTING				
399	**36**	**Taxation**	3L	**A**
Tax legislation in the Republic of South Africa, with specific reference to companies, value added tax, capital gains tax and dividend tax. *PP Financial Accounting 278 or* *Law of Taxation 411 and 441 (In the latter case a Taxation bridging program presented by the Department of Accounting must be followed with Law of Taxation 411 and 441 and the internal Tax test required by the Department must be completed successfully.)* *P Taxation 298 (This is not a prerequisite in the case of BAccLLB.)* Home department: ACCOUNTING				

DEPARTMENT OF AGRICULTURAL ECONOMICS

15504 AGRICULTURAL ECONOMICS				
234	**16**	**South African agriculture**	6L	**A**
An overview of the structure of the agricultural sector with regard to production and resource use; analysing the roles of agriculture, the institutional framework for agriculture, and the international context. History of agricultural policy; marketing and prices. Home department: AGRICULTURAL ECONOMICS				
242	**8**	**Agricultural production economics and methods of financial analysis**	2L, 1T	**A**
Production relations; optimising in factor-product, factor-factor, and product-product relations; cost relations; income, costs and margins in farming; cost accounting; economic and financial criteria; budgets. *P Economics 114 or* *Economics 178* *C Agricultural Economics 234* Home department: AGRICULTURAL ECONOMICS				
262	**8**	**The economics of agricultural resources**	3L	**T**
Basic concepts; determinants of the demand, supply and value of natural resources; resources and technology; the influence of location on land use; industry-specific factors. Home department: AGRICULTURAL ECONOMICS				

314	16	Farm management	4L, 2T	A
Approaches to management; entrepreneurship; strategic and operational decision making; management functions; management information and systems; capital requirements of a farming operation and credit sources; financing policy. Analysis of problems in respect of estate planning, inheritance and taxation (capital transfer tax and income tax) in agriculture. The communication process, communication channels. *P Agricultural Economics 242* Home department: AGRICULTURAL ECONOMICS				
334	**16**	**Agricultural and food marketing**	3L, 3P	**A**
This module is designed to introduce a comprehensive and balanced treatment of food marketing systems. It blends marketing and economic theory with real-world analytical tools in order to assist students in better understanding the food system and making profitable marketing decisions. Home department: AGRICULTURAL ECONOMICS				
354	**16**	**Agricultural policy analysis**	3L	**A**
Investigation of priority policy issues in South African agriculture; the influence on South Africa of the Agreement on Agriculture and subsequent attempts to order international trade in agricultural products; changes in the structure of food supply chains and the globalisation of food trade; BEE and transformation in South African agriculture; the linkages of agriculture to the rest of the economy. Home department: AGRICULTURAL ECONOMICS				
364	**16**	**Farm planning and decision making**	4L, 2T	**A**
Creative problem solving; framework for analysing farm decision making; information processing and human judgement; approaches to decision making under conditions of risk and uncertainty; tools and techniques for farm planning and decision making; linear programming applications; deficiencies in the linear programming algorithm and the introduction of alternative programming techniques; case studies. *P Agricultural Economics 242* Home department: AGRICULTURAL ECONOMICS				

DEPARTMENT OF BUSINESS MANAGEMENT

48550 BUSINESS MANAGEMENT				
113	**12**	**Business Management**	3L, 1P	**A & E**
Procedures for the establishment of a new business, the business environment, business ethics, competition, idea generation and entrepreneurship, choice of form of business, determining break-even levels, resources and people involved in the business, management and managerial resources. Home department: BUSINESS MANAGEMENT				
142	**6**	**The investment decision**	1.5L, 1P	**A & E**
The investment cycle; the role and functioning of the JSE Securities Exchange SA; investment risks; factors that influence share prices; fundamental and technical analysis of companies. *Continuous assessment.* Home department: BUSINESS MANAGEMENT				

58335 ENTREPRENEURSHIP AND INNOVATION MANAGEMENT				
214	**16**	**Introduction to entrepreneurship**	4L	**A & E**
Introduction to the world of entrepreneurship in South Africa; Drivers of entrepreneurship; introduction to the identification of opportunities and development of ideas; the analysis of the entrepreneurial process; feasibility analysis; building a new venture team; Assessing a new venture's financial strength and viability; ethics and legal considerations; getting finance; the importance of intellectual property; the importance of growth; growth strategies; buying an existing business. Home department: BUSINESS MANAGEMENT				
244	**16**	**Small business management**	4L	**A & E**
The scope and nature of small business development in South Africa; the important role of SMMEs in the South African economy; management of entrepreneurial opportunities; small business marketing management, purchasing, manufacturing and financial management; alternative routes to entrepreneurship; financing of opportunities in the market environment; management of growth of the small business; legal requirements which small businesses must adhere to; E-commerce and the entrepreneur; compilation of the business plan with the emphasis on the layout; different elements of the plan, balance sheet, income statement and cash flow statement; broad-based black economic empowerment and opportunities for SMMEs. *P Entrepreneurship and Innovation Management 214* Home department: BUSINESS MANAGEMENT				
318	**24**	**Creativity and innovation management**	4L	**A**
The importance of technological innovation; sources of innovation: creativity and organisational creativity; translating creativity into innovation; types and patterns of innovation; standards battles and design dominance; timing of entry; innovation strategies; choosing innovation projects; collaboration strategies; protecting innovation; introduction to the new product development process. *P Entrepreneurship and Innovation Management 214 or 244* Home department: BUSINESS MANAGEMENT				
348	**24**	**Strategic and corporate entrepreneurship (intrapreneurship)**	4L	**A**
Driving forces in the "new" economy that necessitate corporate entrepreneurship; link between entrepreneurship and strategic management; framework for entrepreneurial strategy; role of entrepreneurship in a large company and an analysis of the differences between entrepreneurship and intrapreneurship; factors which facilitate and inhibit intrapreneurship; the development of a framework for implementation of corporate entrepreneurship in South Africa. Entrepreneurial leadership; link between corporate entrepreneurship and performance. *P Entrepreneurship and Innovation Management 214 or 244* Home department: BUSINESS MANAGEMENT				

51047 FINANCIAL MANAGEMENT				
214	**16**	**Introduction to Financial Management**	3L, 1P	**A & E**
Compiling of the statement of financial position, the statement of comprehensive income and the statement of cash flow; the measurement and evaluation of financial performance with reference to profitability, liquidity and solvency analysis; case studies about financial analysis; introduction to the investment decision; the financing decision; sources of finance; the dividend decision; financial planning and the management of working capital with specific reference to cash, trade receivables and inventory control; financial failures; international financial management. *Subject to continuous assessment* *C Business Management 142 or* *Mathematics 114 or* *Mathematics (Bio) 124* Home department: BUSINESS MANAGEMENT				
244	**16**	**Corporate Financial Management**	3L, 1P	**A & E**
The evaluation and interpretation of corporate financial performance by means of detailed ratio analyses; extensive analysis of the statement of cash flows; basic share and bond valuation; discussion of the influence of dividend policy on corporate valuations; the influence of financing policy on a firm's value; evaluation of working capital management by means of the cash conversion cycle. *P Financial Management 214* Home department: BUSINESS MANAGEMENT				
314	**12**	**Financial planning and control**	2L	**A**
Calculation of the weighted average cost of capital, as well as the costs associated with the different capital components; financial valuation of enterprises; financial forecasting; the influence of inflation on annual financial statements. *C Financial Management 214* Home department: BUSINESS MANAGEMENT				
324	**12**	**Short-term insurance**	2L	**A**
Insurance management with special reference to the application of financial and risk management in the South African context; the financial significance of the basic principles of short-term insurance; financial management practices and annual financial statements of short-term insurers; the calculation of the office premium; the significance of the solvency margin for short-term insurers; types of short-term insurance; the financial aspects when obtaining short-term insurance as well as the claim procedure; the financial aspects of reinsurance; the government as an insurer; international aspects of insurance management. Home department: BUSINESS MANAGEMENT				

344	12	**Capital investments**	2L	**A**

The application of the following financial selection measures on large capital projects: payback period method, method of the equivalent uniform annual cost, net present value method and the internal rate of return method; the impact of inflation when assessing investment projects and the calculation of the cost of capital; priority determination for multiple mutually exclusive projects.

C Financial Management 214

Home department: BUSINESS MANAGEMENT

354	12	**Mergers and acquisitions**	2L	**A**

Processes during mergers and acquisitions; financial and strategic aspects; theories; relevance of competition and other legislation; empirical information; LBOs; MBOs; defensive strategies; joint ventures and alliances; unbundling; management guidelines.

C Financial Management 214

Home department: BUSINESS MANAGEMENT

59765 FINANCIAL PLANNING

214	16	**Financial planning**	4L	**A**

Introduction to life insurance; introduction to short-term insurance; introduction to retirement planning; marketing skills; practice management.

P Business Management 142
P Theory of Interest 152
P Statistical Methods 176 or
P Statistics 186 or
P Probability Theory and Statistics 114 or 144

Home department: BUSINESS MANAGEMENT

378	48	**Financial planning**	4L	**A**

A study of retirement annuities, pension and provident funds; a study of wills and estates; the investment planning process; employee benefit design and financing; introduction to medical schemes; introduction to business insurance; case studies which will encompass all the work done during the second and third years.

PP Financial Planning 214
C Investment Management 254
C Economics 214, 244
C Financial Accounting 288
C Mercantile Law (Commerce) 283

Home department: BUSINESS MANAGEMENT

55344 INVESTMENT MANAGEMENT				
254	**16**	**Introduction to investment theory**	3L, 1P	**A**
Portfolio theory and portfolio management; the relationship between risk and return; the efficient market hypothesis; valuation and risk of fixed income securities; evaluation of share investments; properties of derivative instruments; derivative strategies; valuation of options and futures; measurement and evaluation of portfolio returns. *P Business Management 142* *P Statistical Methods 176 or* *P Statistics 186 or* *P Probability Theory and Statistics 114 or 144* Home department: BUSINESS MANAGEMENT				
314	**12**	**Equity analysis and portfolio management**	1.5L, 0.5P	**A**
Theory of valuation; valuation models and techniques; practical implementation of valuation models; valuation variables; stock market analysis; industry analysis; company analysis and stock selection; technical analysis; equity portfolio management strategies. *P Investment Management 254* Home department: BUSINESS MANAGEMENT				
324	**12**	**Fixed income securities**	1.5L, 0.5P	**A**
Trading of fixed income securities; price sensitivity; fixed income securities in structured portfolios; indexing; liability funding; credit risk in corporate bonds; credit risk in international sovereign bonds; embedded options in bonds; securitisation; mortgage pre-payment; active portfolio management; economic analysis and management of bond portfolios. *P Investment Management 254* Home department: BUSINESS MANAGEMENT				
344	**12**	**Derived Financial instruments and Alternative investments**	1.5L, 0.5P	**A**
Exposure to and handling of Financial risk; the risk management process, the hedging concept; the functions of the treasury and the management of negotiable value; characteristics of derived financial instruments; strategies for the use of derived financial instruments; valuation of options and futures contracts; basic arbitrage strategies with options and futures contracts; swaps and forward rate agreements; alternative investments. *P Investment Management 254* Home department: BUSINESS MANAGEMENT				
348	**12**	**Real estate investment and financing**	4L	**A**
Introduction to the nature and scope of real estate; real estate markets and trends; legal aspects; financial and investment analysis in respect of the acquisition, ownership and sale of real estate; the role and impact of capital gains tax; market valuation approaches; types of real estate investment and financing instruments in the real estate market. *C Financial Management 214 or* *C Financial Accounting 178 or 188* Home department: BUSINESS MANAGEMENT				

354	12	International investment environment	4L, 1P	A

The international investment environment: organisation and functioning of international investment markets, international investment indexes; risk and return of international investments; advantages and disadvantages of international diversification; transaction costs in the international investment markets; investment analysis in international markets; investment in emerging markets. Business ethics: ethics code and professional standards of the CFA Institute; liability of investment practitioners towards the profession, employers; clients and the broad public; reporting of historical investment returns; responsible risk taking; risk control.

C Investment Management 254

Home department: BUSINESS MANAGEMENT

23795 MARKETING MANAGEMENT

214	16	Marketing management	3L, 1P	A & E

Modern marketing dynamics in enterprises and the community; marketing and the value creation process; customer satisfaction through quality and service; strategic marketing planning; analysis of the marketing environment; marketing information and research; analysis of consumer markets and other types of markets; measurement and forecasting of demand; market segmentation and target market selection; product decisions; price decisions; channel decisions and place strategy; communication decisions; direct marketing and sales promotion decisions.

C Financial Management 214 or
C Financial Accounting 278 or 288 or
C Biometry 212

Home department: BUSINESS MANAGEMENT

244	16	Advertising and sales promotion	3L, 1P	A & E

Advertising and the marketing process; the consumer audience; portfolio planning and research; functioning of advertising; advertising planning and strategy; advertising media; media planning and buying; printed media; creative advertising; integration of the elements of marketing communication.

P Marketing Management 214

Home department: BUSINESS MANAGEMENT

314	12	Retail management	2L	A

Retail strategy and the retailing mix; location decisions; merchandise decisions; price decisions; communication decisions; consumer services and information; technology and systems; franchise agreements.

P Marketing Management 214

Home department: BUSINESS MANAGEMENT

324	12	Services management	2L	A

Unique characteristics of services; nature and process of service delivery; differences between product and service evaluations; development, communication and delivery of services; service quality and measurement thereof; the role of service providers and the environment of service delivery; implementation of service-marketing strategies.

P Marketing Management 214

Home department: BUSINESS MANAGEMENT

344	12	**Marketing research**	2L	**A**

Defining of the marketing problem; research design; exploratory research design for secondary data and qualitative research; surveys and observations as part of descriptive research; measurement of perceptions; questionnaire design; sampling; fieldwork and data preparation; formulation of hypotheses and basic statistical tests.

P Marketing Management 214, 244
P Probability Theory and Statistics 144 or
P Statistical Methods 176 or
P Statistics 186

Home department: BUSINESS MANAGEMENT

354	12	**Strategic marketing**	2L	**A**

Function and application of marketing in different organisations and conditions; enterprise and marketing strategy; competitive marketing strategies; international marketing strategies; the marketing system; consumer markets and buying behaviour; institutional markets and buying behaviour; marketing planning processes; marketing controls.

P Marketing Management 214, 244

Home department: BUSINESS MANAGEMENT

11286 MANAGEMENT OF CORPORATE SOCIAL RESPONSIBILITY

314	12	**Management of Corporate Social Responsibility**	2L	**A & E**

Frameworks for planning and evaluating the actions of individuals and the organisation in the context of sustainable and socially responsible activities. Key themes covered include: Introduction to the concepts business ethics and Corporate Social Responsibility (CSR); Strategic management of stakeholder relationships; Voluntary and regulatory influences on CSR; CSR in a global environment; Managerial implications of specific South African CSR issues; Strategic approaches to managing CSR in organisations. The integration of socially responsible behaviour into other management disciplines, for example marketing, innovation, finance and investments.

P Business Management 113

Home department: BUSINESS MANAGEMENT

59587 STRATEGIC MANAGEMENT

344	12	**Strategic management**	1.5L, 0.5P	**A**

Strategic management challenges in complex environments; business models and strategy; strategic environmental analysis; strategic resources and capability analyses; strategic leadership; strategy development; knowledge, innovation and complexity management; strategy implementation; performance measurement and change management.

*C Business Management 113 **Not applicable for students in Forest Science*

Home department: BUSINESS MANAGEMENT

DEPARTMENT OF ECONOMICS

12084 ECONOMICS

114	**12**	**Economics**	3L, 1T	**A & E**

The economic problem: scarcity, priorities and opportunity cost. Introductory microeconomics: demand and supply and the determination of equilibrium in goods markets, production and cost theory, market structures and the theory of the firm, market failures and the role of the government.

Home department: ECONOMICS

144	**12**	**Economics**	3L, 1T	**A & E**

Introductory macroeconomics: income and production theory, the foreign sector and monetary economics. National Accounting and macroeconomic data. The South African economy: history and features.

C Economics 114

Home department: ECONOMICS

214	**16**	**Economics**	3L, 1T	**A & E**

Macroeconomics: the IS-LM-model, total demand and supply, inflation, monetary transmission mechanism, stabilisation policy.

Microeconomics: goods and factor markets, demand theory, production and cost theory, market structures and the theory of the firm, welfare theory.

PP Economics 114, 144

Home department: ECONOMICS

244	**16**	**Economics**	3L, 1T	**A & E**

South African monetary policy. International trade and finance: the theory of international trade, barriers to free trade, the World Trade Organisation and regional economic integration, the balance of payments, international financial markets, adjustment mechanisms, policy options, exchange rate determination, the international monetary system and South African exchange rate policy.

PP Economics 114, 144
C Economics 214

Home department: ECONOMICS

281	**32**	**Development Economics**	3L, 1T	**A**

This module consists of two parts.

Economic development in historical perspective:

- The economic problem, the emergence of market society, the Industrial Revolution, the Great Depression, modern capitalism, the rise and fall of socialism, globalisation, African underdevelopment and South African economic development.

Economic development and policy:

- Comparative economic development, theories of economic development, poverty and inequality, population growth, urbanisation and migration, rural development, education, health, the environment, economic policy and the role of the market, state and civil society.

Continuous assessment

PP Economics 114, 144 or 288

Home department: ECONOMICS

288	32	**Economics (Arts and Social Sciences)**	3L, 1T	**T**

The functioning of a mixed economic system: the economic problem, objectives and methodology; the functioning of the market mechanism: demand, supply and price determination; consumer choice; different markets and industries; the circular flow; macroeconomic policy; international trade and finance; growth and development The South African economy: the South African economic system and its historic development, South African economic institutions; financial markets, the labour market; macroeconomic policy-making, trade policy, regional integration, structural and development policy.

Continuous assessment

Home department: ECONOMICS

318	24	**Economics**	4L, 1S	**A**

Macroeconomics: economic growth, business cycle, monetary and fiscal policy. Quantitative economics: general data analysis, mathematical and econometric techniques, input/output analysis. Microeconomics: industrial structures, market structures, the theory of the firm, introduction to game theory.

PP Economics 214
P Economics 244

Home department: ECONOMICS

348	24	**Economics**	4L, 1S	**A**

This module focuses on the economic policy debate in a developing country. This includes economic policy criteria, structural characteristics of the South African economy, economic thought and systems, and growth and development policies, which include demand and supply aspects of economic growth, sectoral and spatial development, distribution of income and social expenditure, competition policy, environmental economics, labour policy, education and investment in human capital and the macroeconomic policy debate.

PP Economics 214
P Economics 244
C Economics 318

Home department: ECONOMICS

388	24	**Economics**	2L, 2T	**A**

Introductory applied econometrics: statistical concepts, the classical linear model of regression, multicollinearity, autocorrelation, heteroscedasticity, dummy variables, estimation of regression models.

Labour economics and labour econometrics: labour market, demand and supply, demographic tendencies, trade unions, the South African labour market. Management economics: mathematical techniques, analysis of demand, cost and production, price determination, introduction to linear programming.

South African economic issues.

Continuous assessment
PP Economics 214
P Economics 244
C Economics 318

Home department: ECONOMICS

381	24	**Institutional, Public and Environmental Economics**	2L, 2T	**A**
The module consists of 3 parts: institutional economics, public economics and environmental economics. Institutional economics: the role of formal and informal institutions, and their enforcement. The role of transaction costs and the protection of property rights. Public economics: the benchmark model of a market economy, market failure, public choice, government failure, taxation, intergovernmental fiscal relations. Environmental economics: economic explanations for environmental degradation; policy measures; application to a specific environmental issue. Continuous assessment *P Economics 214, 244 or 281* Home department: ECONOMICS				

DEPARTMENT OF INDUSTRIAL PSYCHOLOGY

10553 INDUSTRIAL PSYCHOLOGY				
114	**12**	**Industrial Psychology**	3L, 1P	**A & E**
The nature of Industrial Psychology and the its historical development in South Africa; the determinants of work performance and well-being; the different components of and directions within Industrial Psychology; the different roles of Industrial Psychologists; and the nature and role of research within the subject. The nature of organisational health and well-being, with reference to its determinants, its management and its enhancement, and the development of positive organisational behaviour. The role of work stress and coping with it; the management of performance dysfunctions; and the management of HIV/Aids in the workplace. Home department: INDUSTRIAL PSYCHOLOGY				
152	**6**	**Occupational Psychology**	1.5L, 0.5P	**A & E**
Domain demarcation, core concepts and fundamentals of Occupational Psychology, individual differences, developmental psychology. Career models, career development, career choice, entry into the world of work, early, mid and late career years, stress, diversity management, entrepreneurial careers, management and support systems. Home department: INDUSTRIAL PSYCHOLOGY				
162	**6**	**Ergonomics**	1.5L, 0.5P	**A & E**
Nature and history of Ergonomics, Context of Ergonomics (general and environment effects, legislation, management and productivity, built environment), perception and sensation (senses, observation, conscious and unconscious, memory and attention), work environment (space and shape, lighting, noise and vibration, temperature, atmospheric and chemical, processing information and design guidelines), input (displays), output (activities and rest), controls and tools, systems malfunction (errors, safety and health), introduction to Information Ergonomics (mental maps and usability), summary. Home department: INDUSTRIAL PSYCHOLOGY				

214	16	**Psychometrics**	3L, 1P	**A & E**

Introduction to psychometrics, introduction to and overview of the scientific research process, implications of Industrial Psychology's commitment to the scientific method. Measurement, measurement procedures and measuring instruments, psychological tests, types of psychological tests, psychological tests and decision making. Basic concepts in measurement and statistical analysis, psychological measurement, evaluation of psychological measuring instruments, statistical concepts. Scales of measurement, transformations and norms, expectancy tables. Reliability of psychological measures, sources of consistency and inconsistency in measures, general model of reliability, reliability estimation, reliability coefficients and the standard error of measurement, the generalisability of test scores. The use and interpretation of information on the reliability of measurements, the use of the reliability coefficient, factors that affect the reliability coefficient, special issues in measurement reliability. The validity of measurements – content and construct validity, types of validity, determining the validity of measurements, content validity, construct validity. The validity of measurements – criterion-related validity, decision making and prediction, criteria, criterion-related validity, interpretation of validity coefficients. Issues in the assessment of ability, bias and fairness in psychological assessment, culture-free measuring instruments, the nature-nurture debate on IQ. Psychological assessment in industry – predictor issues, extent and impact of psychological assessment in industry, different types of predictors, comparative evaluation of different types of predictors, a social and legal perspective on psychological assessment. Psychological assessment in industry – criterion problems, objective and subjective performance measures, selection utility.

Home department: INDUSTRIAL PSYCHOLOGY

224	16	**Consumer Behaviour**	3L, 1P	**A & E**

Introduction to consumer behaviour: diversity of consumer behaviour, consumer research, market segmentation. The consumer as an individual: consumer needs and motivation, personality, perception, learning and consumer involvement, attitudes and communication. The consumer in their social and cultural setting: group dynamics and family, social class, culture, sub-culture and cross-culture; Consumer decision-making process: consumer influence and the diffusion of innovations, consumer decision making.

Exposure to the application of theory in practice will take place through the studying of advertising.

Home department: INDUSTRIAL PSYCHOLOGY

244	16	**Human Resource Management**	3L, 1P	**A & E**

The field and context of personnel/human resource management, organisational positioning of the human resource management department, strategic human resource management, human resource planning, job analysis, recruiting, selection, induction, training and development, performance appraisal, basic remuneration, job evaluation, incentive payment, indirect compensation, labour turnover, absenteeism, human resource management information systems, safety and health, human resource accounting, flexitime, quality of work life, social responsibility, issues in and challenges to human resource management, human resource management audit, the role of human resource management in die economic and labour situation in South Africa – present and future.

Home department: INDUSTRIAL PSYCHOLOGY

314	12	**Labour Relations**	2L, 0.5S	**A**
Introduction and overview of field of study, historical development of labour relations, environmental influences of labour relations, trade unions, employers, state, labour relations in the work place (grievances, discipline and dismissal). Introduction to labour legislation: Labour Relations Act, Basic Conditions of Employment Act. *C Industrial Psychology 244* Home department: INDUSTRIAL PSYCHOLOGY				
324	**12**	**Human Resource Development**	2L, 0.5S	**A**
Introduction to training, education and development: an overview of the macro-factors that affect training and development in South Africa, the national training strategy of South Africa. Aspects of managing training in an enterprise: the place and role of the training function in the organisation, training models. The administration of training: training records and information systems, training costs and budgets. The theoretical aspects of learning: basic learning principles, adult learning, learning styles. Determining training needs: training needs assessment, models for determining training needs. Programme design: formulating training objectives, factors that affect course development, competency-based training. The evaluation of training. *C Industrial Psychology 244* Home department: INDUSTRIAL PSYCHOLOGY				
348	**24**	**Organisational Psychology**	4L, 1S	**A**
Individual behaviour: perceptions, personality, attitudes, values, cultural diversity, work motivation, behaviour modification, job design; group and inter-group behaviour; leadership, power and politics, managerial development, decision making, communication, organisational theory structure and design, organisational culture, organisational change and development. Home department: INDUSTRIAL PSYCHOLOGY				

Special modules presented by the Department of Industrial Psychology

36846 INDUSTRIAL PSYCHOLOGY (OCCUPATIONAL THERAPY)				
132	**6**	**Industrial Psychology (Occupational Therapy)**	2L	**T**
The human being as employee; human resource planning; recruitment; selection; placement and induction; communication; motivation; leadership in organisations; overview of labour relations. The module is designed for students in Occupational Therapy and these perspectives will be highlighted throughout. Home department: INDUSTRIAL PSYCHOLOGY				

65153 INDUSTRIAL PSYCHOLOGY (VISUAL ARTS)				
324	**16**	**Industrial Psychology (Visual Arts)**	3L	**T**
Introduction to advertising; advertising and society; advertising and marketing process; consumer audiences; account planning and research; how advertising works; advertising planning and strategy; advertising media: planning and buying; print; broadcast and interactive online. Creating advertising. Integrating marketing communication elements – promotions, public relations retail and international advertising. The integrated campaign. A Research project in conjunction with the Department of Visual Arts is required. *C Industrial Psychology 224* Home department: INDUSTRIAL PSYCHOLOGY				

44776 INDUSTRIAL PSYCHOLOGY (SPECIAL)				
244	**12**	**Industrial Psychology (Special)**	3L	**A**
Lectures are attended by BComm (Management Accounting) students. Human resource management: human resource planning, recruitment, selection, induction, training and development, performance appraisal, compensation management, labour turnover, absenteeism, health and safety. Labour relations: field of study, organised labour, role of employers; labour legislation. Organisational behaviour: introduction and orientation, organisational design, the individual, groups and teamwork, motivation, leadership, organisational effectiveness. Home department: INDUSTRIAL PSYCHOLOGY				
354	**12**	**Industrial Psychology (Special)**	2L, 1S	**E**
Human resource management: human resource planning, recruitment, selection, induction, training and development, performance appraisal, compensation management, labour turnover, absenteeism, health and safety. Labour relations: field of study, organised labour, role of employers; labour legislation. Organisational behaviour: introduction and orientation, organisational design, the individual, groups and teamwork, motivation, leadership, organisational effectiveness. Home department: INDUSTRIAL PSYCHOLOGY				

DEPARTMENT OF INFORMATION SCIENCE

The content and module codes of the subject Information Systems Management (ISM) are the same as for the subject Socio-Informatics. Additional information is available at http://www.informatics.sun.ac.za/ The subject presently falls in the category of scarce skills as defined by the government.

11852 INFORMATION SYSTEM MANAGEMENT				
224	**16**	**Introduction to computer programming**	2L, 2P	**A & E**
Principles of computer programming. Skills development in object-oriented program languages. Home department: INFORMATION SCIENCE				
254	**16**	**Internet Technology and Design**	1L, 3P	**A & E**
The internet and the world wide web. Architecture of hypertext systems. The design of websites and portals. Home department: INFORMATION SCIENCE				

262	**8**	**Electronic Business and Government**	1.5L	**A & E**
The management of private and public organisations in contexts rich in information and knowledge technology. Home department: INFORMATION SCIENCE				
314	**18**	**Database Systems**	3L, 2P	**A & E**
Database concepts, models, design and management. Home department: INFORMATION SCIENCE				
334	**18**	**Enterprise architecture**	2L, 3P	**A & E**
Theory of software and hardware systems and their analysis and design. Cybernetics. Introduction to modelling and modelling languages such as UML. Home department: INFORMATION SCIENCE				
354	**18**	**Information Systems**	2L, 3P	**A & E**
Advanced software applications, such as simulation and modelling. Integration of preceding modules through the design and presentation of an elementary, experimental system. Home department: INFORMATION SCIENCE				
364	**18**	**Knowledge Dynamics and Knowledge Management**	3L, 1P	**A & E**
Knowledge technology, knowledge based systems, artificial intelligence and knowledge dynamics in complex organisations. Home department: INFORMATION SCIENCE				

DEPARTMENT OF LOGISTICS

50407 LOGISTICS MANAGEMENT				
214	**16**	**Logistics Management**	3L, 1P	**A & E**
Introduction to Logistics Management: the role of logistics in the firm, the elements of logistics, integrated logistics management, channels of distribution, client/customer service, strategic aspects of logistics management, organisation for effective logistics, international logistics, new trends. *P Business Management 113* Home department: LOGISTICS				
244	**16**	**Logistics Management**	3L, 1P	**A & E**
Business logistics: private (own) logistics, the outsourcing decision, professional logistics, transport management and operations, arrangement of the supply chain. *PP Business Management 113* *PP Logistics Management 214* Home department: LOGISTICS				

318	24	Logistics Management	4L	A

Logistics planning and organisation: Development, role and positioning of logistics within an organisation and the economy. Strategic and tactical aspects of logistics planning. Nature, output and contribution of logistics as well as the interactions and the underlying relationship between logistics activities. Contribution of logistics to the competitive advantage of an organisation.

PP Logistics Management 214, 244
P Economics 114, 144
PP Statistical Methods 176 or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144

Home department: LOGISTICS

348	24	Logistics Management	2L	A

Logistics control: logistics cost management. Coordination of supply chains. Monitoring and control of logistics performance. Measures of evaluation; the measurement of efficiency, effectiveness and financial productivity.

Client/customer requirements versus achievable logistics performance. Review of logistics goals and objectives.

PP Logistics Management 214, 244, 318

Home department: LOGISTICS

55336 OPERATIONS RESEARCH

214	16	Network Optimisation	3L, 3P	A

Introduction to network modelling. Time and space complexities of algorithms by means of order notation, heuristics *vs.* exact methods, connectedness of directed and undirected networks, shortest paths (algorithms of Dijkstra and Floyd), longest paths (project scheduling), shortest spanning trees (algorithms of Kruskal and Prim), location problems (generalised centres and medians), maximum flow problems. Applications using suitable software.

PP Mathematics 114, 144 (No Quantitative Management modules may be taken in combination with Operations research modules)
Home department: LOGISTICS

244	16	Linear Programming	3L, 3P	A

Modelling by means of linear programming. Geometry of LP's, properties of solutions, fundamental theorem of LP, simplex algorithm, big M and two-phase-methods, sensitivity analysis, duality and complementary slackness, special cases of the simplex algorithm (transport, transhipment, assignment and minimum cost flow). Dynamic programming. Applications using suitable software.

PP Mathematics 114, 144 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

314	16	**Combinatorial Optimisation**	3L, 3P	**A**

Algorithmic complexity (recursion, P & NP complexity classes, NP-completeness), binary and integer programming (branch-and-bound methods), heuristics (*n*-Opt procedures). Applications with respect to assignment problems, colouring problems, covering problems and domination problems, Hamiltonian graphs (the travelling salesman problem). Applications using suitable software.

P Operations Research 214, 244 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

324	16	**Multi-criteria Decision Analysis**	3L, 3P	**A**

Problem structuring and modelling, preference modelling (measurement theory, utility theory, aspiration levels, ranking, relative importance of criteria), value function methods (values of alternatives with respect to different criteria, pair-wise comparisons of alternatives, determining weights for criteria, sensitivity and robustness of solutions, the AHP), goal programming (minimising the deviation from goals under different norms), ranking techniques (the ELECTRE suite, the PROMETHEE method), aspects of practical implementation. Applications using suitable software.

P Operations Research 244 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

344	16	**Nonlinear Optimisation**	3L, 3P	**A**

Introduction to optimisation and functions in R*n*, unconstrained optimisation (search methods and gradient methods), constrained optimisation (Lagrange multipliers, necessary and sufficient conditions), duality, special cases (quadratic programming, separable optimisation), geometric optimisation. Applications by means of suitable software.

Continuous assessment.

P Operations Research 244 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

354	16	**Stochastic Methods of Operations Research**	3L, 3P	**A**

Queuing theory (modelling of arrival and service processes, birth-death processes, single and multiple server queues, finite population, constant service time, open queue networks, priorities, chi-squared test), Markov-analysis, simulation (random numbers, continuous random variables, Monte Carlo simulation, discrete random event simulation, analysis of output). Introduction to forecasting. Introduction to inventory theory. Applications using suitable software.

PP Probability Theory and Statistics 114 or 144 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

51993 PROJECT MANAGEMENT				
378	**24**	**Project management**	2L	**A**

Project lifecycle, planning, organisation (scheduling, resource allocation and cost management) and control. Quality management, risk, communication, human resource aspects and project contract management.

(Only final-year students may enrol for this module.)

Continuous assessment.
Home department: LOGISTICS

58351 QUANTITATIVE MANAGEMENT				
214	**16**	**Quantitative Management**	3L, 2T	**A & E**

Networks: definition, development and testing of quantitative models. Optimisation of network models (minimum spanning tree, shortest and longest routes, maximum flow and minimum cost network flow problems).

Project scheduling (PERT and CPM). Introduction to routing (travelling salesman and Chinese postman problems). Location of facilities (median problems, centre problems and problems with restrictions). Problem solving with applicable software.

PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144 or
PP Statistical Methods 176 with a final mark above 60%
(No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

244	**16**	**Quantitative Management**	3L, 2T	**A & E**

Introduction to Optimisation and Modelling: Linear programming (revision, graphical methods, simplex algorithm, duality and sensitivity). Modelling with linear programming. Transportation (modelling, transportation-simplex algorithm).

Deterministic inventory control (ABC analysis, economic order quantity, quantity discounts, non-zero lead time, continuous production models, back orders). Problem solving with applicable software.

PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144 or
PP Statistical Methods 176 with a final mark above 60%
PP Quantitative Management 214 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

318	24	Quantitative Management	4L, 2T	A

Optimisation and Decision Theory

Optimisation: Integer programming (modelling of 0-1, integer and mixed integer problems, branch-and-bound method). Non-linear programming problems. Assignment and transhipment problems. Goal programming. Dynamic programming (formulation and solution using networks).

Decision Theory: Decision analysis (basic concepts, risk and uncertainty, multi-criterion decision analysis, break-even analysis, marginal analysis, decision trees, utility theory, sensitivity analysis). Game theory. Financial and economic investment planning (principals of interest calculations, nominal and effective interest rates, evaluation methods and selection measures, replacement decisions). Decision trees and linear programming models in financial decision theory.

PP Quantitative Management 214, 244
PP Theory of Interest 152 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

348	24	Quantitative Management	4L, 2T	A

Production and Stochastic Modelling

Production Modelling: Introduction to forecasting (revision of the methods of Holt and Winter, and linear regression). Computer applications of forecasting. Quality control (central limit theorem, confidence intervals, control charts). Applications in the manufacturing and service sectors. Production scheduling. Supply chain coordination, MRP, JIT. Problem solving with applicable software.

Stochastic Modelling: Markov analysis (states, matrix of transition probabilities, equilibrium conditions). Queuing theory (modelling of arrival and service processes, birth-death processes, single and multiple service points, finite population, constant service times). Simulation (random numbers, Monte Carlo simulation, discrete event simulation, analysis of simulation output). Simulation of inventory and queuing models. Application with spreadsheets and simul8.

PP Quantitative Management 214, 244 (No Quantitative Management modules may be taken in combination with Operations research modules)

Home department: LOGISTICS

59080 SUPPLY CHAIN MANAGEMENT				
144	12		3L, 1P	A & E

The scope of product supply chains; aspects of utility and value creation; aspects of materials management, including resource and inventory acquisition; aspects of production and operations management; aspects of physical distribution management; conforming to customer requirements with respect to product supply and delivery.

P Business Management 113

Home department: LOGISTICS

21008 TRANSPORT ECONOMICS				
214	**16**	**Transport Economics**	3L, 1P	**A & E**

Introduction to transport economics: Role and functions of transport. Nature of the transport demand. Economic, physical and service characteristics of air, road rail, sea and pipeline transport, as well as pipelines. Cost principles and dilemmas of different forms of transport. Economic efficiency in the transport market. Evolution of freight transport regulation.

PP Economics 114, 144

Home department: LOGISTICS

244	**16**	**Transport Economics**	3L, 1P	**A & E**

Introduction to urban transport economics: Economic characteristics of the provision of urban transport. Impact of transport cost on land use, land price, product prices and industrial location. Urban transport problems and solutions. Urban transport planning. Urban transport systems. Cost structure of urban transport modes. Tariff determination in the public transport sector. Subsidisation of passenger transport. Competition and regulation in the passenger transport industry. Urban transport policy and legislation in South Africa.

P Transport Economics 214
PP Economics 114, 144

Home department: LOGISTICS

318	**24**	**Transport Economics**	4L	**A**

Transport systems analysis and modelling, including transport demand analysis and forecasting of goods and passenger transport requirements. Planning and provision of transport infrastructure. Calculation, allocation and recovery of infrastructure cost. Determination of road user and non-road user benefits. Infrastructure evaluation.

PP Statistical Methods 176 or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144 or
PP Mathematics 114, 144
PP Transport Economics 214, 244

Home department: LOGISTICS

348	**24**	**Transport Economics**	4L	**A**

Government interest in and the regulation of transport operations. Government involvement in transport planning and policy analysis. Modal cost and market structures. Transport price setting. Performance evaluation of traffic and transport systems from a macro-economic point of view.

PP Statistical Methods 176 or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144 or
PP Mathematics 114, 144
PP Transport Economics 214, 244

Home department: LOGISTICS

DEPARTMENT OF MATHEMATICAL SCIENCES (MATHEMATICS, APPLIED MATHEMATICS, COMPUTER SCIENCE)

Division: Computer Science

18139 COMPUTER SCIENCE

114	**16**	**Introductory Computer Science**	3L, 3P	**T**

Introduction to basic computer programming; formulation and solution of problems by means of computer programming; data representation and variable types (including character strings, integers, floating point numbers and Boolean variables); assignment statements; conditional execution and iteration; static data structures (arrays and records); input and output (including graphics and sound); modular programming; recursion; testing and debugging; introduction to object-oriented programming (including abstraction, encapsulation and use of existing object implementations).

Continuous assessment
C Mathematics 114

Home department: COMPUTER SCIENCE

144	**16**	**Introductory Computer Science**	3L, 3P	**T**

Further formulation and solution of problems by means of computer programming; introductory data structures and algorithms in an object-oriented set-up; key concepts in object orientation: inheritance and polymorphism; design patterns as abstractions for the creation of reusable object-oriented designs; searching and sorting algorithms; complexity theory for the analysis of algorithms; fundamental methods in the design of algorithms; dynamic data structures; regular expressions and finite automata.

Continuous assessment
P Computer Science 114

Home department: COMPUTER SCIENCE

214	**16**	**Data Structures and Algorithms**	3L, 3T	**T**

The classical data structures and algorithms in an object-oriented set-up. Advanced techniques for the analysis of algorithms.

Continuous assessment

PP Computer Science 144
P Mathematics 114, 144

Home department: COMPUTER SCIENCE

242	**8**	**Database**	1.5L, 1.5T	**T**

Introduction to relational databases.

Continuous assessment
PP Computer Science 114, 144

Home department: MATHEMATICAL SCIENCES

252	**8**	**Low-Level Programming**	1.5L, 1.5T	**T**

Basic computer architecture. Programming in machine language and assembly language. Assemblers, binders and loaders.

Continuous assessment
C Computer Science 214

Home department: MATHEMATICAL SCIENCES

314	**16**	**Concurrency**	3L, 3P	**T**

Introduction to programming techniques and principles of concurrent systems, from operating systems to application programs. This includes communication, synchronisation, scheduling and load balancing. Several parallel and distributed architectures will be covered.

Continuous assessment
P Computer Science 214, 244

For programmes in Engineering:
P Computer Science E 214
P Computer Systems 245

Home department: COMPUTER SCIENCE

324	**16**	**Theoretical Computer Science**	3L, 3P	**T**

In 2011 this module will only be offered for students repeating it.
Selected topics from the theories of automata, formal languages, computability and complexity.

Continuous assessment
P Computer Science 214

Home department: COMPUTER SCIENCE

344	**16**	**Program Design**	3L, 3P	**T**

Program specifications as guidelines for program design; reusable frameworks for program design; testability of program designs; development of a medium-sized system to illustrate the practical application of the principles of program design.

Continuous assessment
P Computer Science 214, 244

For programmes in Engineering:
P Computer Science E 214
P Computer Systems 245

Home department: COMPUTER SCIENCE

354	**16**	**Computer Networks**	3L, 3P	**T**

Introduction to networks in general and the internet in particular. Architecture and protocols. Allocation of resources and congestion control. Network security. Applications.

Continuous assessment
P Computer Science 214, 244

For programmes in Engineering*:*
P Computer Science E 214
P Computer Systems 245

Home department: COMPUTER SCIENCE

Division: Mathematics

21539 MATHEMATICS				
114	**16**	**Calculus**	5L, 2T	**A & E**
Induction and the binomial theorem. Functions, limits and continuity; derivatives and rules of differentiation; applications of differentiation; the definite and indefinite integral; integration of elementary functions. Home department: MATHEMATICS				
144	**16**	**Calculus and Linear Algebra**	5L, 2T	**A & E**
Complex numbers; transcendental functions; techniques of integration; improper integrals; conic sections; partial derivatives; introduction to matrices and determinants. *P Mathematics 114* Home department: MATHEMATICS				
214	**16**	**Analysis and Linear Algebra I**	4L, 2T	**A**
Analysis: improper integrals, sequences and series, power series and Taylor's theorem, second-order linear differential equations. Linear algebra: vectors in n dimensions: linear transformations of real vector spaces and their matrices; geometric transformations: rotation, reflection, dilation, projection; composition of transformations. General real vector spaces: subspaces, linear independence, basis, dimension; rank and nullity of a matrix. General inner-product matrices; orthogonality, orthonormal bases, projections, the Gram-Schmidt process; QR factorisation of a matrix; least squares approximations; orthogonal matrices. *PP Mathematics 114, 144* Home department: MATHEMATICS				
244	**16**	**Analysis and Linear Algebra II**	4L, 2T	**A**
Analysis: functions of more than one real variable, multiple integrals, line integrals, surface integrals, the divergence theorem. Linear algebra: eigenvalues and eigenvectors, diagonalisation of a real matrix; orthogonal diagonalisation; linear transformations of general real vector spaces; matrix representation of linear transformations between general finite dimensional vector spaces; change of basis; systems of first order differential equations and other applications. *P Mathematics 214* Home department: MATHEMATICS				
314	**16**	**Algebra**	3L, 3T	**A**
This module is an introduction to the basic axiomatic structures of algebra. These structures provide the natural surroundings for the discussion of many of the most important results in number theory, algebraic geometry and computational algebra. Among others, the following are studied: groups, rings, residue classes modulo n, quotient rings and fields, rings of polynomials, Euclidean domains, unique factorisation domains, extensions of fields, applications to straight-edge and compass constructions, finite fields and their applications. *PP Mathematics 214, 244* Home department: MATHEMATICS				

324	**16**	**Analysis I (Introductory Topology and Complex Analysis)**	3L, 3T	**A**

Metric spaces: Basic topological concepts, continuity, compactness, sequences, the limsup of sequences in **R**.

Complex analysis: Types of sets in **C**, convergence of series, point wise and uniform convergence of sequences and series of functions, paths, Cauchy-Riemann equations, determination of the radius of convergence and coefficients of a power series, the complex exponential and trigonometric functions, arguments, complex logarithms and exponentiation, integration of continuous functions along piecewise smooth paths, Cauchy's theorem and formula, Taylor series expansion of differentiable functions, analytic functions, zeros, Liouville's theorem, proof of the Fundamental Theorem of Algebra, Laurent series, identification and classification of isolated singularities, calculation of residues, the Residue theorem, applications.

PP Mathematics 214, 244

Home department: MATHEMATICS

344	**16**	**Discrete Mathematics**	3L, 3T	**E**

Discrete Mathematics, or "Concrete Mathematics", as it is called in a famous book, deals with concrete objects that are inherently discrete is, such as permutations, sets, trees and words. Emphasis will be placed on enumeration techniques. An introduction to elementary number theory will also be presented. In this part of the module, classical topics such as Fermat's theorem, Wilson's theorem or Lagrange's theorem on sums of four squares are treated.

PP Mathematics 214, 244 or equivalent modules

Home department: MATHEMATICS

354	**16**	**Computational Mathematics and Approximation Theory**	3L, 3T	**A**

The existence and uniqueness of best approximations in normed linear spaces and inner-product spaces; the Lesbesgue inequality; polynomial interpolation: the Lagrange formula, Newton's divided differences formula, the Vandermonde matrix; Bernstein polynomials and the theorem of Weierstrass; best Chebyshev polynomial approximation; best approximation in an inner-product space: a characterisation theorem; orthogonal polynomials; interpolating quadrature: Newton-Cotes and Gauss formulae; Fourier series and their convergence; splines: the truncated powers basis, the B-spline basis, the Schoenberg-Whitney theorem, local spline approximation operators.

PP Mathematics 214, 244 or equivalent modules

Home department: MATHEMATICS

364	**16**	**Euclidean and Non-Euclidean Geometry**	3L, 3T	**A**

(This module is not a mainstream Mathematics 3 module and is only available within the BSc (Ed) programme.)

One of the oldest and historically most important parts of mathematics is presented from a strong historical perspective. Beginning with Euclid's postulates, his geometry is constructed as an axiomatic system. Hilbert's work in making it into a consistent, independent and complete system of axioms is covered. The introduction of non-Euclidean geometry and the resultant reformulation of the fundamental results of Euclidean geometry are also covered. In the presentation of the module a great deal of emphasis is placed on the independence and self-exertion of the student.

PP Mathematics 114, 144

Home department: MATHEMATICS

365	**16**	**Analysis II (Introductory Topology and Real Analysis)**	3L, 3T	**A**

Metric and topological spaces: building on concepts covered in Mathematics 324. Some concepts and results from analysis (among others real analysis) and topology will be covered.

PP Mathematics 214, 244

Home department: MATHEMATICS

56847 FINANCIAL MATHEMATICS

378	**32**	**Financial Mathematics**	3L, 3T	**A**

Matrix algebra and matrix differentiation. Taylor's theorem for functions of more than one variable, differential equations and numerical methods, Riemann-Stieltjes integrals, introduction to measure and probability spaces, Radon-Nikodym derivatives, L2 spaces and Hilbert spaces, mathematical modelling of financial markets, the Black-Scholes model.

PP Mathematics 214, 244
P Mathematical Statistics 214, 244

Home department: MATHEMATICS

58378 MATHEMATICS FOR STATISTICS

214	**16**	**Mathematics for Statistics**	3L, 2T	**A**

Calculus:
Introductory concepts about functions, exponential functions, logarithmic functions, limits, continuity, derivatives, higher order derivatives, the derivative as a rate of change, optimisation problems, indefinite and definite integrals, the Fundamental Theorem of Calculus, areas between curves, substitution, integration by parts.

Linear algebra:
Gauss elimination, matrix algebra, inverse of a matrix, determinants of matrices, vectors in $\mathbf{R}^3$: rules of computation, unit vectors, linear combinations of vectors, linear independence and bases, dot product. The binomial theorem.

C Statistics 214

Home department: MATHEMATICS

DEPARTMENT OF MERCANTILE LAW

35998 MERCANTILE LAW (COMMERCE)				
253	**8**	**Mercantile Law (Commerce)**	3L, 1T	**A**
Basic principles of entrepreneurial law. *PP Mercantile Law (Acc) 193 or* *Mercantile Law (Commerce) 284* Home department: MERCANTILE LAW				
283	**32**	**Mercantile Law (Commerce)**	3L, 1T	**A**
General introduction to legal science and the South African law; general principles of contract law and specific contracts; general principles of entrepreneurial law, law of insolvency, labour law and resolution of commercial disputes. *Note* Mercantile Law 283(32) students who wish to register for Mercantile Law 381(24) and/or Mercantile Law 382(24) in their next year of study will normally only be allowed to do so if they have passed Mercantile Law 283 with an average of 60% or higher. Home department: MERCANTILE LAW				
284	**32**	**Mercantile Law (Commerce)**	3L, 1T	**A**
Essential elements of the South African legal system; law of obligations (law of contracts; law of delict; agency); employment law; entrepreneurial law (business entities and formation, financing of companies; company management, corporate governance and related ethical issues). *Note* Only students in the programmes BComm (Financial Accounting) and BComm (Management Accounting) may register for Mercantile Law (Commerce) 284 Home department: MERCANTILE LAW				

SPECIAL MODULES IN MERCANTILE LAW FOR BACC AND BCOMM (MANAGEMENT ACCOUNTING) STUDENTS

58432 MERCANTILE LAW (ACC)				
193	**24**	**Mercantile Law (Accounting)**	3L, 1T	**A**
Sources of South African Law and fundamental concepts; general principles of contract law, agency, specific contracts (sale, lease and credit agreements); labour law; insolvency law and security; instruments of payment. Home department: MERCANTILE LAW				
292	**24**	**Mercantile Law (Accounting)**	2L, 0.5T	**A**
The legal principles regarding companies, close corporations, trusts and partnerships. *P Mercantile Law (Acc) 193* Home department: MERCANTILE LAW				
254	**12**	**Mercantile Law (Accounting)**	3L, 1T	**A**
Labour Law; insolvency law and security; instruments of payment. *Note* Transitional module in 2007 and 2008 for students who failed Mercantile Law (Accounting) 291 in 2006 or who took the prerequisite module Mercantile Law (Accounting) 192 in 2006. Mercantile Law (Accounting) 192 also serves as a prerequisite for Mercantile Law (Accounting) 254.				

SCHOOL OF PUBLIC LEADERSHIP

48003 PUBLIC AND DEVELOPMENT MANAGEMENT

Public and development management

114	**12**	**Orientation to Development, Society and State**	3L	**A & E**

Introduction to development, society and State as foci of Development Management, through an emphasis on

- contextualising development (interdisciplinary nature, poverty and theories);
- institutional role players in development (public sector, private sector, NGOs and unions);
- development management in practice (strategies, including integrated development planning and public participation);
- development management and action research

Home department: SCHOOL OF PUBLIC LEADERSHIP

144	**12**	**Public Management and Policy**	3L	**A & E**

- The managerial task of the public manager, the public management environment, public management functions, policy-making, planning, organising, leadership, motivation, control, evaluation and public management skills
- The nature of public policy, governance, development, sustainability and good policy practices (environmental, social, economic and political development)

Home department: SCHOOL OF PUBLIC LEADERSHIP

212	**8**	**Development Theory and Paradigms**	1.5L	**T**

Critical assessment of the main development theories and paradigms, including modernisation, dependency, post-development, sustainable development.

Home department: SCHOOL OF PUBLIC LEADERSHIP

222	**8**	**Government**	1.5L	**T**

Macro-organisation of the State, separation of powers, theories of the State (new public management, network theories, co-operative governance, liberal, radical and developmental theories of the State), integrated public management, practical applications at national, provincial and local government levels, and the moral and ethical bases of the State.

Home department: SCHOOL OF PUBLIC LEADERSHIP

242	**8**	**Development Policy Frameworks**	1.5L	**T**

Focus on the following development related areas with the intention of allowing learners to think about possible development strategies that can be introduced in each area in order to bring about positive change. The aim and focus of this module will relate to theoretical issues relative to practical challenges. Selected macro development issues will be analysed. These issues include:

- An introduction in macro-development strategies in the South African context
- Development dimensions: economic and social development and the role of the State in a global context: RDP and GEAR
- Urban and rural development management – urban renewal and rural development strategy
- Sustainable development/the natural environment and development

Home department: SCHOOL OF PUBLIC LEADERSHIP

252	8	The Public Policy Process	1.5L	T
Studies public policy and developmental policy by analysing the process through which public policy is formulated, policy agenda setting, policy option generation, policy implementation, policy evaluation, policy impact assessment and policy change. Home department: SCHOOL OF PUBLIC LEADERSHIP				
314	**12**	**Micro-development Management Strategies**	1.5L	**T**
− Micro-level strategies of development management practice integrating appropriate development theory, strategy, management and policy principles in a holistic, interdisciplinary way − Integrated development planning (IDP) in the context of Developmental Local Government, through community development, planning and project management at micro-level, functions of the change agent, the Community Development Worker Programme, public participation strategies, the social learning process, capacity-building, empowerment and sustainable development at a micro/local government level − The relevance of qualitative research and indigenous knowledge systems for community development and project management *PP Public and development management 114, 144, 212, 222, 242, 252* Home department: SCHOOL OF PUBLIC LEADERSHIP				
324	**12**	**Public Management Strategies**	1.5L	**T**
This module explores the strategic nature and integrity of whatever is planned, executed and evaluated to achieve good governance, through a focus on − Strategic function: definition, planning, execution and evaluation of the purpose of an initiative by means of strategic planning as well as programme and project management techniques; − Resources: strategies for utilisation of financial, human and information resources in serving the purpose; and − Structure: The utilisation of organisational development (OD) techniques to acquire the appropriate organisational framework by which the purpose is served. *PP Public and development management 114, 144, 212, 222, 242, 252* Home department: SCHOOL OF PUBLIC LEADERSHIP				
348	**24**	**Integrated Development, Policy and Management Theory and Practice Capstone**	1.5L	**T**
The study of topical issues in public and development management and integrated governance like, for example, issues concerning ethics, housing, public and private partnerships, alternative service delivery, organisational change, performance management and transformation and regulatory and environmental governance (capita selecta). *PP Public and development management 114, 144, 212, 222, 242, 252* Home department: SCHOOL OF PUBLIC LEADERSHIP				

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

56820 PROBABILITY THEORY AND STATISTICS				
144	**16**	**Probability Theory and Statistics**	3L, 3T	**A & E**

Combinatorial analysis; the basic counting principles; permutations and combinations. Random phenomena; sample spaces and events; the probability axioms; the probability of an event; random selection; probability rules; conditional probability; the rule of Bayes; stochastic independence. Discrete and continuous stochastic variables; expected value and variance of a stochastic variable; important discrete distributions: binomial, Poisson, geometric, hyper-geometric, negative binomial; important continuous distributions, uniform, exponential, normal

Home department: STATISTICS AND ACTUARIAL SCIENCE

22853 MATHEMATICAL STATISTICS				
214	**16**	**Univariate Distribution Theory and Statistical Inference**	4L, 2P	**A**

Further continuous distributions: gamma- and beta distributions. Moments and moment-generating functions for discrete and continuous distributions. Determine distributions of functions of variables with moment-generating functions. The central limit theorem (without proof). Samples and sampling distributions: the standard parametric cases. Principles of point estimation: the Cramer-Rao theorem and its application, efficiency, minimum variance unbiased estimators, consistency. Method-of-moments estimators. Maximum likelihood estimators. Interval estimation and hypothesis testing: applying these principles in various standard cases of parametric inference. The Neyman-Pearson lemma: proof and applications. Likelihood ratio tests. Data representation and description, calculating and interpreting sample measures.

PP Mathematics 114, 144
PP Probability Theory and Statistics 114 or 144

Home department: STATISTICS AND ACTUARIAL SCIENCE

244	**16**	**Bivariate Distribution Theory and Sampling Theory**	4L, 2P	**A**

Bivariate probability distributions. Marginal and conditional distributions. The multinomial distribution and the bivariate normal distribution. Bivariate transformations. Sampling theory: sampling techniques in finite and infinite populations, surveys and sequential analysis. Introduction to nonparametric statistical analysis.
The relationship between two random variables: the correlation coefficient and the regression function. The method of least squares. Inference in the simple linear regression model. Introduction to multiple regression analysis: underlying assumptions, influential points and robust regression techniques. One- and two way analysis of variance and introduction to categorical data analysis. Introduction to R software for matrix operations, regression- and variance analysis.

PP Mathematical Statistics 214

Home department: STATISTICS AND ACTUARIAL SCIENCE

318	**32**	**Probability, Inference and Linear Models**	6L, 2P	**A**

Advanced distribution theory, sequences of random variables, limit theory for sequences, generating functions, sampling distributions. Different approaches to inference.

Parametric estimation theory and hypothesis testing, goodness-of-fit tests, non-parametric inference. Bayes inference. Decision theory.

Stochastic vectors and the multivariate normal distribution. The general linear model: estimation and error spaces, sums of squares and quadratic forms, Cochran's theorem. Projections. Model identification, estimable functions, best estimators, Gauss-Markov theorem. Testability of hypotheses, hypothesis testing, confidence regions and simultaneous confidence intervals. Analysis of covariance. The use R software for covariance analysis and application of the general linear model in practice.

PP Mathematical Statistics 214, 244
P Mathematics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

344	**16**	**Stochastic Processes**	3L, 1P	**A**

Introduction to stochastic processes. Markov chains, Markov processes and their applications. Markov jump processes. Elementary martingale theorem and applications. Brownian movements. Renewal theory.

P Mathematical Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

354	**16**	**Linear Models, Variance Components Models and Generalised Linear Models**	3L, 1P	**A**

Analysis of covariance: Tests of equality of factor effects with parallel and non-parallel regression lines. Components of variance model: Estimation of the various components of variance, hypothesis testing. One-way and two-way (with and without interaction) models.

Exponential family of distributions: Canonical form, expected value and variance function, likelihood function.

Generalised linear models: Linear predictors, link functions, maximum likelihood estimators, Fisher scoring, information matrix, iterative weighted least squares, sampling distributions of score statistics, m.l. estimators and deviance, Taylor series expansions, hypothesis testing.

Applied generalised linear models: Logistic regression, Poisson regression, survival analysis.

The programming language R for implementing covariance analysis, components of variance models and generalised linear models in practice.

P Mathematical Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

364	16	Time Series	3L, 1P	A

Stationarity, filters for time series, autoregressive, moving average, autoregressive moving average and autoregressive integrated moving average time series, shift operators for time series, model identification and estimation and diagnostic testing of time series, multivariate time series, non-stationarity and non-linearity of time series. Applications of time series, with emphasis on econometrics and investments.

P Mathematical Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

19658 STATISTICS

Note

To major in Statistics for a BComm degree, the modules Statistics 186 or Statistical Methods 176, Statistics 214, 244, Mathematics for Statistics 214 and Statistics 318, 348 are required.

186	18	Introduction to Statistics	4L	A & E

Linear programming: Graphical techniques to solve problems with two variables; Shadow prices; Sensitivity analyses.

Sampling techniques: Simple random; Stratified; Systematic; Cluster; Probability proportional to size.

Descriptive Statistics: Various data types; Stem-and-leaf representations; Frequency distributions; Graphical representation of data (histograms, polygons, bar and pie charts); Descriptive measures of location, spread and association (mean, median, mode, percentiles, variance, standard deviation, coefficient of correlation); Box plots.

Probability theory: Basic probability concepts (sample spaces, events, addition and multiplication rules, conditional probabilities, probability trees, contingency tables); Bayes' theorem; Counting rules.

Discrete random variables and probability distributions: Expected value, variance and standard deviation of a discrete random variable; Covariance between discrete random variables; Portfolio management; Binomial and hypergeometric distributions.

Basic calculus: Introduction to differentiation and integration with simple applications.

Continuous random variables and probability distributions: Expected value, variance and standard deviation of a continuous random variable; Normal distribution.

Sampling distributions: Central limit theorem; Sampling distributions of the mean, a proportion and the variance; Sampling distribution of the difference between two means.

Inferential Statistics: Interval estimation and hypothesis testing for the mean, a proportion, the variance and the standard deviation; Interval estimation and hypothesis testing for the difference between two means and the ratio of two variances; Applications of interval estimation in auditing.

Regression analysis: The simple linear regression model; The method of least squares estimation; Inference on the model parameters and coefficient of correlation; Residual analysis.

Time series analysis: Components of a time series; Smoothing; Least squares trend fitting and forecasting; Index numbers.

Differences between Statistics 186 and Statistical Methods 176:

In Statistics 186 and Statistical Methods 176 similar statistical techniques are covered. However, in Statistics 186 basic mathematical techniques are revised and expanded, which are not covered in Statistical Methods 176. The Statistics 186 module is a normal

exam written module with three tests that are written during the year and a final examination written at the end of the year. The Statistical Methods 176 module is a more practical module that focuses on applications in Excel and computer assignments. These assignments form an important component, 40% of the module, of this continuously assessed module.

Home department: STATISTICS AND ACTUARIAL SCIENCE

214	**16**	**Applied Statistics**	3L, 2T	**A**

Sampling techniques: Simple random; Stratified; Systematic; Cluster; Probability proportional to size.

Descriptive Statistics: Various data types; Frequency distributions; Contingency tables; Graphical representation of data (histograms, polygons, bar charts, pie charts); Descriptive measures of location and spread (mean, median, mode, variance, standard deviation, coefficient of variation, percentiles); Approximate measures for grouped data; Box plots; Measure of association (coefficient of correlation); Determining the regression line.

Probability theory: Basic probability concepts (sample spaces, events, addition rules, multiplication rules, conditional probabilities, contingency tables); Bayes' theorem; Counting rules.

Discrete random variables and probability distributions: Expected value, variance and standard deviation of a discrete random variable; Correlation between discrete random variables; Joint, marginal and conditional distributions; Distribution of the sum of variables; Binomial and Poisson distributions.

Continuous random variables and probability distributions: Expected value, variance and standard deviation of a continuous random variable; Uniform, normal and exponential distributions.

Sampling distributions: The central limit theorem; Sampling distributions of the mean and a proportion; Sampling distributions of the difference between two means and the difference between two proportions.

Inferential Statistics: Interval estimation and hypothesis testing for the mean, a proportion and the variance; Interval estimation and hypothesis testing for the difference between two means, the difference between two proportions and the ratio of two variances; Concept of and calculation of p-values in above cases; Determining sample sizes; Calculation of power and the effect of sample size on power.

Note
Application of statistical techniques using Microsoft® Excel is emphasised throughout.

Continuous assessment

PP Statistical Methods 176 with a final mark of at least 60 or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144
C Mathematics for Statistics 214 (students who have passed Mathematics 114 or 144 are exempt from this)

Home department: STATISTICS AND ACTUARIAL SCIENCE

244	16	**Statistical Inference**	3L, 2T	**A**

Analysis of variance: Completely randomised one-way, factorial and block designs.

Nonparametric techniques: Wilcoxon's rank sum test; Sign test; Wilcoxon's signed rank sum test; Kruskal-Wallis' test; Friedman's test.

Categorical data analysis: Hypothesis testing for the difference between two or more proportions; Tests of independence; Goodness-of-fit test.

Simple linear regression analysis: The simple linear regression model; Method of least squares estimation; Inference about the model parameters and the correlation coefficient; Residual analysis; Prediction intervals and confidence intervals.

Multiple regression analysis: The multiple linear regression model; Residual analysis; Inference about the parameters of the model; Regression models with indicator variables

and interaction terms; Polynomial regression; Transformations; Collinearity; Variable selection.

Time series analysis: Components of a time series; Smoothing; Several methods of trend fitting and forecasting; Index numbers.

Quality control: Control charts; Process capability.

Remark

Application of statistical techniques using Microsoft® Excel and one additional statistical software package are emphasised throughout.

Continuous assessment

PP Statistics 214 and
P Mathematics for Statistics 214

Home department: STATISTICS AND ACTUARIAL SCIENCE

318	24	**Applied Linear Models**	4L, 2T	**A**

Regression analysis: The multiple linear regression model; Estimation and prediction; Correlation analysis; Residual analysis; Outliers and influential observations; Heteroscedasticity; Multicollinearity; Variable selection; Piecewise regression; Inverse prediction; Weighted least squares; Logistic regression; Ridge regression; Robust regression.

Multivariate methods: Matrix algebra; Presentation of multivariate data; Multivariate normal distribution; Tests for multivariate normality; Hypothesis tests for one and two mean vectors; Multivariate control charts; Multivariate analysis of variance.

Continuous assessment

PP Statistics 244 or
PP Mathematical Statistics 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

348	24	Statistical Practice	4L, 2T	A

Bayes analysis: Bayes' theorem for discrete and continuous random variables; Prior and posterior distributions; Bayes inference; Decision theory; Decision trees; Utility functions.

Advanced statistical inference: Properties of estimators (unbiasedness, efficiency, consistency, sufficiency, robustness); Method of moments estimation; Maximum likelihood estimation; Asymptotic distributions of maximum likelihood estimators; Likelihood ratio tests.

Time series analysis: Smoothing techniques; Box-Jenkins methodology.

Sampling techniques: Questionnaire design; Probability sampling techniques; Advanced sampling techniques (two-phase sampling, selection and inclusion probabilities, sample weighting); Handling non-response; Regression in advanced sampling.

Continuous assessment

P Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

19690 STATISTICAL METHODS

176	18	Statistical Methods with Computer Implementation	3L, 2T	A & E

*First semester: 3L, 1½T; Second semester: 2L, 1½T

Sampling techniques: Simple random; Stratified; Systematic; Cluster; Probability proportional to size.

Descriptive Statistics: Various data types; Stem-and-leaf display; Frequency distributions; Graphical representation of data (histogram, polygons, bar and pie charts);

Descriptive measures of location and spread (mean, median, mode, variance, standard deviation, percentiles); Approximate measures for grouped data; Box plots; Measure of association (coefficient of correlation).

Probability theory: Basic probability concepts (sample spaces, events, addition and multiplication rules, conditional probabilities, probability trees, contingency tables);

Bayes' theorem; Counting rules.

Discrete random variables and probability distributions: Expected value, variance, and standard deviation of a discrete random variable; Covariance between discrete random variables; Expected value and variance of a portfolio; Binomial and Poisson distributions.

Continuous random variables and probability distributions: Normal and exponential distributions.

Sampling distributions: The central limit theorem; Sampling distribution of the mean and a proportion.

Inferential Statistics: Interval estimation and hypothesis testing for the mean and a proportion; Interval estimation and hypothesis testing for the difference between two means; Sample size calculation based on interval estimation.

Analysis of variance: One-way and two-way designs.

Regression analysis: The simple linear regression model; Inference about model parameters and the coefficient of correlation; Multiple linear regression.

Time series analysis: The components of a time series; Smoothing; Least squares trend fitting and forecasting.

Notes

1. Microsoft® Excel will be used throughout the module for the application of the different statistical techniques.
2. Students who passed Statistical Methods 176(18) will be allowed to continue with Statistics 214(16), provided that they obtained a final mark of at least 60%.

Differences between Statistics 186 and Statistical Methods 176:

In Statistics 186 and Statistical Methods 176 similar statistical techniques are covered. However, in Statistics 186 basic mathematical techniques are revised and expanded, which are not covered in Statistical Methods 176. The Statistics 186 module is a normal exam written module with three tests that are written during the year and a final examination written at the end of the year. The Statistical Methods 176 module is a more practical module that focuses on applications in Excel and computer assignments. These assignments form an important component, 40% of the module, of this continuously assessed module.

Continuous assessment

Home department: STATISTICS AND ACTUARIAL SCIENCE

38784 THEORY OF INTEREST				
152	**6**	**Theory of Interest**	2L, 1T	**A & E**

Simple and compound interest. Force of interest. Future value, present value and discount. Accumulation and discounting of amounts of money. Various types of annuities and applications.

Home department: STATISTICS AND ACTUARIAL SCIENCE

60712 ADVANCE STATISTICS				
816	**8**	**Advanced Statistics (According to Engineering blocks)**		

Advanced distribution theory, probability models, applications, simulation of stochastic variables, extreme value distributions, transformation of stochastic variables, introduction to reliability.

Stochastic processes, transformations and generating functions for probabilities, Laplace transformations, Markov chains and Markov processes with discrete states.

Queuing theory 1: General theory and applications of queuing models with one and more waiting lines in series or parallel.

Queuing theory 2: Further applications of specific waiting line configurations, reliability, point processes, renewal theory.

PP Engineering Statistics 314

Home department: INDUSTRIAL ENGINEERING

59498 ENGINEERING STATISTICS				
314	**15**	**Engineering Statistics**	3L, 2.5T	**A**

Applied probability theory; applications based on discrete and continuous random variables and their probability distributions, such as the normal, gamma, lognormal, Log Pearson type 3 (LP3), Gumbel (EV1) distributions; queuing processes; joint distributions; descriptive statistics and graphical presentations; moments, averages, median and standard deviations; moment generating functions; variation coefficient; skewness coefficient; Peaking coefficient; sampling theory; point and interval estimation; hypothesis testing; μ2 and K-S testing; simple linear and non linear regression and correlation analyses; introduction to multiple linear regression; introduction to analysis of variance and experimental design.

Examination

PP Engineering Mathematics 115, 145

Home department: Statistics and Actuarial Science

Formula for Final mark: P=0,4K+0,6E

43214 ACTUARIAL SCIENCE				
112	**8**	**Theory of Interest**	2L, 1T	**E**

Simple and compound interest. Force of interest. Future value, present value and discount. Accumulation and discounting of amounts of money. Various types of annuities and applications.

Notes

1. This module is more intensive than Theory of Interest 152(6).
2. Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met a student will be awarded a class mark not exceeding 35%.
3. For admission to the module students must have passed Grade 12 Mathematics with a mark of at least 70% (symbol 6 (or Higher Grade B)).

Home department: STATISTICS AND ACTUARIAL SCIENCE

142	**16**	**Introduction to Actuarial Science**	3L, 1T	**E**

Actuarial mathematical methods and models, principles of life contingencies, life insurance, general insurance, investments, employee benefits and new trends with specific reference to the South African insurance industry. Actuarial professionalism and ethics.

Note

Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Mathematics 114 with a final mark of at least 60% (calculated based on performance in the first examination opportunity)
PP Actuarial Science 112
C Probability Theory and Statistics 144

Home department: STATISTICS AND ACTUARIAL SCIENCE

242	16	**Introduction to Actuarial Mathematics**	4L	**E**

The application of stochastic processes to models used for financial work; introduction to the mathematical techniques used to model and value cash flows dependent on death, survival or other uncertain risks.

Note
Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Mathematics 114 and 144 with an average final mark of at least 60%
PP Probability Theory and Statistics 144 with a final mark of at least 65%
PP Actuarial Science 112
PP Mathematics 214
PP Mathematical Statistics 214
C Actuarial Science 142, 274

Home department: STATISTICS AND ACTUARIAL SCIENCE

274	24	**Financial Mathematics**	3L, 3P	**A**

*First semester: 4L; Second semester: 2L
Basic concepts, compound interest functions, discounted cash flow, pricing of loans and other securities, annuities, stochastic interest rates and simple premium calculations.

Note
Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112
PP Mathematics 114, 144 (with an average final mark of at least 60%) or Mathematics 214, 244
PP Probability Theory and Statistics 144 (with a final mark of at least 65%) or Mathematical Statistics 214, 244
C Mathematics 214, 244
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

326	24	**Actuarial Models**	5L	**E**

Stochastic processes and their application to the models used for actuarial work.

Note
Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112, 142, 242, 274
PP Mathematical Statistics 214, 244
PP Mathematics 214, 244
C Mathematical Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

346	24	**Actuarial Statistics**	5L	**A**

Mathematical and Statistical Techniques of particular relevance to actuarial work.

Note
Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112, 142, 242, 274
PP Mathematical Statistics 214, 244
PP Mathematics 214, 244
C Mathematical Statistics 318, 364

Home department: STATISTICS AND ACTUARIAL SCIENCE

388	32	**Contingencies**	4L	**A**

Mathematical Techniques used to model and value cash flows dependent on death, survival or other uncertain risks.

Note
Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In a situation where this requirement is not met, a student will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112, 142, 242, 274
PP Mathematical Statistics 214, 244
PP Mathematics 214, 244
C Mathematical Statistics 318, 344, 364

Home department: STATISTICS AND ACTUARIAL SCIENCE

54690 FINANCIAL RISK MANAGEMENT

212	8	**Institutional Investment Management**	3L, 2P	**A**

Evaluating of the investment properties and the study of the mathematical methodology underlying the following financial asset classes: Government bonds, corporate debt, equity, properties, index linked government bonds, Foreign investments. South African financial market. Liabilities and risk profile of the following Institutional Investors: Banks, life insurers, pension funds, short-term insurers, medical aid schemes, unit trusts, investment trusts.

Corporate finance: Financial instruments to raise finance and manage financial risk.

PP Mathematics 114, 144
PP Probability Theory and Statistics 144
PP Theory of Interest 152 or
PP Actuarial Science 112
C Actuarial Science 274
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

242	8	**Derivatives**	2L, 1P	**A**

Introduction to derivatives with emphasis on mathematical methodology; Mechanics of futures and option markets; Pricing of Futures and Forwards; Hedging strategies using derivatives; Interest Rate Markets; Swaps; Properties of stock options; Trading strategies involving options.

PP Mathematics 114, 144
PP Probability Theory and Statistics 144
PP Theory of Interest 152 or
PP Actuarial Science 112
P Financial Risk Management 212
C Actuarial Science 274
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

314	24	**Financial Mathematical Statistics**	4L, 2T	**A**

Binomial Trees: Statistical modelling of stock prices, mathematical statistical derivation of Black-Scholes model and applications thereof; options on stock indices, currencies and futures; Greek letters, value at risk; numerical procedures to value derivatives; exotic options; Martingales and measures.

PP Financial Risk Management 212, 242
PP Mathematics 214, 244
PP Mathematical Statistics 214, 244
C Actuarial Science 274

Home department: STATISTICS AND ACTUARIAL SCIENCE

344	24	**Modern Portfolio Theory**	4L, 2T	**A**

Mean variance portfolio theory: Risk of a portfolio, delineating efficient portfolios, techniques for calculating the efficient frontier. The portfolio selection process, single and multi-index models, utility analysis. Models of equilibrium in the capital market: Standard capital asset pricing model, non-standard forms of capital asset pricing models, empirical tests of equilibrium models.

P Financial Risk Management 314

Home department: STATISTICS AND ACTUARIAL SCIENCE

US LANGUAGE CENTRE

12269 BUSINESS COMMUNICATION				
142	**8**	**Business communication**	3L	**A & E**

The focus of this module is effective communication in the professional business environment. The focus will be specifically on document types used in the professional environment such as proposals, reports and correspondence, as well as on text skills such as coherence, appropriate style and text structure. Attention will also be given to appropriate referencing skills.

Continuous

Home department: LANGUAGE CENTRE

12265 LANGUAGE DEVELOPMENT AFRIKAANS				
114	**12**	**Language Development Afrikaans**	1L	**A**
The focus of this module is on the development of basic speaking, listening, reading and writing skills within the context of the Economic and Management Sciences. Although reading and writing skills are not specifically assessed, they are used throughout as support mechanisms to form part of an integrated teaching approach. Home department: CENTRE FOR LANGUAGE				
144	**12**	**Language Development Afrikaans**	1L	**A**
The focus of this module is on the development of basic speaking, listening, reading and writing skills within the context of the Economic and Management Sciences. Although reading and writing skills are not specifically assessed, they are used throughout as support mechanisms to form part of an integrated teaching approach. Home department: CENTRE FOR LANGUAGE				

12266 LANGUAGE DEVELOPMENT ENGLISH				
114	**12**	**Language Development English**	1L	**E**
The focus of this module is on the development of basic speaking, listening, reading and writing skills in English within the context of the Economic and Management Sciences. Although reading and writing skills are not specifically assessed, they are used throughout as support mechanisms to form part of an integrated teaching approach. Home department: CENTRE FOR LANGUAGE				
144	**12**	**Language Development English**	1L	**E**
The focus of this module is on the development of a more advanced speaking, listening, reading and writing skills in English within the context of the Economic and Management Sciences. Although reading and writing skills are not specifically assessed, they are used throughout as support mechanisms to form part of an integrated teaching approach. Home department: CENTRE FOR LANGUAGE				

12526 LANGUAGE AND THINKING SKILLS FOR EMS				
114	**12**	**Language and thinking skills for EMS**	1L	**A & E**
The focus of this module is on the development of reading, writing and thinking skills in the academic environment in general and specifically the Economic and Management Sciences. Skills like problem identification and solving, the collection and ordering of information, and synthesising, analysing and evaluation thereof are addressed. Aspects such as grasping the notion of text components, the use of fluent, correct and proper language as well as plagiarism and referencing will be addressed. Home department: CENTRE FOR LANGUAGE				

FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES

11569 ACADEMIC LITERACY FOR ECONOMIC AND MANAGEMENT SCIENCES				
Academic Literacy for Economic and Management Sciences				
111	**12**	**Academic Literacy for Economic and Management Sciences**	1L	**A & E**

The focus of this module is to promote academic literacy for economics with an economic thought approach (to think like economists). Students are provided with the opportunity:

- to use economics to solve meaningful problems and understand the art of the logic of economics;
- to practice the skills and analysis that are fundamental to participating in economics debate and decision making;
- to apply basic critical thinking skills through critical listening, reading and writing of economics texts (i.e. deductive reasoning, analyse economic policies, construct arguments and support them, interpret different kinds of economic text (i.e. Adam Smith; Popper, Malthus); understand academic vocabulary, interpret the use of analogies and metaphors in the context of social coordination, individualism, self-interest; understand the market as a system; understand voluntary exchange, profit, process and incentives, to read and interpret information presented in graphic or visual format (demand & supply curves);
- to explain their thinking and constructively critique the thinking of others;
- to focus on organising information logically; select important information and reduce it to a form that is easy to study and review.
- Students will further acquire the basic knowledge, skills and attitudes to become successful EMS students by understanding the university ethos, by developing academic readiness and personal management skills such as study, time and stress management.

Home department: ECONOMIC AND MANAGEMENT SCIENCES (GENERAL)

12298 INTRODUCTION TO ECONOMICS				
141	**12**	**Introduction to Economics**	1L	**A & E**

The focus of this module is to provide a foundation and promote deeper understanding and working knowledge of the following basic fundamental economics concepts:

- What is economics? Basic assumption in economic theory; Economic models; Definitions of economics; Scarcity and choice; Utopias; What is a science? Positive and normative statements; Cause and effect; Unintended consequences; How to study economics.
- Action and results: Contingent behaviour; Production possibilities; Price-taking; Marginal costs and benefits; Exchange and consumption; By-products; The commons.
- The individual and the group: Prisoner's dilemma, Self-interest; Small groups; Coordination; Central planning; Exchange and politics.
- The model of supply and demand: Introduction to demand; The demand curve; Demand terminology; Supply – Benefits and costs; The supply curve; Supply terminology; The model of supply and demand; Assumptions; Buyer and seller equilibrium; Shortages and surpluses.

Macro-economic topics: Connecting microeconomic foundations with macroeconomic models; analysing labour markets through demand and supply surves; Growth and development (Hyperinflation and depression); Measuring the economy (Unemployment; Inflation; Gross Domestic Product).

Home department: ECONOMIC AND MANAGEMENT SCIENCES (GENERAL)

12292 INTRODUCTION TO FINANCIAL ACCOUNTING				
Introduction to Financial Accounting				
171	**24**	**Introduction to Financial Accounting**	1L	**T**

The conceptual framework of Accounting: theoretical principles in International Financial Reporting Standards; the Accounting process; introduction to accounting systems; introduction to financial reporting.

Home department: ECONOMIC AND MANAGEMENT SCIENCES (GENERAL)

Research and Service Bodies

AFRICA CENTRE FOR DISPUTE SETTLEMENT (SU POSTGRADUATE BUSINESS SCHOOL)

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E-mail: Sunelle.Hanekom@usb.ac.za

Website: www.usb.ac.za/disputesettlement

Programme offering:

Postgraduate Diploma in Dispute Settlement

AFRICA CENTRE FOR HIV/AIDS MANAGEMENT

Director: Prof J du Toit

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Programme offerings:

Postgraduate Diploma in HIV/Aids Management

MPhil in HIV/Aids Management

BUREAU FOR ECONOMIC RESEARCH (BER)

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INSTITUTE FOR FUTURES RESEARCH (IFR) (SU POSTGRADUATE BUSINESS SCHOOL)

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Programme offering:

Postgraduate Diploma in Futures Research