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Faculty of **Economic and Management Sciences**

Dean:

Prof S du Plessis

BCom, BComHons (Stell), MPhil (Cambridge), PhD (Stell)

CALENDAR 2016
PART 10

Calendar

Amendments, liability and accuracy

- In this publication any expression signifying one of the genders includes the other gender equally, unless inconsistent with the context.
- The University reserves the right to amend the Calendar parts at any time.
- The Council and Senate of the University accept no liability for any inaccuracies there may be in the Calendar parts.
- 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 parts.

Where do I find the printed versions of the Calendar parts?

- The printed versions of the Calendar parts can be obtained at the Help Desk in the Admin A Building.
- Afrikaans (Part 1 to 12) and English copies of the individual parts are available.

Where do I find the electronic versions of the Calendar parts?

- The electronic versions of the Calendar parts can be obtained at www.sun.ac.za/Calendar.

The division of the Calendar

- The Calendar is divided into 13 parts.
- Part 1, 2 and 3 of the Calendar contains general information applicable to all students. Students are urged to take note especially of the content of the provisions in Part 1 of the Calendar applicable to them.
- Part 4 to 13 of the Calendar are the faculty Calendar parts.

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

Table of Contents

How to use this Calendar Part

Readers of the Calendar Part

The information in this Calendar Part is intended for the following groups of readers:

- **Prospective** undergraduate and postgraduate students who are looking for information about the programmes of study offered by the Faculty
- **Registered** undergraduate and postgraduate students of Stellenbosch University who are looking for more information about the curriculums (combinations of subjects and modules) of specific programmes of study, as well as for other information related to their studies
- **Teaching, administrative and management staff of Stellenbosch University** who are required to keep abreast of the information contained herein to be able to fulfil their various functions.

Any person who are not in one of the abovementioned groups, but who wish to use this Calendar Part as a source of information for any reason, is of course also more than welcome to do so.

How to locate information

Guidelines for finding information in the different chapters in this Calendar Part are set out below. Consult the table of contents for the page numbers of the chapters referred to below.

Prospective undergraduate students

- Undergraduate Programmes section
  - Information on undergraduate programmes of study that are offered;
  - The minimum admission requirements for the different programmes of study; and
  - The subjects and modules that must be taken for the different programmes of study each year, with choices where applicable.
- Subjects, Modules and Module Contents section
  - An explanation of subjects as distinct from modules;
  - Definitions of the language specifications of modules;
  - Definitions of prerequisite pass, prerequisite and corequisite modules; and
  - An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes section.
- General Information section
  - Information about the Language Policy of the University and the Faculty;
  - Information about the process of enrolment management, which entails selection for admission to programmes of study; and
  - Information about communication with the University, which includes an explanation of the concept “student number” and indicates applicable options for enquiries along with their contact details.

- Index
  - An index of undergraduate subjects that can be taken in programmes of study of the Faculty (as these subjects appears in the Subjects, Modules and Module Contents section), appears in the back of this Calendar Part.

Prospective postgraduate students

- Postgraduate Programmes section
  - Information on postgraduate programmes of study that are offered;
  - The minimum admission requirements for the different programmes of study;
  - Information about specific closing dates for applications, and other relevant information, for example selection; and
  - The subjects and modules that must be taken for the different programmes of study each year, with choices where applicable.
- Subjects, Modules and Module Contents section
  - An explanation of subjects as distinct from modules; and
  - An explanation of the different digits used for the numbering of modules in the Postgraduate Programmes section.
- General Information section
  - Information about the Language Policy of the University and the Faculty; and
  - Information about communication with the University, which includes an explanation of the concept "student number" and indicates applicable options for enquiries along with their contact details.

Registered undergraduate students

- Undergraduate Programmes section
  - Information on undergraduate programmes of study that are offered; and
  - The subjects and modules that must be taken for the different programmes of study each year, with choices where applicable.
- Subjects, Modules and Module Contents section
  - An explanation of subjects as distinct from modules;
  - An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes section;
  - The abbreviations and definitions used for the teaching loads of individual modules;
  - An indication at each module of what its teaching load is;
  - Definitions of the language specifications of modules, as well as an indication at each module of what its language specification is;
  - The definitions of prerequisite pass, prerequisite and corequisite modules, as well as an indication at each module of which of the requisites apply, if any; and
  - The way in which individual modules are assessed, especially where a module is subject to continuous or flexible assessment.

- General Information section
  - The Faculty's policy on the granting of Dean's Concession Examinations to final-year students;
  - Information about the Language Policy of the University and the Faculty; and
  - Information about communication with the University, as well as applicable options for enquiries along with their contact details.
- Index
  - An index of undergraduate subjects that can be taken in programmes of study of the Faculty (as these subjects appears in the Subjects, Modules and Module Contents section), appears in the back of this Calendar Part.

Registered postgraduate students

- Postgraduate Programmes section
  - Information on postgraduate programmes of study that are offered; and
  - The subjects and modules that must be taken for the different programmes of study each year, with choices where applicable.

Teaching, administrative and management staff

Most of the information in this Calendar Part may be of value in the execution of your various duties. The table of contents is the best place to begin looking for information, but frequent use of the book will naturally lead to familiarity with all the information in the book and with where it is located.

General Information

1. Introduction

Established in 1925, the Faculty of Economic and Management Sciences (EMS) has grown from a mere 15 students to more than 7 000 today, making it the largest of the 10 faculties at Stellenbosch University. The Faculty fosters the creation of prominent business leaders and entrepreneurs by producing quality graduates well equipped to serve the business community.

Teaching and research in the Faculty's five academic departments and three schools are augmented by five research centres and an institute. The Faculty hosts the following departments and schools: Accountancy, Business Management, Economics, Industrial Psychology, Logistics, Public Leadership, Statistics and Actuarial Science, as well as the Business School (USB).

2. Language at the University

Stellenbosch University (SU) uses Afrikaans *and* English as languages of instruction at undergraduate level in its endeavour to promote multilingualism. The University is committed to safeguarding and developing Afrikaans further as a well-established academic language, taking into consideration this endeavour to promote multilingualism. SU also recognises English as an international academic language and a medium through which most South Africans can communicate with each other. In addition, the University provides for the development of specialist terminology and communication skills in isiXhosa, and the teaching of isiXhosa in some academic programmes for students who will need it in their careers.

Many of our modules are already presented in Afrikaans *and* English through parallel medium teaching and simultaneous interpretation. However, it is not possible to present the lectures of all modules fully in Afrikaans and English. The medium of teaching is therefore indicated in the relevant faculty's calendar part. More information concerning language at the University is available on the website www.sun.ac.za/language. Support for the acquisition of academic language proficiency in Afrikaans *and* English is provided.

Parallel medium: A class is divided into separate Afrikaans and English streams. Students provide their preferred language of teaching at registration.

Interpreting: Simultaneous interpretation into Afrikaans or English, depending on the lecturing language, can take place during class teaching.

Bilingual: A combination of teaching in Afrikaans (approximately 50%) and English (approximately 50%) in the same class.

3. The Faculty's language plan

Programme	Language of tuition
BAcc, BCom (Financial Accounting) and BCom (Management Sciences)	These programmes are presented fully in parallel medium.
All other programmes	The first-year modules of all programmes are presented fully in parallel medium. In the second and third years, the language of instruction is either one of, or a combination of, the following: parallel medium and simultaneous interpreting into Afrikaans or into English.
Modules of other faculties	Modules of other faculties (e.g. Psychology, Mercantile Law, Mathematics, Political Science) may include parallel medium and/or simultaneous interpreting into Afrikaans or English.

Other faculties' tuition medium of service modules

Agrisciences

Module Name	Module code	Tuition medium
Agri Economics	234	E + i
Agri Economics	242	E + i
Agri Economics	262	E + i
Agri Economics	314	E + i
Agri Economics	334	E + i
Agri Economics	354	E + i
Agri Economics	364	E + i

Arts and Social Sciences

Module Name	Module code	Tuition medium
Information Systems Management (ISM)	224	E + i
Information Systems Management (ISM)	254	E + i
Information Systems Management (ISM)	262	E + i
Information Systems Management (ISM)	314	E + i
Information Systems Management (ISM)	334	E + i
Information Systems Management (ISM)	354	E + i
Information Systems Management (ISM)	364	E + i

Science		
Module Name	**Module code**	**Tuition medium**
Computer Science	114	A/E + i
Computer Science	144	E + i
Computer Science	214	A/E + i
Computer Science	244	A/E + i
Computer Science	314	A/E + i
Computer Science	334	E + i
Computer Science	344	E + i
Computer Science	354	E + i
Computer Science (depending on the language proficiency of the group)	315	A/E + i
Computer Science (depending on the language proficiency of the group)	364	T or E + i

Language of tuition	**Code**	**Displayed in Calendar as**	**Description**
Parallel medium	**A&E**	**A** or **E**	Afrikaans (A) and English (E) classes are presented separately. Students select their tuition language of choice at registration.
Interpreting to English	**A + i**	**A + i**	Interpreting into English, from Afrikaans instruction.
Interpreting to Afrikaans	**E + i**	**E + i**	Interpreting into Afrikaans, from English instruction.
Bilingual	**T**	**T**	A combination of Afrikaans and English in the same class. Most of these classes occur when modules of other faculties are taken.

Please note:

- Language options of modules may change from time to time, with due allowance for registered students' language of choice and the availability of staff.
- Information about the language options of modules is available in the Subjects, Modules and Module Contents section.

4. How to communicate with the University

4.1 Use of student number

- In dealing with new formal applications for admission, the University assigns a student number to each applicant. This student number serves as the unique identification of the person concerned and has the purpose of making future communication easier.
- Once you have been informed of your student number you must please quote it in all future correspondence with the University.

4.2 Send correspondence to the following addresses

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

  The Registrar
  Stellenbosch University
  Private Bag X1
  MATIELAND
  7602

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

  The Chief Operating Officer
  Stellenbosch University
  Private Bag X1
  MATIELAND
  7602

5. How to communicate with the Faculty

5.1 Important contact details of the Faculty

	Telephone number	Fax number	E-mail address
Contact Centre	021 808 9111	021 808 3822	info@sun.ac.za

5.2 Send correspondence with the Faculty to the following 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

6. Degree programmes of the Faculty

B degrees	BHons degrees	M degrees	D degrees
BCom	BComHons	MCom	PhD
BCom (Management Sciences)	BComHons	MCom	PhD
BCom (Economic Sciences)	BComHons	MCom	PhD
BCom (Mathematical Sciences)	BComHons	MCom	PhD
BCom (Actuarial Science)	BComHons	MCom	PhD
BAcc	BAccHons	MAcc	PhD
BCom (Financial Accounting)	BComHons	MCom	PhD
BCom (Management Accounting)	BComHons	MCom	PhD
BCom (Industrial Psychology)	BComHons (Industrial Psychology)	MCom (Industrial Psychology)	PhD
BCom (International Business)	BComHons	MCom	PhD
BCom (Law)	BComHons	MCom	PhD
BAccLLB	BAccHons	LLM or MAcc	LLD or PhD
		MPhil	PhD
		MBA	PhD
	BPubAdminHons	MPA	PhD

The BCom, BAcc, BAccLLB, BComHons, 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.

7. Undergraduate programmes and credit requirements

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

Minimum credits required

Programme	1st year	2nd year	3rd year	4th year	5th year	Total credits
BAcc	138	154	156			446
BAccLLB	168	158	174	180	164	844
BCom	120	128	120			368
BCom (Actuarial Science)	144	136	144			424
BCom (Economic Sciences)	120	128	120			368
BCom (Financial Accounting)	120	128	144			392
BCom (Industrial Psychology)	138	128	144			410
BCom (International Business)	120	140	132 or 136	120		512
BCom (Law)	150	152	130			432
BCom (Management Accounting)	120	128	144			392
BCom Management Sciences)	120	128	120			368
BCom (Management Sciences) EDP	90	104	102	120		416
BCom (Mathematical Sciences)	120	130	120			376

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.

8. Postgraduate diplomas

Postgraduate Diploma in Actuarial Science

Postgraduate Diploma in Business Management and Administration

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

9. Admission requirements for Baccalaureus degrees for 2016

Faculty of Economic and Management Sciences

Programme-specific MINIMUM admission requirements for 2016 intake

Please note: The admission requirements of some programmes for 2017 are under review.

BCom, BCom (Management Sciences),

BCom (Industrial Psychology) and

BCom (Economic Sciences)

- Language: Combination of A & E; A+i; E+i *****
- Overall NSC average of at least 5 (60%), excluding Life Orientation
- Mathematics 5 (60%)

BCom (Financial Accounting) and

BCom (Management Accounting)

Language: A & E *****

- Overall NSC average of at least 5 (60%), excluding Life Orientation
- Mathematics 5 (60%)

BCom (International Business)

Language: E.

Please note: This is a four-year selection programme, including 6 months' international exchange.

- Overall NSC average of at least 60%, excluding Life Orientation
- Mathematics 5 (60%)
- English Home Language 60% **or** English First Additional Language 70%

BCom (Mathematical Sciences)

Language: Combination of A & E; A+i; E+i *****

- Overall NSC average of at least 5 (60%), excluding Life Orientation
- Mathematics 6 (70%)

BCom (Management Sciences)

(Extended Degree Programme) (EDP)

Language: Combination of A & E; A+i; E+i *****

- Overall NSC average of at least 5 (60%), excluding Life Orientation
- Mathematics 4 (50%)

BCom (Actuarial Sciences)

Language: Combination of A & E; A+i ; E+i;

- Overall NSC average of at least 6 (70%), excluding Life Orientation
- Mathematics 7 (80%)
- English Home Language 5 (60%) **and**
- Afrikaans First Additional Language 5 (60%)

or

- Afrikaans Home Language 5 (60%) **and**
- English First Additional Language 5 (60%)

BAcc

Language: A & E *****

- Overall NSC average of at least 6 (70%), excluding Life Orientation
- Mathematics 5 (60%)
- Accounting 6 (70%) **or** Mathematics 6 (70%)

BAccLLB

Language: Combination of A & E; A+i; E+i;T

- NSC with at least 4 (50%) in four NSC university admission subjects **and** an overall NSC average of at least 6 (70%), both excluding Life Orientation
- Mathematics 5 (60%)
- Accounting 6 (70%) **or** Mathematics 6 (70%)
- Afrikaans Home Language 5 (60%) **or**
- English Home Language 5 (60%) **or**
- Afrikaans First Additional Language 6 (70%) **or**
- English First Additional Language 6 (70%)

This is a selection programme and only a limited number of students will be admitted.

Applications close 30 June.

BCom (Law)

Language: A & E; A+i ; E+i; T

- NSC with at least 4 (50%) in four NSC university admission subjects **and** an overall NSC average of at least 6 (70%), both excluding Life Orientation
- Mathematics 5 (60%)
- Afrikaans Home Language 5 (60%) **or**
- English Home Language 5 (60%) **or**
- Afrikaans First Additional Language 6 (70%) **or**
- English First Additional Language 6 (70%)

This is a selection programme and only a limited number of students will be admitted.

Applications close 30 June.

EMS Admission Requirements currently under review for 2017

***** Minimum EMS language admission requirements:
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%)

10. 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.

11. 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.

12. Undergraduate 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.
- Students who want to apply for postgraduate studies should take note of the prerequisites modules as indicated in the table *Module requirements for postgraduate programmes* in the Postgraduate section later in this calendar.

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

Department of African Languages

Basic Xhosa 144	P Basic Xhosa 114

Department of Agricultural Economics

Agricultural Economics 782	P Biometry 212 P Statistics 186 or P Statistical Methods 176
Agricultural Economics 784	P Economics 114, 144

Agricultural Economics 242	P Economics 114 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 214	C Business Management 113
Entrepreneurship and Innovation Management 244	C Business Management 113 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 113, 142 or Mathematics 114 or Mathematics (Bio) 124
Financial Management 244	C Financial Management 214
Financial Management 314	C Financial Management 214, 244 or C Investment Management 254
Financial Management 332	C Financial Management 214, 244 or C Investment Management 254
Financial Management 352	C Financial Management 214, 244 or C Investment Management 254
Financial Management 354	C Financial Management 214, 244 or C Investment Management 254
Financial Planning 214	C Business Management 113 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 or 285

Investment Management 254	C Business Management 113 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 PP Statistical Methods 176 with 65% or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Investment Management 324	P Investment Management 254 PP Statistical Methods 176 with 65% or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Investment Management 348	C Financial Management 214 or C Financial Accounting 178 or 188 PP Statistical Methods 176 with 65% or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Investment Management 354	C Investment Management 254 PP Statistical Methods 176 with 65% or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Investment management 344	P Investment Management 254 PP Statistical Methods 176 with 65% or PP Statistics 186 or PP Probability Theory and Statistics 114 or 144
Management of Corporate Social Responsibility 314	P Business Management 113
Marketing Management 214	C Business Management 113 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 324	P Computer Science 214
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 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 E 214	P Engineering Mathematics 115, 145
Computer science 244	C Computer Science 214
Computer science 315	PP Computer Science 144 or P Computer Science E 214 P Mathematical Statistics 244 or P Systems and Signals 344
Computer science 334	P Computer Science 214, 244 For programmes in Engineering: P Computer Science E 214 P Computer Systems 245
Computer science 364	P Computer Science 214 or P Computer Science E 214 P Applied Mathematics 214 or P Applied Mathematics B 242

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 Genetics

Biometry 212	P Mathematics (Bio) 124 or P Mathematics 114

Department of Geography and Environmental Studies

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 225
Geography and Environmental Studies 323	P Geography and Environmental Studies 225
Geography and Environmental Studies 358	P Geography and Environmental Studies 265
Geography and Environmental Studies 363	P Geo-Environmental Science 124

Department of Industrial Psychology

Industrial Psychology 314	C Industrial Psychology 244
Industrial Psychology 324	C Industrial Psychology 244

Department of Logistics

Air Transport Economics 742	PP Transport Economics 318, 348
Introduction to Transport and Logistics Systems 144	P Business Management 113
Logistics Management 214	P Business Management 113
Logistics Management 244	PP Business Management 113 PP Logistics Management 214
Logistics Management 314	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 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)
Logistics Management 324	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 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)
Logistics Management 344	PP Logistics Management 314, 324 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)
Logistics Management 354	PP Logistics Management 314, 324 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)
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 326	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)
Shipping Economics 773	PP Transport Economics 318, 348
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 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 345	PP Mathematics 114, 144 or equivalent modules
Mathematics 365	PP Mathematics 214, 244

Department of Mercantile Law

Law of Taxation 411	C Mercantile Law 471
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) 253	PP Mercantile Law (Acc) 193

Department of Private Law

Law of Civil Procedure 371	PP Private Law 171
Legal Skills 411	PP Private Law 372, 373
Private Law 171	C Introduction to Law 171
Private Law 372	PP Introduction to Law 171 PP Private law 272, 273 P Roman Law 271 C Constitutional Law 271 C Private Law 373
Private Law 373	PP Introduction to Law 171 PP Private law 272, 273 P Roman Law 271 C Constitutional Law 271 C Private Law 372
Private Law 411	PP Private Law 372

Private law 272	PP Private Law 171 P Introduction to Law 171 C Private law 273
Private law 273	PP Private Law 171 P Introduction to Law 171 C Private law 272
Roman Law 271	C Private law 272, 273

Department of Psychology

Psychology 213	PP Psychology 114, 144
Psychology 223	PP Psychology 114, 144
Psychology 243	PP Psychology 114, 144
Psychology 253	PP Psychology 114, 144
Psychology 314	PP Psychology 213, 223, 243, 253
Psychology 324	PP Psychology 213, 223, 243, 253
Psychology 348	PP Psychology 213, 223, 243, 253

Department of Public Law

Administrative Law 411	PP Constitutional Law 271 P Constitutional Law 312
Constitutional Law 271	P Introduction to Law 171 (excepting three-year postgraduate LLB students)
Constitutional Law 312	PP Constitutional Law 271
International Law 341	P Constitutional Law 271
Interpretation of Enacted Law 211	P Introduction to Law 171 (excepting postgraduate 3-year LLB students) C Constitutional Law 271
Law of Criminal Procedure 271	P Criminal Law 171
Law of Evidence 471	PP Constitutional Law 271 P Law of Criminal Procedure 271

School of Accountancy

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 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)
Information Systems 214	C Management Accounting 278 or 288
Information Systems 242	P Financial Accounting 178 or 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 the 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 P Taxation 298

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 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%) 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
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 Financial Risk Management 274 or 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 Financial Risk Management 274 or C Actuarial Science 274 C Mathematical Statistics 214, 244
Financial Risk Management 274	PP Actuarial Science 112 PP Mathematics 114, 144 PP Probability Theory and Statistics 144 C Financial Risk Management 212, 242 C Mathematics 214, 244 C Mathematical Statistics 214, 244
Financial Risk Management 314	PP Financial Risk Management 212, 242 PP Mathematics 214, 244 PP Mathematical Statistics 214, 244 PP Financial Risk Management 274 or 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 Statistics 224 (Students who have passed Mathematics 114 or 144 are exempt from this.)
Statistics 224	PP Statistical Methods 176 with a final mark of at least 60 or PP Statistics 186
Statistics 244	PP Statistics 214 and P Statistics 224
Statistics 318	PP Statistics 214, 224, 244 or PP Mathematical Statistics 214, 244
Statistics 348	P Statistics 318

13. Examination occasions

Particulars with regard to university examinations (first and second occasion) 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 –

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

14. Timetable clashes

- 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.
- 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.
- Students are encouraged, from a timetable perspective, to choose all 24 credits from the same discipline group (for example Industrial Psychology 114, 152 and 162; Economics 214, 244 ; Financial Management 314, 332, 352 and 354). If students choose modules from different disciplines, the possibility of timetable clashes becomes more eminent. In such cases students should test the module combination on the SU timetable system prior to selecting a particular combination.

15. Dean's Concession Examinations (DCEs)

- 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.
- 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.

- 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.
- Students who, according to the second paragraph 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.

16. 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.

17. Admission procedures, selection principles and the registration process

17.1 Terminology

- **Provisional acceptance** – Applicants will receive provisional acceptance on their grade 11 results. This means that applicants have conditional acceptance to the Faculty. Final acceptance will depend on the grade 12 final exam results.
- **New student intake** – Students that registered at Stellenbosch University for the first time.
- **Enrolment** – Amount of students that registered within a given time period.
- **Enrolment targets** – The faculty has limited capacity and resources. It is for this reason that we set enrolment targets to ensure that all resources are used effectively.
- **Selection programmes** – Applicants are selected for a specific programme by the Faculty Selection Committee. Not all applicants that meet the minimum requirements will necessarily be selected.
- **Mainstream** – The Faculty's normal three-year degrees.
- **Extended degree programme (EDP)** – The content of the three-year Management Sciences programme is spread out over four years with additional supporting modules included.

17.2 Selection and admission principles

- Applicants can apply electronically at www.maties.com.
- All applications close on **30 June**. (This means that your application must be finalised and **all** documentation must be handed in.)
- No applications that reach the University after the closing date will be accepted.

17.2.1 Admissions are limited in accordance with enrolment targets

New students are selected to reach the overall enrolment target for programmes in the Faculty. However, there is an additional selection process for the following programmes: BAccLLB, BAcc, BCom (Financial Accounting), BCom (Management Accounting), BCom (Law), BCom (International Business) and BCom (Management Sciences) (EDP). The Faculty will consider first, second or third programme choices. Should you have more than one EMS programme on your list, the Faculty will consider all EMS choices in order of your preference. Selection will be based on your selection mark, your grade 11 marks (or grade 12 marks, if you have already matriculated) and availability of places in the programme. This rule excludes BAccLLB and BCom (Law). In order to meet the target number for new student intake, the principle of overbooking is applied to compensate for the fact that not all students who apply and are provisionally accepted will eventually enrol in the EMS Faculty.

Take note of the following:

- The Faculty of Law handles the selection of students for the BAccLLB and BCom Law programmes.
- Applicants who do not meet the minimum requirements for the mainstream programme (as a result of grade 11 average and Mathematics mark) will be considered for the BCom (Management Science) (EDP) programme. Candidates will be informed after 30 June (but before 30 September) whether they received provisional acceptance.
- For the BCom (Management Sciences) EDP, in addition to academic merit, preference will be given to candidates from disadvantaged school communities.

17.2.2 Selection is based on academic merit

Applicant selection is based on a student's final grade 11 or NSC results. National Benchmark Test (NBT) results are not used in calculations concerning entry requirements or selection marks. Where necessary, they will be applied with regard to placement decisions in specific programmes such as the EDP programme. For this reason, the NBT test is compulsory for all EMS applicants.

Prospective students first have to meet the minimum requirements of the programme they wish to enrol for. Admission requirements per programme can be found in the Undergraduate Programmes section. Their applications are then submitted to the Faculty for selection on academic merit by means of a selection mark (SM).

The SM is calculated as follows:

(2 x Maths aggregate + aggregates of 5 other subjects, excluding Life Orientation)/7

It is important to note that the exact mark aggregate is used. In instances where applicants present more than six school subjects, the five highest marks are used for the aggregate of the "other" subjects. Applicants from unfamiliar schools usually present three subjects, apart from Maths. The calculation suggested for them is:

(2 x Maths aggregate + aggregates of 3 other subjects)/5

The number of applicants afforded entry is limited according to the selection marks. Be advised that this could imply that an applicant can be refused entry because his SM is too low in relation to that of other applicants, even though he may satisfy the entry requirements of a programme.

17.3 The selection process

To receive immediate provisional acceptance, a student must meet all the following requirements:

- Complete application submitted by 30 June **(no outstanding documents)**.
- A selection mark of at least 70.
- Meet the minimum requirement for the programme that they applied for.

These applicants are seen as top merit students and will not be subjected to further selection. They will receive immediate notification from the University that will confirm their provisional acceptance to the Faculty.

The following groups of applicants will NOT be granted immediate provisional acceptance. Their applications will be placed on a waiting list until the end of June, when the first phase of the selection process is due to commence.

- Prospective students with an SM of less than 70.
- Prospective students who apply for the programmes BAccLLB, BCom (Law) and BCom (Management Sciences) EDP.
- International students (students from non-South African schools).

All applicants on the waiting list will be notified of the outcome of the selection process by 30 September.

17.4. The registration process

During registration applicants who have been granted provisional acceptance to the Faculty may enrol for any programme within 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 BCom (Law) programmes – for these, special permission has to be obtained from the Faculty of Law.

18. Readmission requirements (HEMIS credits) for the Faculty: Minimum academic credit requirements

You must pass at least 50% of your total credits to continue your studies in the second academic year.

Example: BCom (Management Sciences)

a) The first year of the BCom (Management Sciences) programme has a total of 120 credits. You need to pass at least 60 credits by the end of November exams to continue your studies at Stellenbosch University.

b) Pass 60/120 = 0.50 HEMIS credits.

c) Readmission is evaluated **annually**, therefore students have to pass 50% of their total credits for any given academic and/or historic enrolment by the end of the November exams.

d) Minimum credits for readmission to the BCom (Management Sciences) programme:

- Second year: 128 credits: 64/128 = 0.50 *OR* 144 credits: 72/144 = 0.50
- Third year: 120 credits: 60/120 = 0.50

e) The minimum readmission requirements also apply to **the BCom (Management Sciences) Extended Degree Programme:**

- First year: 90 credits – pass 45 credits (45/90 = 0.50)
- Second year: 104 credits – pass 52 credits (52/104 = 0.50)
- Third year: 102 credits – pass 51 credits (51/102 = 0.50)
- Fourth year: 120 credits – pass 60 credits (60/120 = 0.50)

Undergraduate Programmes

1. Broad programmes

1.1 BCom programmes

1.1.1 BCom General

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 up to the third year of study.

Take note of the stipulations regarding timetable clashes (see Clause 9 in the Calendar Part).

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:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

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), 244(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.

Economics	281(32)
Financial Management	214(16), 244(16)
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)
Mercantile Law (Commerce)	285(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), 224(16), 244(16)

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.

Agricultural Economics	314(16), 334(16), 354(16), 364(16)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Economics	318(24), 348(24), 381(24), 388(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12), 332(12), 352(12), 354(12)
Financial Planning	378(48)
Geography and Environmental Studies	314(12), 323(12), 358(16), 363(16)
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	314(12), 324(12), 344(12), 354(12)
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), 324(12), 344(12), 354(12), 364(12)
Project Management	314(24)
Public and development management	314(12), 324(12), 348(24)
Quantitative Management	318(24), 348(24)
Sociology	314(12), 324(12), 344(12), 354(12), 364(12)
Statistics	318(24), 348(24)
Strategic Management	344(12)
Taxation	388(24)
Transport Economics	318(24), 348(24)

1.2 BCom (Management Sciences)

The BCom (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.

Please note: The recommended combinations are not prescriptive.

Also take note of the stipulation regarding timetable clashes (see Clause 9 in this Calendar Part).

1.2.1 BCom (Management Sciences) General

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)
Introduction to Transport and Logistics Systems	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	314(24)
Management of Corporate Social Responsibility	314(12) or
Business Ethics	314(12)
Strategic Management	344(12)

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), 332(12), 352(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Information System Management	314(18), 334(18), 354(18), 364(18)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

1.2.2 BCom (Management Sciences): 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 BCom 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, from agricultural input delivery, financial services, agribusinesses involved in production, distribution and marketing to food processing and production businesses.

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:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

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 subjects 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)

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 Management	314(12), 332(12), 352(12), 354(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.2.3 BCom (Management Sciences): 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 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 include: entrepreneur (start a business of your own, franchise, family business, or buy an 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)
Introduction to Transport and Logistics Systems	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)

Elective modules

Plus 48 credits from:

Economics	318(24), 348(24)
Financial Management	314(12), 332(12), 352(12), 354(12)
Industrial Psychology	314(12), 324(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.2.4 BCom (Management Sciences): 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; Financial Management Research; Capital Investments; Mergers and Acquisitions. Career possibilities include: 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)
Introduction to Transport and Logistics Systems	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), 332(12), 352(12), 354(12)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12)

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)

1.2.5 BCom (Management Sciences): 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 BCom (Management Sciences) with Human Resource Management as focal area 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), 332(12), 352(12), 354(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)

Note

Financial Management 314, 332, 352, 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.

1.2.6 BCom (Management Sciences): 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)
Introduction to Transport and Logistics Systems	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	212(8), 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	314(24)
Business Ethics	314(12) or
Management of Corporate Social Responsibility	314(12)
Strategic Management	344(12)

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), 332(12), 352(12), 354(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)

1.2.7 BCom (Management Sciences): 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)
Introduction to Transport and Logistics Systems	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	314(12), 324(12), 344(12), 354(12)
Project Management	314(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)

1.2.8 BCom (Management Sciences): Marketing Management focal area

The Marketing Management focal area and its instruction 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; and the development of a management orientation in approaching marketing challenges. Career possibilities include: marketing manager; advertising manager; promotions 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 electives.

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)
Introduction to Transport and Logistics Systems	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)

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), 332(12), 352(12), 354(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)

1.2.9 BCom (Management Sciences): 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 on 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 BCom programme, especially in the programme BCom (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) and 224(16) and 244(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)
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	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Quantitative Management	318(24), 348(24)
Transport Economics	318(24), 348(24)

1.2.10 BCom (Management Sciences): 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)
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)
Introduction to Transport and Logistics Systems	144(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	314(24)
Quantitative Management	318(24), 348(24)

Elective modules

Plus at least 48 credits from:

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

1.3 BCom Economic Sciences programmes

The BCom (Economic Sciences) programme offers students a relatively free choice 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.

Please note: The recommended combinations are not prescriptive.

Also take note of the stipulation regarding timetable clashes (see Clause 9 in this Calendar Part).

1.3.1 BCom (Economic Sciences) General

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:

Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

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) and 224(16) and 244(16)

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 elective 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.

Financial Accounting	288(32)
Financial Risk Management	212(8), 242(8), 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)
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)]
Logistics Management	214(16) * 244(16) *

Marketing Management	214(16) * 244(16) *
Mathematics	214(16), 244(16)
Mercantile Law (Commerce)	285(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)

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 Management	314(12), 332(12), 352(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	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 325(16), 344(16), 345(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), 344(16), 354(16)
Project Management	314(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)
Taxation	388(24)

1.3.2 BCom (Economic Sciences): 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]

1.3.3 BCom (Economic Sciences): Economic and Management Consultants focal area

The 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:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

Second year (144 credits)

Compulsory modules

Economics	214(16), 244(16), 281(32)
Statistics	214(16), 224(16), 244(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)	285(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 Management	314(12), 332(12), 352(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Mercantile Law (Commerce)	381(24)

1.3.4 BCom (Economic Sciences): Financial Sector focal area

This 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:

Financial Accounting	288(32) or
Financial Management	214(16), 244(16) or
Financial Risk Management	274(24)
Financial Risk Management	212(8), 242(8) 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
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Mathematical Statistics	318(32), 344(16), 354(16), 364(16) [Optional extra]

1.3.5 BCom (Economic Sciences): 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:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

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) and 224(16) and 244(16)
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	314(12), 324(12), 344(12), 354(12)
Operations Research	314(16), 326(16), 344(16), 354(16)
Project Management	314(24)
Quantitative Management	318(24), 348(24)

1.4 BCom Mathematic Sciences programmes

The BCom (Mathematical Sciences) programme offers students a relatively free choice 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.

Please note: The recommended combinations are not prescriptive.

Also take note of the stipulation regarding timetable clashes (see Clause 9 in this Calendar Part).

1.4.1 BCom (Mathematical Sciences) General

First year (128 or 136 credits)

Compulsory modules

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)

Or

Computer Science	114(16), 144(16)
Economics	114(12), 144(12)
Financial Accounting	188(24)

* Business management 113(12) and 142(6) are followed in the second year.

Second year (128 or 130 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, or if Computer Science 114(16) and 144(16) are followed and passed in the first year, then Business Management 113(12) and 142(6) are compulsory plus 48 credits, of which at least 32 credits must be from one subject.

Please note: Where Business Management 113(12) and 142(6) are listed as prerequisites, the relevant second-year modules can only be followed in the third year.

Actuarial Science	274(24) or
Financial Risk Management	274(24)
Computer Science	214(16), 244(16)
Economics	214(16), 244(16), 281(32)
Financial Accounting	288(32)
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)

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), 326(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:

Computer Science	314(16), 315(16), 334(16), 344(16), 354(16), 364(16)
Economics	318(24), 348(24), 381(24), 388(24)
Financial Mathematics	378(32)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 325(16), 344(16), 345(16), 365(16)
Project Management	314(24)

1.4.2 BCom (Mathematical Sciences): 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 (128 or 136 credits)

Compulsory modules

Actuarial Science	112(8)
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 (130 credits)

Compulsory modules

Business Management	113(12), 142(6)
Computer Science	214(16), 244(16)
Mathematical Statistics	214(16), 244(16)
Mathematics	214(16), 244(16)

Elective modules

Plus at least 16 credits from:

Please note: Where Business Management 113(12) and 142(6) are listed as prerequisites, the relevant second-year modules can only be followed in the third year.

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

Third year (at least 120 credits)

Compulsory modules

Computer Science	314(16), 315(16), 334(16), 344(16), 354(16), 364(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), 326(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:

Modules from the list above not taken already:

Computer Science	314(16), 315(16), 324(16), 344(16), 354(16), 364(16)
Economics	318(24), 348(24), 388(24)
Financial Mathematics	378(32)
Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Mathematics	314(16), 324(16), 325(16), 344(16), 345(16), 365(16)
Project Management	314(24)

1.4.3 BCom (Mathematical Sciences): Financial Risk Management focal area

People with training in Financial Risk Management, Mathematical Statistics and Financial Mathematics are employed by 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 sector.

First year (128 or 136 credits)

Compulsory modules

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

Plus

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) Note: Business Management 113(12) and 142(6) are followed in the second year.
Economics	114(12), 144(12)
Financial Accounting	188(24)

Second year (136 or 154 credits)

Compulsory modules

If Computer Science 114(16) and 144(16) are followed and passed in the first year, then Business Management 113(12) and 142(6) are compulsory plus the compulsory modules below.

Please note: Where Business Management 113(12) and 142(6) are listed as prerequisites, the relevant second-year modules can only be followed in the third year.

Actuarial Science	274(24) or
Financial Risk Management	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)

1.4.4 BCom (Mathematical Sciences): 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 businesses. In these capacities they form part of the

challenging management and decision-making processes in large organisations. Students with this type of training are well qualified to obtain stimulating and rewarding positions.

First year (128 or 136 credits)

Compulsory modules

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

Plus

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

Or

Computer Science	114(16), 144(16)
Economics	114(12), 144(12)
Financial Accounting	188(24)

* Business Management 113(12) and 142(6) are taken in the second year.

Second year (128 or 130 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 ***or*** *if Computer Science 114(16) and 144(16) are being followed and passed in the first year, then Business Management 113(12) and 142(6) are compulsory plus 48 credits of which at least 32 credits should be from one subject.*

Please note: Where Business Management 113(12) and/or 142(6) are listed as prerequisites, the relevant second-year modules can only be followed in the third year.

Actuarial Science	274(24) or
Financial Risk Management	274(24)
Computer Science	214(16), 244(16)
Economics	214(16), 244(16), 281(32)
Financial Accounting	288(32)
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:

Computer Science	314(16), 315(16), 334(16), 344(16), 354(16), 364(16)
Economics	318(24), 348(24), 388(24), 381(24)
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), 325(16), 344(16), 345(16), 365(16)
Mathematical Statistics	354(16)
Operations Research	314(16), 326(16), 344(16), 354(16)

1.4.5 BCom (Mathematical Sciences): 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 that organisations face.

First year (128 or 136 credits)

Compulsory modules

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)

Or

Computer Science	114(16), 144(16) NB: Business Management 113(12) and 142(6) are taken in the second year.
Economics	114(12), 144(12)
Financial Accounting	188(24)

Second year (128 or 130 credits)

Compulsory modules

Plus 64 credits of which Business Management 113(12) and 142(6) are compulsory plus the compulsory modules below.

Please note: Where Business Management 113(12) and 142(6) are listed as prerequisites, the relevant second-year modules can only be followed in the third year.

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), 326(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:

Computer Science	315(16), 334(16), 344(16), 354(16)
Financial Mathematics	378(32)
Logistics Management	314(12), 324(12), 344(12), 354(12)
Management of Corporate Social Responsibility	314(12)
Mathematical Statistics	318(32) plus two of 344(16), 354(16), 364(16)
Project Management	314(24)

1.5 BCom (International Business)

This programme creates opportunities for employment within firms with an international footprint. It caters for a diverse group of students as it has an interdisciplinary approach and will thus draw students with an interest in both Management Sciences and Social Sciences. Traditional programme development usually does not allow for students to combine modules from both these study fields to the level that is allowed for in this programme.

This programme widens the access to international experience through the international exchange semester, and opens opportunities for students to study abroad.

The programme will be attractive for full degree international students as it offers a combination of Business and Social Sciences that resonates with programmes abroad.

The programme will also actively engage short-term (non-degree-seeking) international students as the module profile of the programme is aligned with the requirements of the programmes of the exchange partners.

Please note:

The BCom (International Business) programme is a strict selection programme with set criteria that have to be met in order to proceed from one academic year to the next:

- Students whose modules are not up to date at the beginning of their third academic year have to change their programme to BCom (Management Sciences).
- No transfer from an existing programme to BCom (International Business) is possible.

First year (120 credits)

Compulsory modules

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

Plus one of the following elective modules (24 credits)

Chinese	178(24) or
French	178(24) (for students without French in Grade 12) 188(24) (for students who passed French in Grade 12) or
German	178(24) (for students without German in Grade 12) 188(24) (for students who passed German in Grade 12)

Elective modules

Plus modules from the list below to make up at least 120 credits, including the modules above:

Industrial Psychology	152(6)
Sociology	114(12), 144(12)
Language and thinking skills for EMS	114(12) *
Philosophy	142(6) *

* Students cannot choose both these modules

Second year (144 credits)

Compulsory modules

Economics	214(16), 244(16)
Financial Accounting	188(24)
Political Science	114(12), 144(12)

Plus at least one of the following modules in both the first and second semester:

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

Elective modules

Plus at least 32 credits from:

Entrepreneurship and Innovation Management	214(16) ** 244(16) **
Financial Management	214(16), 244(16)
Marketing Management	214(16) * 244(16) *
Sociology	212(8), 222(8), 242(8), 252(8)

* If students choose the Marketing Management stream, Industrial Psychology 224 is compulsory in the programme (can be chosen in the third or fourth year).

**If students choose Entrepreneurship and Innovation Management 214 and 244, Sociology 212, 222, 242 and 252 cannot be chosen due to timetable restrictions.

Third year (132 or 136 credits)

Compulsory modules

Exchange Semester	342(60)
Introduction to Intercultural Communication	312(12)
Legal Aspects of International Transactions	312(12)
Management of Corporate Social Responsibility	314(12)
Political Science	222(8)

*Plus one of the following modules **not taken** in the second year:*

Entrepreneurship and Innovation Management	214(16) or
Financial Management	214(16) or
Marketing Management	214(16) *

Elective modules

Plus at least 12 credits from:

Industrial Psychology	224(16) *
Political Science	212(8)
Social Anthropology	324(12) **

* If students choose the Marketing Management stream, Industrial Psychology 224 is compulsory in the programme (can be chosen in the third or fourth year).

**If students choose Financial Management 314 and 332, Social Anthropology 324 cannot be chosen due to timetable restrictions.

Fourth year (120 credits)

Compulsory modules

Strategic Management	344(12)

Plus one of the following modules as a continuation to the final year based on the prior focus area selected in the second and third years:

Entrepreneurship and Innovation Management	318(24), 348(24) or
Financial Management	314(12), 332(12), 352(12), 354(12) *** or
Marketing Management	314(12), 324(12), 344(12), 354(12) **

Elective modules

Plus at least 60 credits from:

Economics	318(24), 348(24)
Entrepreneurship and Innovation Management	318(24), 348(24)
Financial Management	314(12) *** 332(12) *** 352(12), 354(12)
Marketing Management	314(12) ** 324(12) ** 344(12), 354(12)
Industrial Psychology	224(16) *
Political Science	242(8), 324(12) **
Social Anthropology	324(12) ***

* If students choose the Marketing Management stream, Industrial Psychology 224 is compulsory in the programme (can be chosen in the third or fourth year).

** If students choose Marketing Management 314 and 324, Political Science 324 cannot be chosen due to timetable restrictions.

***If students choose Financial Management 314 and 332, Social Anthropology 324 cannot be chosen due to timetable restrictions.

2. Professional programmes

All the professional programmes offer students the opportunity to register with an occupational council and/or a professional society or write qualification examinations.

2.1 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 (154 credits)

Compulsory modules

Auditing	288(24)
Business Ethics	214(8)
Financial Accounting	278(32)
Information Systems	214(6), 242(6)
Management Accounting	278(30)
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)

2.2 BCom (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)

2.3 BCom (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)	285(32) Students who have passed Mercantile Law (Acc) 193 do not register for Mercantile Law (Commerce) 285, but rather for Mercantile Law (Commerce) 253.
Marketing Management	214(16)

Third year (144 credits)

Compulsory modules

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

2.4 BCom (Industrial Psychology)

The previous programme name was BCom (Psych).

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 BCom (Industrial Psychology) programme, the BComHons (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 MCom (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)
Psychology	114(12), 144(12)
Statistics	186(18) or
Statistical Methods	176(18)
Theory of Interest	152(6)

Second year (128 credits)

Compulsory modules

Industrial Psychology	214(16), 224(16), 244(16)
Psychology	213(8), 223(8), 243(8), 253(8)

Plus 48 credits from the following modules, whilst maintaining the prerequisites of the second- and third-year modules (in other words select one full one and one of the others to make up 48):

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

Industrial Psychology	314(12), 324(12), 348(24)
Psychology	314(12) * 324(12) * 348(24)

Plus 48 credits from one of the following three subjects:

Entrepreneurship and Innovation Management	318(24), 348(24) or
Financial Management	314(12), 332(12), 352(12), 354(12) or
Marketing Management	314(12), 324(12), 344(12), 354(12)

Financial Management 314, 332, 352, 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.

Transitional Measures

Students who have failed Psychology 318 in 2014 and/or 2015 must register for this module again in 2016.

Remarks

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

2.5 BCom (Management Accounting)

This programme offers professional training aimed at the chartered management 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	214(6), 242(6)
Management Accounting	288(24)
Marketing Management	214(16)
Mercantile Law (Commerce)	285(32) Students who have passed Mercantile Law (Acc) 193 do not register for Mercantile Law (Commerce) 285, but rather for Mercantile Law (Commerce) 253.

Third year (144 credits)

Compulsory modules

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

2.6 BCom: 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 BCom degree. Additional information on this diploma programme can be found under the Department of Business Management, in the latter part of this Calendar Part. 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:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	144(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

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)	285(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)

2.7 BCom: Investment Management focal area

The focal area Investment Management is specifically developed to enable students after completion of their BCom 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 focused 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 BCom programme. Successful completion of a BCom 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) (need to pass with at least 65% to enrol for Statistics second-year modules) or
Statistics	186(18)
Theory of Interest	152(6)

Elective modules

Plus at least 24 credits from:

Business Communication	142(8)
Geo-Environmental Science	124(16), 154(16)
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	114(12), 144(12)
Public and development management	114(12), 144(12)
Sociology	114(12), 144(12)
Introduction to Transport and Logistics Systems	144(12)

Second year (144 credits)

Compulsory modules

Economics	214(16), 244(16)
Financial Accounting	288(32)
Financial Management	214(16)
Investment Management	254(16)
Statistics	214(16) and 224(16) and 244(16)

Third year (at least 120 credits)

Elective modules

Investment Management	314(12), 324(12), 344(12), 348(12), 354(12)
Financial Management	314(12), 332(12) [only compulsory for admission to BComHons (Financial Analysis)]

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 Management	314(12), 332(12), 352(12), 354(12)
Marketing Management	314(12), 324(12), 344(12), 354(12)
Statistics	318(24), 348(24)
Strategic Management	344(12)

3. Programmes that include studies in Law

3.1 BAccLLB

This programme offers the applicable education necessary to qualify as a chartered accountant and simultaneously as 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 (158 credits)

Compulsory modules

Auditing	288(24)
Business Ethics	214(8)
Constitutional Law	271(26)
Information Systems	214(6), 242(6)
Interpretation of Enacted Law	211(12)
Law of Criminal Procedure	271(20)
Private law	272(16), 273(16)
Roman Law	271(24)

Third year (174 credits)

Compulsory modules

Constitutional Law	312(12)
Financial Accounting	278(32)
International Law	341(12)
Management Accounting	278(30)
Mercantile Law	311(12), 312(12)
Private Law	372(32), 373(32)

Fourth year (180 credits)

Compulsory modules

Administrative Law	411(16)
Information Systems	312(12)
Law of Civil Procedure	371(24)
Law of Taxation	411(12)
Taxation	298(24)
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)

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)

3.2 BCom (Law)

This programme not only includes the broad outcomes of the ordinary BCom 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)

4. Four-Year Bachelor's programme (Extended degree programme): BCom (Management Sciences) EDP

Objective

The extended degree programme has at least three objectives, namely allowing students that do not meet the formal entry requirements for BCom studies due to educational disadvantages the opportunity to register for a BCom; easing the transition between school and university; and allowing students the opportunity to develop a solid foundation for later years of study. It offers students with inappropriate foundations in Mathematics, Accountancy and academic communication skills the opportunity to develop this foundation through preparatory 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.

Further criteria used for selection:

- Academic achievement compared to the minimum admission requirements of the BCom 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 June. Prospective students who have been provisionally accepted for the three-year BCom Management Sciences programme, but due to the results of their final National Senior Certificate exams do not meet the admission requirements, have no claim to automatic inclusion in the Extended Degree Programme. Such students can have their names placed on a waiting list and after the official registration period be considered for placement depending on the number of available places. Please note that the Faculty may use NBT-results to inform placement decisions.

Students selected for this programme should note the following requirements:

- Registration and attendance of classes and tutorials for the following modules is compulsory:
  - 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
  - Introduction to Financial Accounting 171 for Financial Accounting 188
  - Academic Literacy for EMS 111 for overall re-admittance to the second year
  - If a student has not successfully completed Mathematics for EMS 171 or Academic Literacy for EMS 111 after a maximum of two registrations, the student will not be allowed to register for the BCom (Management Sciences) EDP again.
- The same readmission criteria for all students in the faculty apply to EDP students as well.
- Students are compelled to make use of tutors/mentors in the modules where this support is available. Module mentor support for Business Management 113 and Theory of Interest 152 is compulsory.
- Students are required to meet with the coordinator on a regular basis in order to monitor their progress.
- The choice of modules in this programme is limited to the curriculum prescribed for the BCom 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.

4.1 BCom (Management Sciences) EDP (Extended degree programme)

Take note of the stipulations regarding timetable clashes (see clause 9 in the calendar part).

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 in the year level of 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)
Introduction to Transport and Logistics Systems	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), 332(12), 352(12), 354(12)
Industrial Psychology	314(12), 324(12), 348(24)
Information System Management	314(18), 334(18), 364(18), 354(18)
Logistics Management	314(12), 324(12), 344(12), 354(12)
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 BCom (Management Sciences), BCom (Economic Sciences) or BCom (Mathematical Sciences) for which students cannot register as part of the BCom 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	314(24)
Strategic Management	344(12)
Taxation	388(24)

Postgraduate Programmes

Undergraduate module requirements for postgraduate programmes

Module requirements for postgraduate programmes

Students should review the table below to ascertain whether they meet the minimum module requirements for admission to certain postgraduate programmes. Passing the relevant modules, however, does not guarantee admission to the relevant postgraduate programme. Each programme may have further specific selection criteria, and these may vary depending on the pool of applications for the programme. The table below is thus meant merely as a guideline to assist with undergraduate module selection.

BComHons (Industrial Psychology)	• BCom (Industrial Psychology) degree programme – required modules include Psychology first-, second- and third-year modules, plus Industrial Psychology 114, 152, 162, 214, 224, 244 and 314, 324, 348. • Minimum pass requirement of 65% in Industrial Psychology 314, 324, 348.
BComHons (Human Resource Management)	• Minimum pass requirement of 65% in Industrial Psychology 314, 324, 348.
BComHons (Economics)	• Bachelor's degree with minimum pass requirement of 60% in Economics 318 and 348. • Minimum 60% pass requirement within the Intensive Mathematics course that precedes the formal Honours programme. • Has to be completed within three years. If not, the compulsory modules have to be repeated.
BComHons (Economics and Mathematical Statistics)	• Selection to the BComHons in Economics and Mathematical Statistics has to be made by both the Department of Economics (minimum pass requirement of 60% in Economics 318 and 348) and the Department of Statistics and Actuarial Science (minimum pass requirement of 60% in Mathematical Statistics 3). • Has to be completed within three years. If not, the compulsory modules have to be repeated.

BComHons (Quantitative Management)	• Minimum pass requirement of 60% in Quantitative Management 318 and 348. • Quantitative Management 318(24) and 348(24) and Quantitative Modelling 711 are prerequisites for Methods in Quantitative Management 741.
BComHons (Logistics Management)	• Minimum pass requirement of 60% in Logistics Management 314, 324, 344, 354.
BComHons (Operations Research)	• Operations Research 324(16) or Mathematics 244(16) is a prerequisite for Decision making 712. • Operations Research 244(16) is a prerequisite for Advanced Linear Programming 712. • Quantitative Management 244(16) or Introduction to Optimization 722 or Operations Research 244(16) is a prerequisite for Optimization 852. Operations Research 314(16) and Operations Research 344(16) or Quantitative Management 318(24) and Quantitative Management 348(24) passed with a minimum of 60% is a prerequisite for Facilities 742. • Operations Research at third-year level plus Meta-heuristics 713 is a prerequisite for Scheduling 714. • Operations Research 344(16) or Quantitative Management 318(24) and 348(24) passed with a minimum of 65% is a prerequisite for Theory 743. • Probability Theory and Statistics 144(16) and Operations Research 354(16) are prerequisites for Inventory Control 743. • Operations Research 354(16) or Introductory Forecasting 723 is a prerequisite for Forecasting 853.
BComHons (Transport Economics)	• Minimum pass requirement of 60% in Transport Economics 318(24) and Transport Economics 348(24). • Transport Economics 318(24) and 348(24) are prerequisites for Urban Transport Economics 742, Economic Investment Planning 712, Air Transport Economics 742 and Shipping Transport Economics 773. • Transport Economics 318(24) and 348(24) or Economics 318(24) and 348(24) are prerequisites for Competition and Regulation 715.

	• Transport Economics 318(24) and 348(24) or Logistics Management 244(16) are prerequisites for Road Transport Management 744.
BComHons (Financial Analysis)	• Average of 65% for the 60 credits from Investment Management 314(12), 324(12), 344(12), 348(12), 354(12). • Financial Management 314 and 332 are pass prerequisites to register for the module Financial Management 713 within the Honours degree programme.
BComHons (Business Management)*	• Any four Business Management modules.* • Financial Management (Research) 352(12) or Marketing Management (Marketing Research) 344(12) is a pass prerequisite for BComHons (Business Management 778)
BComHons (Business Management with specialisation areas)*	
Marketing Management	• Marketing Management 314(12), 324(12), 344(12), 354(12).* • Marketing Management (Marketing Research) 344(12) is a pass prerequisite for BComHons (Business Management: Specialisation in Marketing Management 778). • Consumer Behaviour 224 is a pass prerequisite to register for the module Consumer Psychology 721 within the Honours degree programme.
Financial Management	• Financial Management 314(12), 332(12), 352(12), 354(12).* • Financial Management (Research) 352(12) is a pass prerequisite for BComHons (Business Management: Specialisation in Financial Management 778)
Strategy and Innovation	• Entrepreneurship and Innovation Management 318(24), 348(24) and Strategic Management 344(12. * • Strategic Management 344 is a pass requirement. • Financial Management (Research) 352(12) or Marketing Management (Marketing Research) 344(12) is a pass prerequisite for BComHons (Business Management: Specialisation in Strategy and Innovation 778)

BComHons (Actuarial Science)	• BCom (Actuarial Science) degree. • See later sections for specific selection criteria.
BComHons (Financial Risk Management)	• Minimum pass requirement of 60% in Financial Risk Management 3.
BComHons (Statistics)	• Minimum pass requirement of 60% in Statistics 3.
BComHons (Mathematical Statistics)	• Minimum pass requirement of 60% in Mathematical Statistics.
BComHons (Management Accounting)	• Minimum pass requirement of 60% in Financial Accounting 389 and Management Accounting 388.
BAccHons	• Weighted average performance mark of 60% for Financial Accounting 379; Management Accounting 378; Auditing 378 and Taxation 399 **or** Weighted average performance mark of 55% for Financial Accounting 379; Management Accounting 378; Auditing 378 and Taxation 399 and a performance mark of 55% for Financial Accounting 379.

* *Please note:* Regardless of the number of credits specified per specialisation area, a minimum of 60% average must be obtained in order to be considered for the Honours programme.

1. Postgraduate diploma programmes

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 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 BCom (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
10362	886	60	Finance Applications (SA5)	Both
10364	845	40	Finance and Investment Technical (F105)	2
10365	846	40	Finance and Investment Technical (ST6)	2
10361	883	60	General Insurance Applications (F203)	Both
10360	843	40	General Insurance Technical (F103)	2
10369	881	60	Health and Care Applications (F201)	Both
10368	811	40	Health and Care Technical (F101)	1
10366	885	60	Investments Applications (F205)	Both
10373	882	60	Life Insurance Applications (F202)	Both
10372	812	40	Life Insurance Technical (F102)	1
10377	884	60	Pensions Applications (F204)	Both
10376	814	40	Pensions Technical (F104)	1

1.2 Postgraduate Diploma in Business Management and Administration (Bellville Park Campus)

Credits

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

Programme description

This internationally accredited programme is aimed at working professionals who want to acquire general management skills underpinned by an entrepreneurial approach to business.

This one-year programme has two formats – Blended Learning and Modular. The Blended Learning format (mixed learning format) with compulsory on-campus blocks at the start and the end of the programme. In between these blocks, classes are presented late afternoons on Wednesdays, and students can choose between on-campus and online delivery. The Modular format is delivered in five one-week blocks (Monday to Saturday) spread over one year. Classes are presented in English.

Programme outcomes

The purpose of this general management programme is to:

- Equip you with entrepreneurial skills
- Broaden your knowledge of the various management disciplines in the business environment
- Enable you as a working professional to undertake development by means of a systematic survey of current thinking and practice and to learn via application in a working environment
- Equip you with the ability to define and develop an enterprise's value proposition in an increasingly competitive and volatile environment
- Enable you to use analytical skills to deal with business problems, but always within the particular social system in which you operate
- Deal with business problems both systematically and analytically.

Specific admission requirements

The following minimum admission criteria are applicable:

- A three-year Bachelor's degree, advanced or postgraduate diploma at NQF level 7, or higher.
- A minimum of two years' relevant full-time work experience (preferably at a managerial level).
- The SHL selection test for Numeric, Verbal and Inductive Reasoning. This test can be completed either on campus or online.
- A comprehensive CV indicating your work experience.
- Mathematics at NNS (Grade 12) level or equivalent; proficiency in English.

Programme content

It is expected of students to complete twelve compulsory modules and three electives:

Programme module:

Code	Module	Credits	Module Name	Semester
10723	778	120	Business Management and Administration	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
13163	716	8	Digital Quotient	Both
51810	716	8	Economics for Managers	Both
47872	716	8	Entrepreneurship	Both
13152	716	8	Human Capital Management	Both
13159	716	8	Information System Principles	Both
11747	716	8	Innovation Management	Both

13158	716	8	Managerial Accounting	Both
13157	716	8	Managerial Statistics	Both
23795	716	8	Marketing Management	Both
13160	716	8	Principles of Operations	Both
60763	716	8	Sustainable Enterprise	Both
13162	716	8	Systems Methods	Both

Elective modules:

Code	Module	Credits	Module Name	Semester
51330	716	8	Futures studies	Both
12299	716	8	Management Coaching	Both
51993	717	16	Project Management *	Both
12584	716	8	Risk Management	Both

* Note: The Project Management elective has a weighting of 16 credits, which is equal to two of the other electives. Students who choose this elective only need to select one other elective.

Assessment and examination

All modules are assessed via written assignments and the submission of a final assignment. Students have to obtain at least 50% for each core module (96 credits) and 50% for 24 credits via elective modules to graduate.

Assessment and recognition of prior learning

Wider access is assured through the Assessment and Recognition of Prior Learning (ARPL) process. According to Stellenbosch University's policy framework for ARPL, a limited number of non-degree students may join the MBA programme. The number of ARPL candidates may not exceed 10% of an annual intake of a programme.

Stringent assessment criteria are applied to determine whether applicants have developed the necessary generic competencies during their undergraduate learning.

1.3 Postgraduate Diploma in Development Finance (Bellville Park Campus)

Credits

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

Programme description

This internationally accredited programme is the ideal starting point for junior and mid-level managers interested in a career in Development Finance and the funding of growth initiatives such as roads, telecommunication infrastructure, hospitals and houses. The programme is focused on Africa, but the skills acquired can be applied in any developing economy. This is a modular programme (two on-campus blocks of classes spread over one year), which allows students to study while they work.

Programme outcomes

Upon completion of this programme, participants should be able to demonstrate the ability to:

- Understand development finance, especially in Africa.
- Diagnose and analyse development finance policy issues, problems or projects.
- Contribute meaningfully to the design and formulation of development finance policies and programmes to address development needs within specific contexts.
- Implement development finance policies.
- Monitor and evaluate the feasibility and outcomes of development finance projects.
- Write an analytical research report on a topical development finance issue.

Recognition of prior learning

A limited number of candidates without the required degrees but with proven relevant experience in the field of development finance can be admitted on the basis of a portfolio of proven comparable competencies.

Specific admission requirements

A Bachelor's degree in any of the following: Economics, Finance, Accounting, Commerce or Management

or

Any other three-year Bachelor's degree with at least two years' relevant experience.

Programme content

Students need to complete six compulsory modules and two elective modules.

Programme module:

Code	Module	Credits	Module Name	Semester
58424	778	120	Development Finance	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12445	715	15	Financial Analysing and Project Evaluation	Both
11324	715	15	Finance and Development in Africa	Both
11331	715	15	Public Private Partnership	Both
11325	715	15	Research Orientation	Both
11327	715	15	Risk Management in Development Finance Institutions	Both
62197	715	15	Small-Scale Enterprise Development	Both

Elective modules:

Code	Module	Credits	Module Name	Semester
11329	715	15	Agricultural Finance	Both
11328	715	15	Leadership in Development Finance	Both
11326	715	15	Monitoring and Evaluation of Development Projects	Both
11330	715	15	Mortgage and Housing Finance	Both
12707	715	15	Social Entrepreneurship	Both

Assessment and examination

Student progress is monitored by means of continuous assessment. Learning achievement of students will be assessed through: tests, individual and group assignments.

1.4 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 the only dispute settlement diploma offered by a tertiary institution in South Africa. The successful completion of the programme will enable candidates to apply for admission as mediators or arbitrators on the panels of the foremost private service providers in this field.

On a professional level, this diploma will enable participants, including people employed in other professional fields, such as attorneys, architects and accountants, to establish themselves as dispute settlement practitioners in a constructive and cost-effective way. It also includes people working in the corporate or public sector, as well as those who do not wish to practise as dispute settlement specialists, but who are expected to deal with conflict and differences.

Programme outcomes

Learning philosophy

The programme is based on a student-centred learning approach. It combines theory with practical case studies and role play. 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.

Programme module:

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

1.5 Postgraduate Diploma in Environmental Management

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, Town and Regional Planning, Surveying or any other field regarded as equivalent. On the basis of relevant work experience indicated on the application, other fields could be accommodated.

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 requires 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
59617	775	15	Environmental Economics	Both
10769	771	15	Environmental Ethics (Advanced Study)	Both
11919	771	15	Environmental Governance	Both
11179	771	15	Environmental Issues	Both
60704	771	15	Environmental Law	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 annually, 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.

1.6 Postgraduate Diploma in Financial Planning

Credits
A minimum of 120 credits must be obtained.

Programme description
The postgraduate programme is presented at the Bellville Park campus of Stellenbosch University. The lectures take place Tuesday and Thursday evenings. Students can choose to complete the programme in one or two years.

Specific admission requirements
Grade 12 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.
- BCom or LLB OR a bachelor's degree approved by Senate.

Duration
One or two years.

Presentation
English.

Programme content
See programme outline below.

Programme module

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
10574	713	30	Corporate Financial Planning	1
10454	744	30	Financial Planning Case Study	2
10455	711	30	Financial Planning Environment	1
10647	742	30	Personal Financial Planning	2

Assessment and examination

Module work is assessed by means of tests and examinations. An additional FPI examination (administered by the FPI) is written to comply with one of 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.

Application

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

Programme start date

January

1.7 Postgraduate Diploma in Futures Studies (Bellville Park Campus)

Credits

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

Programme description

Full details are available:

http://www.usb.ac.za/Common/Pdfs/1Pagers/PGDFutureStudies/USBPGD_Futurestudies.pdf

Futures Studies serve the needs of individuals, groups, organisations and governments to enhance an understanding of possible changes in their long-term future and to respond accordingly. This is particularly important in the light of Africa's and South Africa's imperative to raise the quality of life of its peoples. This, in turn, requires the development of a growing number of open-minded citizens and institutions capable of displaying a holistic understanding of the social, ethical, political, technical and economic forces shaping the future.

As the only programme of its kind presented in Africa (and one of only a few in the world), the Postgraduate Diploma in Futures Studies equips candidates with high-level competencies to react meaningfully to growing complexity in the organisational environment, while taking into account the unique developmental challenges facing Africa and South Africa (including health and education deficits, global participation, and human security). The Postgraduate Diploma in Futures Studies contributes to candidates' ability to make significant strategic long-term decisions in an increasingly internationally competitive and volatile environment.

Programme outcomes

The program outcomes and objectives are based on the following core values:

- Cultivating a professional conscience.
- Developing relevant thinking styles and skills.
- Meeting internationally acceptable and recognised quality standards.

Programme format and credits

- The programme is presented over a period of one year through blended learning. Students choose between on-campus classes or online classes. There is a compulsory on-campus block of four days at the start of the programme.
- Teaching, discussions and presentations will be conducted in English; however, assignments, tests and examinations may be written in Afrikaans.

Specific admission requirements

The following admission requirements are applicable for the Postgraduate Diploma in Futures Studies:

- An appropriate, recognised and valid Bachelor's degree from a university or university of technology.
- A minimum of two years' experience in the field of strategic management or long-term planning.
- A limited number of candidates may be admitted in accordance with Assessment and Recognition of Prior Learning (ARPL).
- The same criteria are applicable as in the case of the Postgraduate Diploma in Business Management and Administration, including the submission of a comprehensive portfolio of learning.

Programme module

Code	Module	Credits	Module Name	Semester
51330	779	120	Futures studies	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
11319	763	20	Applied philosophy	Both
11318	762	20	Applied systems thinking	Both
11323	766	20	Managing for change	Both
11321	764	20	Measuring and making the future	Both
11317	761	20	Principles of futures studies	Both
11322	765	20	Understanding the world	Both

1.8 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
See layout below.

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

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

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1.9 Postgraduate Diploma in Leadership Development (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 discernible 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 elective enables participants to develop a specific leadership attribute or a more specialised core competence.

Compulsory modules:

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

Elective modules:

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

1.10 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, retail management, 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
11158	716	10	Advertising and Sales Promotion	2
10532	719	10	Brand Management	2
59625	715	7	Consumer Behaviour	1
11157	717	5	Financial Methods	2
10538	718	5	Industrial Marketing	1
60801	714	13	Introduction to Marketing	1
10425	746	5	Marketing Channels	2
10400	750	20	Marketing Plan	2
10399	745	15	Marketing Research	2
65641	749	10	Retail Management	1
10423	748	10	Services Marketing	1
10709	747	10	Strategic Marketing	2

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 the last day of October of the previous year.

Programme start date

The last week of January.

1.11 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, 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

A relevant Bachelor's degree and a minimum of two years' experience in a project management position.

Programme content

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

Programme module

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
12979	713	8	Project Communication Management	Both
12980	714	20	Project Cost Management	Both
12981	714	20	Project Management and EQ	Both
12982	713	8	Project Procurement Management	Both
10851	713	12	Project Risk Management	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.

1.12 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 in one of the following major subjects: Town and Regional Planning, Housing, Geography and Environmental Studies, Sociology, Social sciences, 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 programme of formal studies with 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 acquired 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 format consisting of a minimum of a six-day modular contact session per module (unless a longer duration is specified in the Course Outline of the 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/her original application, but all completed modules will be recognised for the purpose of the degree.

Also note that a Postgraduate Diploma is an Honours-level multidisciplinary postgraduate qualification that is formally recognised by the South African Qualifications Authority and is also, therefore, recognised internationally.

Programme content

(A brochure on the Postgraduate Diploma in Sustainable Development is available at http://www.sun.ac.za/english/faculty/economy/spl/networks-links/downloads.)

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 Postgraduate Diploma in 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, to a maximum of four modules. Note that students can continue their specialisation through to the MPhil level.

The coursework component of the Postgraduate Diploma in 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 Food Systems, Renewable and Sustainable Energy, Political Economy of Development) requires a specific combination of module selections. 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 in 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

In addition to the compulsory module, seven core modules must be selected from the options described below:

Core modules from the following core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
11490	772	15	Biodiversity and Ecosystem Services	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
13356	771	15	Comparative Study in Sustainable Living	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
13355	771	15	Development Theory and Practice	Both
11188	776	15	Ecological Design for Community Building	Both
13354	771	15	Economy of Sustainable Transitions	Both
11489	772	15	Facilitation for Sustainability Transitions	Both
12232	774	15	Food Security and Globalised Agriculture	Both
13359	771	15	Food Systems Transitions	Both
11195	773	15	Governance Globalisation and Civil Society	Both
12230	771	15	Introduction to Development Planning	Both
11491	773	15	Leadership and Environmental Ethics	Both
12531	771	15	Renewable Energy Financing	Both
11651	771	15	Renewable Energy Policy	Both
11199	775	15	Sustainable Cities	Both
60763	774	15	Sustainable Enterprise	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both
12530	771	15	System Dynamics Modelling	Both

Core modules presented by departments in the Engineering Faculty (a maximum of two may be selected):

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
11294	747	15	Introduction to Solar Energy	Both
64890	714	15	Renewable Energy Systems	1

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.)

Program-module:

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
13355	771	15	Development Theory and Practice	Both
12230	771	15	Introduction to Development Planning	Both
58718	771	15	Sustainable Development	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 in 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.

Two core modules must be selected from the options described below:

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11490	772	15	Biodiversity and Ecosystem Services	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
13356	771	15	Comparative Study in Sustainable Living	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
11188	776	15	Ecological Design for Community Building	Both
13354	771	15	Economy of Sustainable Transitions	Both
11489	772	15	Facilitation for Sustainability Transitions	Both
12232	774	15	Food Security and Globalised Agriculture	Both
13359	771	15	Food Systems Transitions	Both
11195	773	15	Governance Globalisation and Civil Society	Both
11491	773	15	Leadership and Environmental Ethics	Both
12531	771	15	Renewable Energy Financing	Both
11651	771	15	Renewable Energy Policy	Both
11199	775	15	Sustainable Cities	Both
60763	774	15	Sustainable Enterprise	Both
12530	771	15	System Dynamics Modelling	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both

Core modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
11294	747	15	Introduction to Solar Energy	Both
64890	714	15	Renewable Energy Systems	1

Option 3: Sustainable Food Systems

Students interested in the entire food chain stretching from primary production, to the consumption of food, through to food waste are encouraged to select this option. Students must select eight modules from the following options as specified.

Programme module:

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12232	774	15	Food Security and Globalised Agriculture	Both
13359	771	15	Food Systems Transitions	Both
58718	771	15	Sustainable Development	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both

In addition to the four compulsory modules, four core modules must be selected from the options described below.

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
11490	772	15	Biodiversity and Ecosystem Services	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
13356	771	15	Comparative Study in Sustainable Living	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
13355	771	15	Development Theory and Practice	Both
11188	776	15	Ecological Design for Community Building	Both
13354	771	15	Economy of Sustainable Transitions	Both
11489	772	15	Facilitation for Sustainability Transitions	Both
11195	773	15	Governance Globalisation and Civil Society	Both
12230	771	15	Introduction to Development Planning	Both
11491	773	15	Leadership and Environmental Ethics	Both
12531	771	15	Renewable Energy Financing	Both
11651	771	15	Renewable Energy Policy	Both
11199	775	15	Sustainable Cities	Both
60763	774	15	Sustainable Enterprise	Both
12530	771	15	System Dynamics Modelling	Both

Choice of core modules presented by departments in the Engineering Faculty (a maximum of two may be selected):

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
11294	747	15	Introduction to Solar Energy	Both
64890	714	15	Renewable Energy Systems	1

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.

Programme module

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
11188	776	15	Ecological Design for Community Building	Both
12531	771	15	Renewable Energy Financing	Both
11651	771	15	Renewable Energy Policy	Both
64890	714	15	Renewable Energy Systems	1
58718	771	15	Sustainable Development	Both

In addition to the five compulsory modules, three core modules must be selected from the options described below.

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
11490	772	15	Biodiversity and Ecosystem Services	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
13356	771	15	Comparative Study in Sustainable Living	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both
13355	771	15	Development Theory and Practice	Both
13354	771	15	Economy of Sustainable Transitions	Both
11489	772	15	Facilitation for Sustainability Transitions	Both
12232	774	15	Food Security and Globalised Agriculture	Both
13359	771	15	Food Systems Transitions	Both
11195	773	15	Governance Globalisation and Civil Society	Both

12230	771	15	Introduction to Development Planning	Both
11491	773	15	Leadership and Environmental Ethics	Both
60763	774	15	Sustainable Enterprise	Both
12530	771	15	System Dynamics Modelling	Both
12231	774	15	Systems and Technologies for Sustainable Agriculture	Both

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

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
11294	747	15	Introduction to Solar Energy	Both

Option 5: Political Economy of Development

The establishment of the National Planning Commission (NPC) and our research on emerging trends across a number of rapidly growing developing countries point to the need for a field of study that serves students interested in the relationship between economic growth, state-driven economic planning processes and sustainability.

Programme module

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
11198	775	15	Applied Economics	Both
13355	771	15	Development Theory and Practice	Both
11195	773	15	Governance Globalisation and Civil Society	Both
58718	771	15	Sustainable Development	Both

In addition to the four compulsory modules, four core modules must be selected from the options described below.

Core modules presented by the School of Public Leadership:

Code	Module	Credits	Module Name	Semester
11490	772	15	Biodiversity and Ecosystem Services	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
13356	771	15	Comparative Study in Sustainable Living	Both
13357	771	15	Comparative study of Sustainable Food Systems	Both
11190	772	15	Complexity Theory and Systems Thinking	Both
55492	771	15	Development Planning and Environmental Analysis	Both
11182	772	15	Development Planning Systems Law and Policy	Both

11188	776	15	Ecological Design for Community Building	Both
13354	771	15	Economy of Sustainable Transitions	Both
11489	772	15	Facilitation for Sustainability Transitions	Both
13359	771	15	Food Systems Transitions	Both
12230	771	15	Introduction to Development Planning	Both
11491	773	15	Leadership and Environmental Ethics	Both
12531	771	15	Renewable Energy Financing	Both
11651	771	15	Renewable Energy Policy	Both
11199	775	15	Sustainable Cities	Both
60763	774	15	Sustainable Enterprise	Both
12530	771	15	System Dynamics Modelling	Both

Choice of core modules presented by departments in the Engineering Faculty (a maximum of two modules may be selected):

Code	Module	Credits	Module Name	Semester
64904	744	15	Bio-Energy	2
11294	747	15	Introduction to Solar Energy	Both
64890	714	15	Renewable Energy Systems	1

After completion of the Postgraduate Diploma in Sustainable Development, the research component of the MPhil must have a renewal and sustainability 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;
- group 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 Postgraduate Diploma in 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 any given year should be received before the end of August of the previous year unless the programme coordinator allows a student to apply later.

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@spl.sun.ac.za.

2. Honours programmes

2.1 BComHons

2.1.1 BComHons (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 BCom (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	BComHons (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	Research Assignment: Actuarial Science	Both

Elective modules (at least 12 credits):

Code	Module	Credits	Module Name	Semester
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	2
65250	718	12	Stochastic Simulation	1
10636	746	12	Survival analysis	2
10751	747	12	Time series analysis B	2

Students may, in addition to (i.e. not instead of) the above, also choose to take the following module:

Code	Module	Credits	Module Name	Semester
10371	773	6	Communications (A302)	2

2.1.2 BComHons (Agricultural Economics)

Credits

A minimum of 120 credits.

Programme module:

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
15504	781	30	Research assignment: 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	Both
15504	775	20	Agricultural production and resource management	Both
15504	784	16	Environmental policy	Both
15504	771	20	Farm management	Both
15504	783	16	Foundations of Agricultural Economics: an institutional approach	Both
15504	776	20	International trade and marketing	Both
15504	782	16	National and international market analysis	Both
15504	774	20	Resource and environmental economics	Both
15504	780	20	Rural development	Both
15504	772	20	Topical issues in agricultural policy	Both
15504	773	20	Wine marketing	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.

2.1.3 BComHons (Business Management)

Credits

A minimum of 120 credits.

Specific admission requirements

A BA, BCom 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 graduated 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 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	BComHons (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 MCom 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	2
11151	742	18	Advanced Strategic Management	1
11156	748	9	Business-to-Business Marketing *	2
65226	711	18	Corporate Venturing	2
11148	750	9	Electronical Marketing Channels	2
11141	711	18	Financial Derivative Instruments	1
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11155	744	18	International Business	2
59595	713	18	International Marketing	1
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	1
65218	711	18	Marketing Metrics *	Both
11144	745	18	Portfolio Management	2
65234	711	18	Organisational Diagnosis and 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	1

* Module not presented in 2016;

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 by the last day of October of the previous year.

Programme start date

One week before the official commencement of lectures.

2.1.4 BComHons (Business Management: Specialisation 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
51047	713	18	Financial Management	1
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for MCom Business Management 879.)	Both
43311	716	18	Short-Term Insurance	1
11268	771	18	Value-based Financial Management	1

Elective modules (36 credits):

Code	Module	Credits	Module Name	Semester
65181	711	9	Advanced Entrepreneurship	2
11149	741	18	Advanced Marketing Management	2
11151	742	18	Advanced Strategic Management	1
11156	748	9	Business-to-Business Marketing	2
65226	711	18	Corporate Venturing	2
11148	750	9	Electronical Marketing Channels	2
11141	711	18	Financial Derivative Instruments	1
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11147	717	9	Fixed Interest Securities	2
11155	744	18	International Business	2
59595	713	18	International Marketing	1
65196	711	18	Managing Innovation and Breakthrough Ideas	1
10425	751	9	Marketing Channels	Both
62138	712	18	Marketing Communication	2
65218	711	18	Marketing Metrics	Both

10399	747	18	Marketing Research	1
65234	711	18	Organisational Diagnosis and Mentoring	2
11144	745	18	Portfolio Management	2
11153	711	18	Product and Brand Management	Both
44024	746	18	Property Investment and Finance	1
11154	718	18	South African Management Issues	2

* Module not presented in 2016;

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.

2.1.5 BComHons (Business Management: Specialisation 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
11149	741	18	Advanced Marketing Management	2
62138	712	18	Marketing Communication	2
10399	747	18	Marketing Research	1
12952	743	30	Research Assignment: Business Management (This module is a prerequisite for MCom Business Management 879.)	Both

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
11148	750	9	Electronical Marketing Channels	2
11141	711	18	Financial Derivative Instruments	1
51047	713	18	Financial Management	1

11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11155	744	18	International Business	2
59595	713	18	International Marketing	1
65196	711	18	Managing Innovation and Breakthrough Ideas	1
10425	751	9	Marketing Channels *	Both
65218	711	18	Marketing Metrics *	Both
65234	711	18	Organisational Diagnosis and Mentoring	2
11144	745	18	Portfolio Management	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	1

* Module not presented in 2016;

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

Elective modules (36 credits):

Code	Module	Credits	Module Name	Semester
65181	711	9	Advanced Entrepreneurship	2
11149	741	18	Advanced Marketing Management	2
11156	748	9	Business-to-Business Marketing *	2
11148	750	9	Electronical Marketing Channels	2
11141	711	18	Financial Derivative Instruments	1
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11155	744	18	International Business	2
59595	713	18	International Marketing	1
10425	751	9	Marketing Channels *	Both
62138	712	18	Marketing Communication	2
65218	711	18	Marketing Metrics *	Both
10399	747	18	Marketing Research	1
65234	711	18	Organisational Diagnosis and Mentoring *	2
11144	745	18	Portfolio Management	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	1

* Module not presented in 2016;

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 BComHons (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 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	BComHons (Economics)	Both

Pure Economics

Compulsory modules:

Code	Module	Credits	Module Name	Semester
10541	771	12	Introductory Econometrics	1
10595	771	12	Macroeconomics	2
10760	771	14	Mathematical Economics	1
10605	771	12	Microeconomics	1
11216	771	30	Research Assignment: Economics	Both

Elective modules:

At least four elective modules (40 or 44 or 50 or 54 credits) must be taken. Not all the modules are necessarily presented every year.

Code	Module	Credits	Module Name	Semester
11267	872	20	Advanced Cross-section Econometrics *,**	2
12528	872	20	Advanced Time Series Econometrics *,**	2
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
52000	771	14	Capita Selecta: Economics	2
10436	771	10	Economic History	1
10432	771	10	Economics of Education I	1
10434	771	10	Economics of Technological Change **	2
10635	771	10	Development Economics	1
59617	771	10	Environmental Economics	2
12228	771	10	Financial Economics	2
11263	771	10	Industrial Organisation **	2
64041	771	10	Institutional Economics **	2
10554	771	10	International Finance	1
10555	771	10	International Trade Theory and Policy	1
51861	771	10	Labour Economics **	2
64033	771	10	Monetary Economics	2
11143	771	10	Public Economics	2

* Selection of students takes place.

**As a rule these modules are only presented every second year. Students need to enquire as to which modules will be presented in a specific year.

Financial Economics

Compulsory modules:

Code	Module	Credits	Module Name	Semester
10541	771	12	Introductory Econometrics	1
10554	771	10	International Finance	1
10595	771	12	Macroeconomics	2
10760	771	14	Mathematical Economics	1
10605	771	12	Microeconomics	1
64033	771	10	Monetary Economics	2
11143	771	10	Public Economics	2
11216	771	30	Research Assignment: Economics	Both

Elective modules:

Code	Module	Credits	Module Name	Semester
11141	711	18	Financial Derivative Instruments * or	1
12228	771	10	Financial Economics or	2
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 early January.

2.1.8 BComHons (Economics and Mathematical Statistics)

Credits

A minimum of 164 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 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 54 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 42 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 the programme outline below.

Programme module:

Code	Module	Credits	Module Name	Semester
56928	779	164	Honours programme in Economics and Mathematical Statistics (779)	Both

Compulsory modules (98 or 110 credits):

Code	Module	Credits	Module Name	Semester
11267	872	20	Advanced Cross-section Econometrics * or	2
12528	872	20	Advanced Time Series Econometrics *	2
10430	871	20	Econometrics	1
10595	771	12	Macroeconomics	2
10605	771	12	Microeconomics	1
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
11217	772	42	Research Assignment: Economics and Mathematical Statistics (statistical application on economic data)	Both
65250	718	12	Stochastic Simulation	1

* As a rule these modules are only presented every second year. Students need to enquire as to which modules will be presented in a specific year.

Elective modules in Economics:

At least 10 credits and at most 40 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
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
10635	771	10	Development Economics	1
10436	771	10	Economic History	1
10432	771	10	Economics of Education I	1
10434	771	10	Economics of Technological Change *	2
59617	771	10	Environmental Economics	2
12228	771	10	Financial Economics	2

11263	771	10	Industrial Organisation *	2
64041	771	10	Institutional Economics *	2
10554	771	10	International Finance	1
10555	771	10	International Trade Theory and Policy	1
51861	771	10	Labour Economics *	2
64033	771	10	Monetary Economics	2
11143	771	10	Public Economics	2

* As a rule these modules are only presented every second year. Students need to enquire as to which modules will be presented in a specific year.

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

* 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

Early January.

2.1.9 BComHons (Financial Analysis)

Credits

A minimum of 120 credits.

Specific admission requirements

A BCom (Management Sciences) or BCom 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 332.

All prospective postgraduate students and in particular students who graduated 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 BComHons (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	BComHons (Financial Analysis)	Both

Compulsory modules

Code	Module	Credits	Module Name	Semester
11141	711	18	Financial Derivative Instruments	1
51047	713	18	Financial Management	1
11147	717	9	Fixed Interest Securities	2
12234	717	9	Fix Interest Rate Security Portfolio Management	2
11144	745	18	Portfolio Management	2
44024	746	18	Property Investment and Finance	1
12951	743	30	Research Assignment: Financial Analysis	Both

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 at the end of October of the previous year.

Programme start date
One week before the official commencement of lectures.

2.1.10 BComHons (Financial Risk Management)

Credits
A minimum of 120 credits.

Specific admission requirements
A BCom 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	BComHons (Financial Risk management)	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
10459	731	12	Financial Risk Management A	2
10460	761	12	Financial Risk Management B	2
10660	733	12	Portfolio management theory A	2
10661	763	12	Portfolio management theory B	2
11166	734	6	Practical financial modelling	2
11218	793	30	Research Assignment: Financial Risk Management	Both
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.

2.1.11 BComHons (Human Resource Management)

Credits

A total of 120 credits.

Programme description

The BComHons (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 Mathematical Science-/Industrial Psychology building. Nie Bold en kursief

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 BComHons (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 at 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 BComHons (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 BComHons (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 BComHons (Human Resource Management), the following modules offered by the Department of Industrial Psychology are required: Industrial Psychology 114, 152 and 162, Industrial Psychology 214, 224 and 244, Industrial Psychology 314, 324 and 348.

Duration

Full-time BComHons (Human Resource Management): One year.

Presentation

English.

Programme module:

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

Special modules presented:

Code	Module	Credits	Module Name	Semester
13170	721	20	Consumer Psychology: I *	1
13171	751	20	Consumer Psychology: II *	2

* Pass prerequisite Industrial Psychology 224

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12943	773	30	Research Assignment: Human Resource Management	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 commencement of the programme. See the departmental website for further information.

Assessment and examination

A system of continuous assessment is used.

A final mark of 50% is required for each module in order to pass the programme. If a pass mark is not obtained for a specific module, it can be repeated only once.

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 that are 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.

2.1.12 BComHons (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 BCom (Industrial Psychology) (previous programme name BCom (Psych)) and BComHons (Industrial Psychology) (previous programme name BComHons (Psych)) degrees, having completed the approved BPsych 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 BComHons (Industrial Psychology) 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 Mathematical Science/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 BCom (Industrial Psychology) (previous programme name BCom (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 (BComHons (Industrial Psychology)). Alternatively, a BA degree with Psychology and Industrial Psychology up to third-year level is required, or a BCom 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, 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, 332, 352 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 114, 152 and 162, Industrial Psychology 214, 224 and 244, Industrial Psychology 314, 324 and 348.

Duration

Full-time BComHons (Industrial Psychology): 1 year

Presentation

English.

Programme modules:

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

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
10744	771	12	Applied Psychological and Performance Assessment	Both
11344	773	30	Research Assignment: Industrial Psychology	Both
10387	772	12	Labour Relations and Legislation	Both
10403	774	12	Occupational and Career Psychology	Both
12942	775	12	Organisational Psychology: Contemporary Challenges	Both
10665	776	12	Psychometrics: Measure Theory Test Construction and Decision-Making	Both
51764	776	12	Research Methodology	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 commencement of the programme. See the departmental website (http://www.sun.ac.za/industrial_psychology/) for further information.

Assessment and examination

A system of continuous assessment is used.

A final mark of 50% is required for each module in order to pass the programme. If a pass mark is not obtained for a specific module, it can only be repeated once.

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.

2.1.13 BComHons (Information System Management)

Credits

A minimum of 120 credits.

Programme description

The purpose of the programme is two-fold. Firstly, it aims to consolidate and deepen the knowledge and skills of students with Bachelor's degrees in the area of Informatics. In doing so the programme aims to deliver a mature graduate with a holistic understanding of information systems as socio-technical phenomena operating in the context of social collectives. Due to the nature of the content covered in the programme it is envisaged that graduates would be more suited to managerial positions in ISM contexts, as opposed to junior developer/analyst positions. The second purpose of the programme is to introduce students to the various aspects of conducting research in the fields of Informatics, Information Systems, Knowledge Management and others. As part of the programme students are expected to conduct a research assignment (30 credits).

Specific admission requirements

Any Bachelor's degree (NQF Level 7 qualification) in Informatics / Information Systems Management / Computer Science.

For example:

- BCom (Management Sciences) (Focus Area in Information Systems Management)
- BA (Socio-Informatics)

Duration

Twelve months.

Programme module:

Code	Module	Credits	Module Name	Semester
11852	778	120	Information System Management	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
13365	771	30	Advanced Information Systems Theory and Practice	Both
13367	771	30	Computing in Information Systems	Both
13368	771	30	Information and Knowledge in Organisations	Both
13369	771	30	Research Assignment: Information Systems Management	Both

Assessment and examination

Three of the four modules follow a continuous assessment policy in which students will be assessed through multiple tests/projects/assignments based on the nature of the content taught. The research module will be examined through the evaluation of a written report.

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

The programme starts on the first day of the official commencement of lectures.

2.1.14 BComHons (Logistics Management)

Credits

120 credits.

Specific admission requirements

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

Duration

Twelve months (full-time).

Presentation

The 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	BComHons (Logistics Management)	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
11485	722	15	Customer Service and Logistics Interface Management	1
10911	723	15	Introductory forecasting	1
11047	773	30	Research Assignment: Logistics Management	Both
13077	714	15	Supply Management (Inbound)	2
13078	714	15	Supply Management (Outbound)	1

Elective modules (to make up a total of at least 120 credits):

Code	Module	Credits	Module Name	Semester
11571	714	15	Capita Selecta (Logistics Management)	1
11571	744	15	Capita Selecta (Logistics Management)	2
10933	753	15	Forecasting	2
10909	722	15	Introductory optimisation	1
11484	742	15	New Product Design Planning and Logistics Execution	2
11488	722	15	Packaging Logistics Development	1
59145	744	15	Road Transport Management	1
11481	722	15	Supply Chain Forecasting and Planning	2
11483	722	15	Supply Chain Performance Management and Technology Enablem.	2
11482	742	15	Supply Chain Strategy Change Management and Governance	2
13068	744	15	Sustainability and Supply Chain Risk Management	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 on the website www.sun.ac.za/logistics, or contact 021 808 2249.

2.1.15 BComHons (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 Chartered Institute of Management Accountants, with its head office in London, and obtaining the necessary practical experience. The BCom (Management Accounting) and BComHons (Management Accounting) programmes, as offered by this University, are recognised by the Chartered Institute of Management Accountants.

Specific admission requirements

A BCom (Management Accounting) or BCom (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.

Programme module:

Code	Module	Credits	Module Name	Semester
10812	798	180	BComHons (Management Accounting)	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
10496	715	12	Advanced Management Accounting	1
10500	716	16	Advanced Financial Accounting	1
11159	786	30	Research Assignment: Management Accounting	Both
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 second semester. The examination results are supplemented by class tests, presentations 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.

2.1.16 BComHons (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	BComHons (Mathematical Statistics)	Both

Compulsory modules (36 credits):

Code	Module	Credits	Module Name	Semester
13074	723	6	Introduction to C Programming	1
11228	791	30	Research Assignment: Mathematical Statistics	Both
13360	771	12	Statistical Learning Theory	Both

Elective modules (at least 84 credits):

Code	Module	Credits	Module Name	Semester
10507	719	12	Advanced inference A	1
10508	749	12	Advanced inference B	1
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
10569	753	12	Consultation practice	2
58777	741	12	Data mining	2
10440	713	12	Experimental design	1
13361	771	12	Mathematical Statistics for Data Scientists	Both
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
10705	742	12	Sampling techniques	1
10701	716	12	Statistical quality control and -improvement	1
65250	718	12	Stochastic Simulation	1
10636	746	12	Survival analysis	2
10750	717	12	Time series analysis A	2
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.

2.1.17 BComHons (Operations Research)

Specific admission requirements

To be admitted to the BComHons (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	BComHons (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
13079	744	15	Adv Economic and Financial Planning for Transport Projects	2
64009	714	15	Capita Selecta (Operations Research)	1
64009	744	15	Capita Selecta (Operations Research)	2
46744	712	15	Decision Making	1
10905	713	15	Financial investment planning	1
10931	743	15	Game theory	1
10925	742	15	Location of facilities	2
12318	713	15	Metaheuristics	1
11907	786	15	Methods of Operational Research	2
10926	714	20	Scheduling	1

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.

2.1.18 BComHons (Public and Development Management)

Credits

A minimum of 120 credits.

Specific admission requirements

- A BA, BAdmin, BEcon or BCom 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 7 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 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 once per term for each module 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 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	778	120	BAHons (Public and Development Management) and BComHons (Public and Development Management) and BPubAdminHons	Both

All modules are compulsory.

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

2.1.19 BComHons (Quantitative Management)

Specific admission requirements

To be admitted to the BComHons programme, a student must be in possession of the BCom degree, or a bachelor's degree other than a BCom 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	BComHons 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 (to make up a total of at least 120 credits, including the research module):

Code	Module	Credits	Module Name	Semester
13079	744	15	Adv Economic and Financial Planning for Transport Projects	2
12723	712	15	Capita Selecta (Quantitative Management)	1
12723	742	15	Capita Selecta (Quantitative Management)	2
11485	722	15	Customer Service and Logistics Interface	1

			Management	
46744	712	15	Decision Making	1
10905	713	15	Financial investment planning	1
10933	753	15	Forecasting	2
10925	742	15	Location of facilities	2
11484	742	15	New Product Design Planning and Logistics Execution	2
59145	744	15	Road Transport Management	1
11481	722	15	Supply Chain Forecasting and Planning	2
11482	742	15	Supply Chain Strategy Change Management and Governance	2
11483	722	15	Supply Chain Performance Management and Technology Enablem.	2
13077	714	15	Supply Management (Inbound)	2
13078	714	15	Supply Management (Outbound)	1
13068	744	15	Sustainability and Supply Chain Risk Management	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.

2.1.20 BComHons (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	BComHons (Statistics)	Both

Compulsory module (36 credits):

Code	Module	Credits	Module Name	Semester
13074	723	6	Introduction to C Programming	1
11226	792	30	Research Assignment: Statistics	Both

Elective modules (at least 84 credits):

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

2.1.21 BComHons (Transport Economics)

Specific admission requirements

To be admitted to the BComHons programme in Transport Economics, a student must be in possession of the BCom 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 taking Transport Economics 778 must earn at least 120 credits as set out below.

Programme module:

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

Compulsory modules:

Code	Module	Credits	Module Name	Semester
59102	715	15	Competition and Regulation	1
10904	712	15	Economic investment planning	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
13079	744	15	Adv Economic and Financial Planning for Transport Projects	2
11275	742	15	Air Transport Economics	2
64017	714	15	Capita Selecta (Transport Economics)	1
64017	744	15	Capita Selecta (Transport Economics)	2
10933	753	15	Forecasting	2
13076	744	15	International Trade Transport Infrastructure and Logistics	2
10909	722	15	Introductory optimisation	1
59145	744	15	Road Transport Management	1
12995	773	15	Shipping Economics	1

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.

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 BAHons

2.2.1 BAHons (Public Administration)

Credits
A minimum of 120 credits.

Specific admission requirements
- A BA 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 7 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 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 once per term for each module 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	778	120	BAHons (Public and Development Management) and BComHons (Public and Development Management) and BPubAdminHons	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
60674	761	9	Financial Management and Cost Accounting	2
12586	761	9	Governance: Economics	2
12587	761	9	Governance: Politics or	2
11648	761	9	Local Governance	2
60682	761	9	Information and Communication Technology for Management	2
58661	761	9	Leadership and Change Management	2
12529	761	9	Organisation Design	2
59250	761	9	People Management	2
51993	761	9	Project Management	2
12229	761	9	Public Policy Management	2
57398	761	30	Research Assignment: Public and Development Management	Both
58718	761	9	Sustainable Development	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 annually 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

- A BAdmin 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 7 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 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 once per term for each module 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	BAHons (Public and Development Management) and BComHons (Public and Development Management) and BPubAdminHons	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
60674	761	9	Financial Management and Cost Accounting	2
12587	761	9	Governance: Politics or	2
11648	761	9	Local Governance	2
60682	761	9	Information and Communication Technology for Management	2
58661	761	9	Leadership and Change Management	2
12529	761	9	Organisation Design	2
59250	761	9	People Management	2
51993	761	9	Project Management	2
12229	761	9	Public Policy Management	2
57398	761	30	Research Assignment: Public and Development Management	Both
11345	761	30	Research Assignment: Public and Development Management	Both
58718	761	9	Sustainable Development	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 annually 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 traineeship (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 (at an approved educational organisation) aimed at the Assessment of Professional Competence.
- Completion of 20 months' traineeship 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 and Management Accounting 4 each; Taxation and Auditing 3 each.

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 and Management Accounting 4 each; Taxation and Auditing 3 each.

Specific admission requirements for students who obtained degrees at other universities that are equivalent to BAcc or BAccLLB are available on request from the School.

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 Decision Making and Control
- 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 October. The final performance mark is supplemented by class tests that 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. Master's programmes

3.1 MCom

3.1.1 MCom (Actuarial Science)

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.

Thesis option (879) and Coursework option (889)

Specific admission requirements

An Honours degree in Actuarial Science or Mathematical Statistics; and

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.

Please note: 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	MCom (Actuarial Science) Thesis option (879) or	Both
43214	889	180	MCom (Actuarial Science) Coursework option (889)	Both

Compulsory module for the Coursework option:

Code	Module	Credits	Module Name	Semester
11170	895	60	Research Project: Actuarial Science	Both

Compulsory module for the Thesis option:

Code	Module	Credits	Module Name	Semester
11171	896	120	Thesis: Actuarial Science	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

3.1.2 MCom (Agricultural Economics)

Credits

180 credits

Specific admission requirements

To be admitted to the MCom (Agricultural Economics) programme, a student must be in possession of the BComHons (Agricultural Economics) degree or a qualification considered by the Department of Agricultural Economics to be of equal standing.

Duration

Twelve months (full-time Full Thesis option) or twenty four months (part-time Full Thesis option).

Programme content

A student taking Agricultural Economics 878 must take the Full Thesis option that is the result of independent research and must earn at least 180 credits as set out below.

Programme module

Code	Module	Credits	Module Name	Semester
15504	878	180	Master's thesis	Both

Assessment and examination

A minimum of 180 credits, of which 180 credits are obtained from a thesis.

Pass requirements

To pass, a student shall obtain a mark of at least 50% for the thesis.

Enquiries

More information regarding the postgraduate programmes offered by the Department Agricultural Economics is available from www.sun.ac.za/ Agricultural Economics or contact 021 808 4758.

3.1.3 MCom (Business Management)

Credits

180 credits.

Specific admission requirements

BComHons or another honours degree (with Business Management as major).

Note

Information for prospective postgraduate students is available on the Department's website.

Programme content

Thesis (879) option.

Programme module:

Code	Module	Credits	Module Name	Semester
48550	879	180	MCom Business Management Thesis 879 option	Both

All modules are compulsory.

Code	Module	Credits	Module Name	Semester
11239	828	180	Thesis: Business Management	Both

3.1.4 MCom (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 in Auditing as subject area at undergraduate and postgraduate level during previous studies is taken into account during admission.

Duration

Twenty-four months.

Presentation

English or Afrikaans.

Programme content

Control frameworks and risk, internet-centric environments, hardware and software components, project management, computer security, IT operations, e-commerce, packages from an internal control point of view and computer auditing techniques.

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, 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 School of Accountancy as agreed with the student.

Computer Auditing 871 is a pass prerequisite for Research assignment: Computer Auditing 872.

Selection

Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overarching 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.

3.1.5 MCom (Economics)

Credits

180 credits.

Programme outcomes

In the case of the Coursework and Assignment or Thesis option (889):

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.

In the case of the Full Thesis option (879):

A full thesis of 180 credits.

Specific admission requirements

- An honours degree with Economics as major with an average mark of at least 60%.
- Grade 12 Mathematics at least a 5 (60%).

In exceptional circumstances, a student who 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.

In the case of the Coursework and Assignment or Thesis option (889):

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

In the case of the Full Thesis option (879):

Admission is subject to selection with a mark of at least 65% in the Honours research assignment as a selection requirement.

Duration

Twelve months for the Coursework and Assignment or Thesis option (889), and it must be completed within three years. If not, the compulsory modules must be repeated.

A minimum of twelve months for the Full Thesis option (879).

Presentation

English.

Programme content

See the programme outline below.

Programme module:

Code	Module	Credits	Module Name	Semester
12084	889	180	MCom (Economics) Coursework and Assignment or Thesis	Both
12084	879	180	MCom (Economics) Full Thesis	Both

Compulsory modules in the Coursework and Assignment or Thesis option (889):

Code	Module	Credits	Module Name	Semester
11906	871	20	Dynamic Economic Theory	1
10430	871	20	Econometrics	1
10595	871	20	Macroeconomics	2
10760	771	14	Mathematical Economics **	1
10605	871	20	Microeconomics	2
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 40 credits):

If Mathematical Economics 771 is taken, at least 30 elective credits must be taken. If the 90-credit Thesis option is chosen, at least 10 credits must be taken.

All the modules are not necessarily presented every year.

Code	Module	Credits	Module Name	Semester
11267	872	20	Advanced Cross-section Econometrics **, ***	2
10515	871	10	Advanced Development Economics	1
12528	872	20	Advanced Time Series Econometrics **, ***	2
10742	771	10	Applied Macroeconomics I	Both
10743	772	10	Applied Macroeconomics II	Both
11146	871	10	Applied Macroeconomics III	Both
10745	771	10	Applied Microeconomics I	Both
10746	771	10	Applied Microeconomics II	Both
10747	871	10	Applied Microeconomics III	Both
10635	771	10	Development Economics	1
10436	771	10	Economic History	1
10432	771	10	Economics of Education I	1
10433	871	10	Economics of Education II	2
10434	771	10	Economics of Technological Change ***	2
59617	771	10	Environmental Economics **	2
12949	871	10	Financial Econometrics *	2
12228	771	10	Financial Economics	2
11263	771	10	Industrial Organisation ***	2
64041	771	10	Institutional Economics ***	2
10554	771	10	International Finance	1
10555	771	10	International Trade Theory and Policy	1
51861	771	10	Labour Economics ***	2
64033	771	10	Monetary Economics	2
11143	771	10	Public Economics	2

* 60% achievement in the Time Series component of Econometrics 871 is required for admission to this module. Financial Economics 771 or any second-year module in Finance/Investment Management is strongly recommended.

** 60% performance in Econometrics 871 is required for admission to this module.

***As a rule these modules are only presented every second year. Students need to enquire as to which modules will be presented in a specific year.

Compulsory modules in the Full Thesis option (879)

Code	Module	Credits	Module Name	Semester
11235	828	180	Thesis: Economics	Both

Assessment and examination

In the case of the Coursework and Assignment or Thesis option (889):

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.

In the case of the Full Thesis option (879):

A student must submit a thesis resulting from independent research plus supplementary work that may be required by the Department.

Selection

In the case of the Coursework and Assignment or Thesis option (889):

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

In the case of the Coursework and Assignment or Thesis option (889):

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

Programme start date

In the case of the Coursework and Assignment or Thesis option (889):

A three-week intensive Statistics course precedes the formal programme and commences early January.

3.1.6 MCom (Financial Accounting)

Credits

A minimum of 180 credits.

Specific admission requirements

A BComHons 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 School of Accountancy, 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	MAct 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 School of Accountancy 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.

3.1.7 MCom (Financial Risk Management)

Credits

- In the case of the Coursework and Assignment option (889): A minimum of 180 credits.
- In the case of the Coursework and Thesis option (879): 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

BComHons 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	MCom (Financial Risk Management) Coursework and Assignment option (889)	Both
54690	879	180	MCom Financial Risk Management Full Thesis option	Both

In the case of the Coursework and Assignment option (889) the Assignment: Financial Risk Management module is compulsory:

Code	Module	Credits	Module Name	Semester
11218	893	60	Research Assignment: Financial Risk Management	Both

In the case of the Coursework and Thesis option (879) one of the Thesis: Financial Risk Management modules must be selected:

Code	Module	Credits	Module Name	Semester
11237	891	90	Thesis: Financial Risk Management	Both
11237	892	120	Thesis: Financial Risk Management	Both

Select modules to add up to at least 180 credits with the assignment or thesis:

Code	Module	Credits	Module Name	Semester
10501	831	15	Advanced Financial Risk Management A	2
10503	861	15	Advanced Financial Risk Management B	2
10504	835	15	Advanced Financial Risk management software	2
10517	833	15	Advanced portfolio management theory A	2
10518	863	15	Advanced portfolio management theory B	2
10575	834	15	Credit derivative instruments A	2
10576	864	15	Credit derivative instruments B	2
10441	813	15	Extreme value theory A	2
10442	843	15	Extreme value theory B	2
10461	865	15	Financial Risk Management practice	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.

3.1.8 MCom (Human Resource Management)

Credits
180 credits.

Programme description
The Master's programme in Human Resources Management is offered on a full-time basis (889) and a modular basis (899) or offered in a Full Thesis option (879).

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 options (889 and 899) or 180 credits for the Full Thesis option (879).

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

In the case of the full-time Coursework option (889) and modular Coursework option (899):

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.

In the case of the Full Thesis option (879):

A minimum of 180 credits, of which 180 credits are obtained from a thesis.

Pass requirements

To pass, a student shall obtain a mark of at least 50% for the thesis.

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

In the case of the full-time Coursework option (889) and modular Coursework option (899):

Full-time programme: 12 months.

Modular programme: 24 months (of which five weeks during the first year must be set aside to attend compulsory classes on campus).

In the case of the Full Thesis option (879):

Full-time: 12 months.

Part-time: 24 months.

Presentation

English.

Programme content

See programme layout below.

In the case of the Full Thesis option (879):

A student has to submit a thesis that is the result of an independent investigation.

Programme modules:

Code	Module	Credits	Module Name	Semester
48054	889	180	MCom Human Resource Management (Full-time Coursework option 889)	Both
48054	899	180	MCom Human Resource Management (Modular Coursework option 899)	Both
48054	879	180	MCom Human Resource Management (Full Thesis option 879)	Both

All modules are compulsory for the full-time Coursework option (889) and the modular Coursework option (899).

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

Compulsory modules for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11241	828	180	Thesis: Human Resource Management	Both

Assessment and examination

In the case of the full-time Coursework option (889) and modular Coursework option (899):

A system of continuous assessment is used.

A final mark of 50% is required for each module in order to pass the programme. If a pass mark is not obtained for a specific module, it can be repeated only once.

Examination is decentralised and takes place in the various centres.

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 that is 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.

3.1.9 MCom (Industrial Psychology)

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.

Programme description

The Master's programme in Industrial Psychology, MCom (Industrial Psychology) (previous programme name MCom (Psych)) is offered as a full-time coursework programme (the 889 option) as well as a modular coursework programme (the 899 option).

Specific admission requirements

The BComHons (Industrial Psychology) (previous programme name BComHons (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 (MCom (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 MCom (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	MCom (Industrial Psychology) – Coursework option Full-time (889)	Both
10553	899	180	MCom (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	815	12	Intermediate Statistics and Computer Usage	1
10404	845	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

A system of continuous assessment is used.

A final mark of 50% is required for each module in order to pass the programme. If a pass mark is not obtained for a specific module, it can only be repeated once.

Examination is decentralised and takes place in the various centres.

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 that is 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.

3.1.10 MCom (Logistics Management)

Credits

180 credits.

Specific admission requirements

To be admitted to the MCom (Logistics Management) programme, a student must be in possession of the BComHons (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

All modules will be presented in English.

Programme content

A student taking Logistics Management 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.

A student taking Logistics Management 879, must follow the Full Thesis option that is the result of independent research and must earn at least 180 credits as set out below.

Programme modules:

Code	Module	Credits	Module Name	Semester
50407	899	180	MCom Logistics Management Coursework- and Thesis option	Both
50407	879	180	MCom Logistics Management Full Thesis option	Both

For the Coursework and Thesis option (899), the following research module must be chosen:

Code	Module	Credits	Module Name	Semester
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
11571	814	15	Capita Selecta (Logistics Management)	1
11571	844	15	Capita Selecta (Logistics Management)	2

Compulsory modules for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11238	828	180	Thesis: Logistics Management	Both

Assessment and examination

In the case of the Coursework and Thesis option (899):

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. As only a limited number of students can be accommodated in the programme, selection takes place in accordance with the University's 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.

3.1.11 MCom (Management Accounting)

Credits
A minimum of 180 credits.

Specific admission requirements
A BComHons 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 School of Accountancy, 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	120	MCom Management Accounting or MAcc	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 School of Accountancy 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

At the official commencement of classes.

3.1.12 MCom (Mathematical Statistics)

Credits

- *In the case of the Coursework and Assignment option (889):* A minimum of 180 credits. The assignment of 60 credits is compulsory.
- *In the case of the Coursework and Thesis option (879):* 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

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	MCom and MSc in Mathematical Statistics (Coursework plus Assignment option)	Both
22853	879	180	MCom and MSc in Mathematical Statistics (Coursework plus Thesis option)	Both

In the case of the Coursework and Assignment option (889) the Research Assignment: Mathematical Statistics module is compulsory.

Code	Module	Credits	Module Name	Semester
11228	895	60	Research Assignment: Mathematical Statistics	Both

In the case of the Coursework and Thesis option (879) 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 (to make up at least 180 credits together with the assignment or thesis):

Code	Module	Credits	Module Name	Semester
10509	814	15	Advanced multivariate categorical data analysis A	2
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
10524	819	15	Advanced Mathematical Statistics A	1
11173	849	15	Advanced Mathematical Statistics B	2
10523	818	15	Advanced sampling techniques	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	2
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	2
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.

3.1.13 MCom (Operations Research)

Credits

180 credits.

Specific admission requirements

To be admitted to the MCom (Operations Research) programme (Coursework and Thesis option (899) or Full Thesis option (879)) a student must be in possession of a BComHons degree in Operations Research or a qualification considered by the Department of Logistics to be of equal standing.

For information on Operations Research 899, or 879 MSc in Operations Research (coursework and Thesis option or Full Thesis option), consult Part 5 (Faculty of Sciences) of the Calendar.

Programme content

A student who enrols for Operations Research 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.

A student who enrols for Operations Research 879 must follow the Full Thesis option that is the result of independent research and must earn at least 180 credits as set out below.

Programme modules:

Code	Module	Credits	Module Name	Semester
55336	899	180	MCom or MSc (Operations Research) – Coursework and Thesis option or	Both
55336	879	180	MCom or MSc Operations Research – Full Thesis option	Both

For the Coursework and Thesis Option (899) the following must be chosen:

Code	Module	Credits	Module Name	Semester
11243	884	150	Thesis: Operational Research	Both

Elective modules for the Coursework and Thesis option (with the research module for a total of at least 180 credits):

Code	Module	Credits	Module Name	Semester
64009	814	15	Capita Selecta (Operations Research)	1
64009	844	15	Capita Selecta (Operations Research)	2

Compulsory modules for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11243	828	180	Thesis: Operational Research	Both

3.1.14 MCom (Public and Development Management)

Credits

180 credits.

Programme description

In the case of the Coursework and Thesis option (899):

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 study at home and do assignments that are electronically submitted.

In the case of the Full Thesis option (879):

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.

Specific admission requirements

BAHons/BAdminHons/BComHons/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 programmes 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. In the case of the Full Thesis option, the completion and acceptance of a research proposal during the compulsory contact session in January/February is applicable.

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

In the case of the Coursework and Thesis option (899):

The student follows three 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.

In the case of the Full Thesis option (879):

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.

Programme module:

Code	Module	Credits	Module Name	Semester
48003	889	180	MCom, MA in - or MPA in Public and Development Management (Coursework and Thesis option)	Both

Compulsory module(s) for the Coursework and Thesis option (899):

Code	Module	Credits	Module Name	Semester
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 Program 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
60488	861	30	Public Management Law	Both

Compulsory module(s) for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	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). The thesis is 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.

Selection

Due to the limited number of students that can be accommodated annually 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.

3.1.15 MCom (Quantitative Management)

Credits

180 credits.

Specific admission requirements

To be admitted to the MCom (Quantitative Management) programme, a student must be in possession of the BComHons (Quantitative Management) degree or a qualification considered by the Department of Logistics to be of equal standing.

Duration

Twelve months (full-time and Full Thesis options).

Programme content

A student following Quantitative Management 899 must earn at least 180 credits as set out below.

A student following Quantitative Management 879 must follow the Full Thesis option that is the result of independent research and must earn at least 180 credits as set out below.

Programme modules:

Code	Module	Credits	Module Name	Semester
58351	899	180	MCom Quantitative Management Coursework- and Thesis option – 180 Credits	Both
58351	879	180	MCom (Quantitative Management) Full Thesis Option	Both

Compulsory modules for the Coursework and Thesis option (899):

Code	Module	Credits	Module Name	Semester
12972	882	150	Thesis: Quantitative Management	Both

Elective modules (for a total of 180 credits). Elective modules can also be chosen from the BComHons (Quantitative Management) programme.

Code	Module	Credits	Module Name	Semester
12723	812	15	Capita Selecta (Quantitative Management)	1
12723	842	15	Capita Selecta (Quantitative Management)	Both

Compulsory module for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
12972	828	180	Thesis: Quantitative Management	Both

Assessment and examination

In the case of the Coursework and Thesis option (899):

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. As only a limited number of students can be accommodated in the programme, selection takes place in accordance with the University's overall 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.

3.1.16 MCom (Statistics)

Credits

- In the case of the Coursework and Assignment option (889): At least 180 credits. The assignment of 60 credits is compulsory.
- In the case of the Coursework and Thesis option (879): 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	889	180	MCom Statistics Coursework- and Assignment option – 180 Credits	Both
19658	879	180	MCom Statistics Full Thesis option – 180 Credits	Both

In the case of the Coursework and Assignment option (889) the Assignment: Statistics module is compulsory.

Code	Module	Credits	Module Name	Semester
11226	893	60	Research Assignment: Statistics	Both

In the case of the Coursework and Thesis option (879) 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 (to make up at least 180 credits together with the assignment or thesis):

Code	Module	Credits	Module Name	Semester
10509	814	15	Advanced multivariate categorical data analysis A	2
10511	844	15	Advanced multivariate categorical data analysis B	2
11911	823	15	Advanced Regression Technique A	2
11912	853	15	Advanced Regression Technique B	2
10523	818	15	Advanced sampling techniques	2
10521	821	15	Advanced Statistics A	1
10522	851	15	Advanced Statistics B	2
11913	851	15	Applied Extreme Value Theory	2
10694	811	15	Bootstrap and other resampling techniques A	Both
10695	841	15	Bootstrap And Other Resampling Techniques B	2
18130	822	15	Multi-dimensional scaling A	1
11910	852	15	Multi-dimensional scaling 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.

3.1.17 MCom (Taxation)

Credits

A minimum of 180 credits.

Specific admission requirements

A BCom (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 option (879) and 24 months in the case of the Coursework option (889). In the case of the Coursework option (899), the research assignment and publishable article related to Research Assignment: Advanced Taxation 872 must be completed within two years after passing Advanced Taxation 871.

Presentation

Thesis option: English or Afrikaans; Coursework option: Afrikaans and/or English.

Programme content

In the case of the Thesis option 879:

A research project according to the requirements set by the School of Accountancy, 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 and practical presentations as prescribed by the lecturers involved.

A research project of limited scope according to the requirements set by the School of Accountancy, 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	MCom or MAcc Taxation or	Both
18287	889	180	MCom or MAcc Taxation	Both

Compulsory modules 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 School of Accountancy as agreed with the student.

In the case of the Coursework option 889, tests are assessed in accordance with the rules of the School of Accountancy. Examination papers are assessed by internal and external moderators according to the rules of the University. The essays, practical presentations and the research assignment will be assessed according to the requirements set by the School of Accountancy as agreed with the student.

Passing Taxation 871 is a pre-requisite for Research Assignment: Advanced 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.

3.1.18 MCom (Transport Economics)

Credits

180 credits.

Specific admission requirements

To be admitted to the MCom (Transport Economics) programme (Coursework and Thesis option (899) or Full Thesis option (879)), a student must be in possession of a BComHons 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 899 must earn at least 180 credits as set out below.

A student who enrols Transport Economics 879 must follow the Full Thesis option that is the result of independent research and must earn at least 180 credits as set out below.

Programme modules:

Code	Module	Credits	Module Name	Semester
21008	899	180	MCom Transport Economics Coursework- and Thesis 899 option	Both

For the Coursework and Thesis option (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, a total of at least 180 credits):

Code	Module	Credits	Module Name	Semester
64017	814	15	Capita Selecta (Transport Economics)	1
64017	844	15	Capita Selecta (Transport Economics)	2

Elective modules in the BComHons(Transport economics) programme may also be taken.

Compulsory modules for the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11245	828	180	Thesis: Transport Economics	Both

3.2 MAcc

3.2.1 MAcc (Auditing)

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 School of Accountancy, 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 School of Accountancy 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.

3.2.2 MAcc (Financial Accounting)

Credits

A minimum of 180 credits.

Specific admission requirements

The degree BAccHons or Postgraduate Diploma in Accounting (after obtaining a recognised bachelor's degree) of this University or an equivalent qualification of another university, 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 School of Accountancy 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	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 School of Accountancy 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 overarching 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.

3.2.3 MAcc (Management Accounting)

Credits

A minimum of 180 credits.

Specific admission requirements

A BAccHons 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

English or Afrikaans.

Programme content

A thesis which is the result of a research project in accordance with the requirements set by the School of Accountancy, 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	120	MCom Management Accounting or MAcc (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 School of Accountancy 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.

3.2.4 MAcc (Taxation)

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). In the case of the Coursework option (899), the research assignment and publishable article related to Research Assignment: Advanced Taxation 872 must be completed within two years after passing Advanced Taxation 871.

Presentation

Thesis option: English or Afrikaans; Coursework option: English and/or Afrikaans.

Programme content

In the case of the Thesis option (879):

A research project according to the requirements set by the School of Accountancy, 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 and practical presentations as prescribed by the lecturers involved.

A research project of limited scope according to the requirements set by the School of Accountancy, 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	MCom or MAcc Taxation	Both
18287	889	180	MCom or MAcc Taxation	Both

Compulsory modules 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 module 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 and related article publishable in an accredited journal will be assessed according to the requirements set by the School of Accountancy as agreed upon with the student.

In the case of the Coursework option (889), tests are assessed in accordance with the rules of the School of Accountancy. Examination papers are assessed by internal and external moderators according to the rules of the University. The essays, practical presentation and the research assignment will be assessed according to the requirements set by the School of Accountancy, as agreed on with the student.

Passing Taxation 871 is pre-requisite for Research Assignment: Advanced Taxation 872.

Selection

Because only a limited number of students can be accommodated in this programme, selection, in accordance with the University's overarching 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.

3.3 MA in Public and Development Management

3.3.1 MA in Public and Development Management

Credits

A minimum of 180 credits.

Programme description

In the case of the Coursework and Thesis option (889)

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 or per sms with the lecturer. During the remaining time, the students study at home and do assignments that are electronically submitted.

In the case of the Full Thesis option (879)

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.

Specific admission requirements

BAHons/BAdminHons/BComHons/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. In the case of the Full Thesis option, the completion and acceptance of a research proposal during the compulsory contact session in January/February is applicable.

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 the student prefers.

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

In the case of the Coursework and Thesis option (889)

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.

In the case of the Full Thesis option (879)

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.

Programme module:

Code	Module	Credits	Module Name	Semester
48003	889	180	MCom, MA or MPA in Public and Development Management (Coursework and Thesis option)	Both
48003	879	180	MCom, MA or M in Public and Development Management (Full Thesis option) 879	Both

Compulsory module(s) in the case of the Coursework and Thesis option (889):

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 and Thesis option (a minimum of 10 students are required before a module can be presented):

Code	Module	Credits	Module Name	Semester
11269	871	30	Advanced Program and Project Management	Both
11270	871	30	Anti-Corruption Studies	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
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

Compulsory module(s) in the case of the Full Thesis option (879)

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	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).

The thesis is 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.

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 M in Public Administration

3.4.1 M in Public Administration (MPA)

Credits

A minimum of 180 credits. Full Thesis or structured Coursework and Thesis option.

Programme description

In the case of the Coursework and Thesis option (889)

The student follows three 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.

In the case of the Full Thesis option (879)

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.

Specific admission requirements

BAHons/BAdminHons/BComHons/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. In the case of the Full Thesis (879) option, the completion and acceptance of a research proposal during the compulsory contact session in January/February is applicable

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 the student prefers.

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

In the case of the Coursework and Thesis option (889)

The student follows three 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.

In the case of the Full Thesis option (879)

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

Programme module:

Code	Module	Credits	Module Name	Semester
48003	889	180	MCom, MA in - or MPA in Public and Development Management (Coursework and Thesis option)	Both
48003	879	180	MCom, MA or M in Public and Development Management (Full Thesis option) 879	Both

Compulsory module(s) in the case of the Coursework and Thesis option (889):

Code	Module	Credits	Module Name	Semester
11242	861	90	Thesis: Public and Development Management	Both

Elective modules (two) in the case of the Coursework and Thesis option (889) (a minimum of 10 students are required before a module can be presented):

Code	Module	Credits	Module Name	Semester
11269	871	30	Advanced Program and Project Management	Both
11270	871	30	Anti-Corruption Studies	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
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
60488	861	30	Public Management Law	Both

Compulsory module(s) in the case of the Full Thesis option (879):

Code	Module	Credits	Module Name	Semester
11242	828	180	Thesis: Public and Development Management	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).

The thesis is 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.

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 MPhil

3.5.1 MPhil (Development Finance)

Credits

180 credits (120 credits for coursework 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 aim 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 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 in Development Finance:

- 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 with content focused 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 Grade 12 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 in Development Finance is presented as a modular programme over two years. Students attend three 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 assignment

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 and 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 assignment 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.

Programme module:

Code	Module	Credits	Module Name	Semester
58424	879	180	Development Finance	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12925	861	15	Economic Development Perspectives in Africa	Both
12927	861	15	Governance and Ethics	Both
10392	861	15	Issues in Banking and Finance	Both
62170	861	15	Micro Finance	Both
62189	866	15	Project Finance	Both
12924	866	15	Research Methods in Development Finance	Both
57398	861	60	Research Assignment: Development Finance:	Both

Elective modules:

In addition to the core subjects, students have to attend two elective modules (each elective module counts 15 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 assignment (as prescribed by the USB).

3.5.2 MPhil (Environmental Management)

Credits

A minimum of 180 credits.

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 Environmental Management.

Duration

The MPhil can be completed in a minimum of one year. Students will need to reapply for admission in the second year and will be accepted in exceptional cases only.

Programme content

In the case of the Coursework and Thesis option (899)

The MPhil degree in Environmental Management comprises a compulsory module and a thesis that focuses on environmental management.

In the case of the Full Thesis option (879)

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.

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	899	180	MPhil (Environmental Management) 899 Coursework- and Thesis option	Both
55255	879	180	MPhil in Environmental Management (Research) 879 Full Thesis Option	Both

Compulsory modules in the Coursework and Thesis option (899):

Code	Module	Credits	Module Name	Semester
13075	811	30	Collaborative Environmental Governance	1
11247	818	90	Thesis: Environmental Management	1

Elective modules to add up to at least 180 credits with the compulsory modules and the thesis:

Code	Module	Credits	Module Name	Semester
13069	811	30	Community-Based Natural Resources Management	1
13070	811	30	Economic Principles and Tools for Conservation Management	1
13071	811	30	Management of Protected Areas	1

Compulsory module in die Full Thesis option (879):

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 end of October of the previous year unless permission for later application was granted by the programme coordinator.

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.

3.5.3 MPhil (Futures Studies)

Credits

This programme consists out of 180 credits (100 credits for course work and 80 credits for the research assignment).

Programme description

The MPhil (Futures Studies) is presented by the Graduate School of Business in cooperation with the Institute for Futures Research. The programme is presented over a period of two years by way of a blended learning approach (physical and online contact). Students must complete five modules (100 credits) and a research assignment of 80 credits, for a total of 180 credits.

Programme outcomes

The development of creativity and professionalism in the field of futures studies is an important overall objective of the programme. It will therefore require a proactive attitude from students. Students will be encouraged to develop their own models, practical applications and design protocols and to test these in a variety of environments. At present no other university in Africa presents such a programme. The MPhil (Futures Studies) of Stellenbosch University therefore offers candidates a unique opportunity to equip themselves with techniques and methods to react meaningfully to the growing complexity in the organisational environment and world affairs, especially from an African perspective.

Specific admission requirements

The admission requirement is the Postgraduate Diploma in Futures Studies, with an average of at least 65%. Students must attend the prescribed programme at the University for at least two years. All modules must be passed for the degree to be conferred.

Programme content

The programme is composed of five compulsory modules, plus a research assignment. The research assignment is regarded as the culmination and the final manifestation of the learning experience provided by the programme, and it offers students the opportunity to apply the knowledge and abilities that have been developed in the programme to a specific field.

Teaching, discussions and presentations will be conducted in English; however, assignments, tests and examinations may be written in Afrikaans.

The programme is presented through blended learning, students choose between on-campus or online classes.

Programme module:

Code	Module	Credits	Module Name	Semester
51330	889	180	Futures studies	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
13212	874	30	Applied Future Studies	Both
60070	873	10	Demographics	Both
60054	873	20	Qualitative and Quantitative Future Research Methods	Both
60100	875	80	Research Assignment: Future studies	Both
60046	872	30	Scanning the environment	Both
60062	872	10	Technology futures	Both

Assessment and examination

It is expected of students who have been admitted to the MPhil programme to pass the prescribed assessments in all the modules and to submit a satisfactory research assignment.

Application

Applications for any given year must be received before the end of January of that year.

Apply online: http://ifr.applications.usb.ac.za/

3.5.4 MPhil (HIV/Aids Management)

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 that is presented in English. Students attend one compulsory contact session at Stellenbosch University during the year. Students have to complete four modules of 25 credits each and a study project (thesis) of 80 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 in English. A number of compulsory satellite classes on Saturdays will be presented through the course of the year.

Programme content

Students have to 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
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	Research Assignment: HIV/Aids-management	Both
56081	846	25	The Epidemiology and Problem of HIV/Aids	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 / 3006 / 2621

E-mail: pdm@sun.ac.za or bianca@sun.ac.za or ralex@sun.ac.za

Website: http://www.aidscentre.sun.ac.za

3.5.5 MPhil (Management Coaching)

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' work experience in the broad field of Human Resources 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:

Programme modules

Code	Module	Credits	Module Name	Semester
12299	879	180	Management Coaching	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
12306	871	20	Advanced Coaching Approaches	Both
12304	871	20	Business Coaching	Both
12305	871	20	Coaching for Leadership and Organisational Development	Both
12307	872	40	Coaching Practise	Both
12303	871	20	Fundamentals of Coaching	Both
57398	871	60	Research Assignment: Management Coaching	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).

3.5.6 MPhil (Sustainable Development)

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 with a minimum of 65% for each module), whether or not the student has already obtained the diploma.

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 the student prefers 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 and www.schoolofpublicleadership.co.za.

The 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.

The requirements for the research component are as follows:

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

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 chosen from those listed below; or from the MPhil Environmental Management or HonsPA or MPA programmes or from the Master's in Urban and Regional Planning (MURP) or the MPhil in Urban and Regional Science offered by the Centre of Regional and Urban Innovation and Statistical Exploration (CRUISE), which is part of the Geography and Environmental Studies Department under the Faculty of Arts and Social Sciences; with the thesis having a Sustainable Development Planning focus, and with the following electives highly recommended:
- Project Management (SPL)
- Geographic Information Systems in Environmental Analysis and Management (from the MPhil in Environmental Management) (or a similar GIS module)
- Urban Management Processes (CRUISE): 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 Advanced Studies in Sustainable Development.

Code	Module	Credits	Module Name	Semester
55263	871	15	Advanced Project Management	Both
12950	871	15	Advanced Studies in Sustainable Development	Both
13409	871	15	Advanced System Dynamics Modelling	Both
11198	874	15	Applied Economics	Both
11490	872	15	Biodiversity and Ecosystem Services	Both
13357	871	15	Comparative study of Sustainable Food Systems	Both
13356	871	15	Comparative Study in Sustainable Living	Both
11190	871	15	Complexity Theory and Systems Thinking	Both
55492	873	15	Development Planning and Environmental Analysis	Both
11182	872	15	Development Planning Systems Law and Policy	Both
11188	876	15	Ecological Design for Community Building	Both
13354	871	15	Economy of Sustainable Transitions	Both
12232	874	15	Food Security and Globalised Agriculture	Both
13359	871	15	Food Systems Transitions	Both
11195	873	15	Governance Globalisation and Civil Society	Both
12230	871	15	Introduction to Development Planning	Both
11491	873	15	Leadership and Environmental Ethics	Both
51993	871	15	Project Management	Both

12531	871	15	Renewable Energy Financing	2
11651	871	15	Renewable Energy Policy	Both
11273	871	15	Research Dissemination	Both
51764	871	15	Research Methodology	Both
11199	875	15	Sustainable Cities	Both
60763	874	15	Sustainable Enterprise	Both
12530	871	15	System Dynamics Modelling	Both
12231	874	15	Systems and Technologies for Sustainable Agriculture	Both

Modules presented by departments in the Engineering Faculty:

Code	Module	Credits	Module Name	Semester
64904	844	15	Bio-Energy	2
11294	847	15	Introduction to Solar Energy	Both
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

New students are registered during February, but attend a research workshop during November of the previous year and submit their research proposal during January before registration.

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@spl.sun.ac.za

3.6 Master of Business Management and Administration (Bellville Park Campus)

Credits

This degree is presented at NQF level 9 (213 credits).

Programme description

This internationally accredited Master in Business Management and Administration is presented on a full-time and modular basis at the Bellville Park Campus.

Programme Options

USB's MBA programme has been redesigned to better fulfil the needs of today's students. The previous (longer) MBA, presented up till 2015, has now been restructured into a 213 credit programme on NQF Level 9. All formats of the USB MBA have been shortened significantly and this takes effect from 2016:

- Students can choose between the Full-time MBA over one year or the Modular MBA over two years. The Full-time MBA is presented in English and starts in January. The Modular MBA has three intakes: the Modular MBA (English) starting in January, the Modular MBA (English) starting in February and the Modular MBA (mainly in Afrikaans) starting in February.
- All classes are presented at the USB Campus in the Tyger Valley business district in northern Cape Town.
- Students in the Modular MBA class attend nine blocks of classes of one week each, spread over two years. During a modular block, classes are presented from Monday to Saturday. This format allows people from all over South Africa, other African countries and further afield to attend classes. The Modular MBA has various intakes.
- All classes are supplemented by web-based support. The course content is embodied in a series of lectures and group discussions, blended with course material composed of comprehensive course outlines, text books and journal articles. Students have to be thoroughly prepared for all lectures so as to extract the optimal benefit from contact sessions and collaborative learning.
- Learning activities include lectures, guest lectures by practitioners, tutorials, syndicate groups, practical workplace experience and independent self-study.
- Students are assessed on a flexible assessment basis. The final performance mark is based on, among others, online assessments, class tests, group work, individual and group assignments, class participation as well as presentations. The flexible assessment system implies that there are no supplementary tests or opportunities for the resubmission of assignments to improve grades.

Programme outcomes

The USB MBA aims to give students a clear understanding of how to manage a business responsibly in an African and global multicultural environment. It's about acquiring the intellectual ability to recognise social, economic and other patterns, to argue in a critical fashion, to innovate, to embrace the complexities of today's business and social environment, and to come up with solutions.

USB's MBA is rigorous. It is underpinned by solid quantitative subjects and complemented by interpersonal and leadership skills.

Collaborative learning – where students learn from each other – is a key feature of the USB MBA. What makes this valuable is the unique knowledge and managerial experience that each student brings to the table.

USB believes leaders are developed, not born. Therefore, each MBA student follows USB's Personal Leadership Development Journey (PLDJ) in the Leadership Development Module. This journey focuses on personal leadership, relationship leadership and organisational or strategic leadership which ultimately deliver leadership performance and organisational performance.

The USB approach to personal leadership development is endorsed by a growing body of respected research and evidence. The PLDJ focuses on the process of development and utilises evidential theory and content to stimulate the thinking, learning and development of the individual as a leader. The two dimensions of the USB PLDJ involve students in the following:

- **Content:** Faculty members introduce students to content through lectures, readings, video clips, case studies, class discussions, etc.
- **Process:** Students utilise a range of self-led adult learning and leadership development processes to strengthen and grow them as a leader.

On this journey, students will acquaint themselves with both the theory and practice of leadership through:

- Exploring and enhancing personal authentic leadership
- Narrative learning
- Experiential learning
- Work-based and action learning
- Reflective learning and confronting "knowledge" that is "not true"
- Leveraging strengths and development potential
- Addressing derailment risks.

Specific admission requirements

The MBA degree may be conferred upon students who:

- hold an appropriate four-year Bachelor's degree (NQF Level 8) and at least three years' relevant full-time working experience

or

- An honours degree (NQF Level 8), plus three years' relevant full-time working experience

or

- An appropriate three-year Bachelor's degree (NQF Level 7) and a Postgraduate Diploma (NQF Level 8), and at least three years' relevant working experience
- Successfully took the required selection tests and
- After obtaining the aforementioned qualification for admission, take the prescribed programme at the University and at the end thereof have passed its assessments.

Note: The working experience should preferably be on managerial level.

Further requirements

- Mathematics at NNS (Grade 12) level or equivalent
- A comprehensive CV
- Three essays, showing the candidate's level of motivation and working experience
- An interview with an MBA alumnus

USB introduced a new one-year Postgraduate Diploma in Business Management and Administration (NQF Level 8 with 120 credits) in 2015 to prepare students for the MBA and make them eligible for entry into the MBA.

Programme content

This section covers the compulsory modules and the electives. The compulsory modules include the Research Assignment, which spans the entire MBA, and the International Study module at a foreign business school.

Programme module

Code	Module	Credits	Module Name	Semester
10723	879	213	Business Management and Administration	Both

Compulsory modules:

Code	Module	Credits	Module Name	Semester
13385	815	8	Accounting for Decision Making	Both
13386	815	4	Business Communication Skills	Both
58955	815	8	Business in Society	Both
13379	815	12	Contemporary Decision making	Both
65668	815	12	Corporate Finance	Both
13377	815	8	Digital Enterprise Management	Both
51810	815	8	Economics for Managers	Both
13380	815	8	Human Capital Management	Both
13378	815	8	Integrated Case Studies	Both
60127	815	8	International study tour	Both
13383	815	8	Operational Excellence	Both
13384	815	8	Perspectives of African Frontiers	Both
10812	815	8	Management Accounting	Both
13157	815	8	Managerial Statistics	Both
13381	815	45	Research Methodology and Assignment	Both
59587	815	12	Strategic Management	Both
13387	815	8	Strategic Marketing and Branding	Both
13388	815	16	Value Based Leadership	Both

Elective modules

Students need to select two elective modules of 8 credits each, or one elective module of 16 credits.

The elective modules have been grouped together in specialisation streams. By choosing elective modules from the same speciality, students can acquire areas of expertise in Strategy, Leadership, Finance, Marketing, Developing Markets, Project Management or other management areas.

The elective modules change yearly.

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.

Continuation and termination of studies

Full-time students

Students who have completed the compulsory syllabus towards the end of the 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.

Assessment and recognition of prior learning

Wider access is assured through the Assessment and Recognition of Prior Learning (ARPL) process. According to Stellenbosch University's policy framework for ARPL, a limited number of non-degree students may join the MBA. The number of ARPL candidates may not exceed 10% of an annual intake of a programme.

Stringent assessment criteria are applied to determine whether applicants have developed the necessary generic competencies during their undergraduate learning.

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, it could be expected from candidates to have a selection interview with a representative from the Graduate School of Business.

Application

Go to www.usb.ac.za/apply and complete the online MBA application form. You will be able to complete the form in steps without losing information. The application process is the same for South African and foreign students.

It is advisable to complete the application form as soon as possible in order to register for the programme. The annual closing date for applications for admission is 30 November.

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 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

4.3 Graduate School of Economic and Management Sciences (GEM)

Vision of the Graduate School

Promotion of doctoral studies in Economic and Management Sciences

The Graduate School of Economic and Management Sciences started its operations in 2014 with the aim of strengthening the Faculty's doctoral throughput and enhancing access to doctoral studies in the disciplines that are housed by the Faculty. The Graduate School is managed as a unit in the Dean's office, with the following objectives serving as its foundation:

- To provide a partially structured programme for full-time, residential doctoral studies that is available to all departments and schools of the Faculty.
- To drastically increase the number of doctoral graduates in the Faculty.
- To broaden access to doctoral studies in Economic and Management Sciences.
- To continuously develop effective support structures for doctoral studies that are made available to the Faculty.

The Graduate School essentially plays a supporting role to enhance the chances of candidates to finalise their doctoral studies within the allocated time of three years. The admission requirements for students that are admitted into the Graduate School's doctoral programme are the same as stipulated in 4.1.

Foundation of the Graduate School programme

Funding of full-time residential PhD-candidates

Students that are admitted to the Graduate School programme are provided with generous scholarships, sufficient to support their three-year stay in Stellenbosch. The scholarships are awarded annually after a selection process that identifies excellent candidates and pairs them with suitable academic supervisors.

Partially structured doctoral study

The Graduate School offers several supportive courses during the first year of its doctoral programme to provide the knowledge and skills required to conduct research at doctoral level.

Continuous progress monitoring

Scholarship holders of the Graduate School, in collaboration with their supervisors, report on the progress of their research projects once every trimester. The reporting process is, furthermore, coupled to the payment of the scholarships. Satisfactory progress is expected to ensure scholarship payments.

Continuous support of doctoral candidates

The Graduate School's doctoral students are provided with administrative, logistical and infrastructural support throughout the course of their studies. This support is mediated by the Graduate School Office in collaboration with the existing support structures at Stellenbosch University.

Enqueries

Contact details

Applications are accepted during the application period that is indicated on the website of the Graduate School (http://www.sun.ac.za/english/faculty/economy/gem). Any additional queries can be directed to:

Dr Jaco Franken
Manager: Graduate School of Economic and Management Sciences (GEM)
Room 711, CGW Schumann Building
Stellenbosch University
Tel: +27 21 808 9545
E-mail: franken@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				
114	**12**	**Industrial Psychology**	3L, 1P	**A&E**

Explanation:

10553 is the subject number; it refers to the subject Industrial Psychology.

114(12) (the 12 will normally be written in brackets) is the module code of the module.

Industrial Psychology 114(12) with the module subject: Industrial Psychology

The module code 114(12) has the following meaning:

- First digit: 1 – refers to the year of study in which the module is presented;
- Second digit: 1 – 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: 4 – 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 column (otherwise in brackets) (12) – indicates the credit value of the module. Industrial Psychology 114(12) is therefore offered as a module during the first semester of the first year and a student will acquire twelve 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 column next to the module subject. The following abbreviations are used:

L – lectures lasting 50 minutes each (e.g. 3L, 2L)
P – practical periods lasting 50 minutes each (e.g. 1P, 2P, 3P)

S – seminars lasting 50 minutes (e.g. 1S, 2S)
T – tutorials lasting 50 minutes each (e.g. 1T, 2T)

The teaching load of Industrial Psychology 114(12) amounts to three lectures plus one practical period per week for the duration of the module, i.e. one semester, and classes are presented separately in Afrikaans and English.

In the last column the language specification of each module is indicated. The following language specifications are used:

Type	Code	Displayed in the Calendar as	Description
Parallel medium	A&E	A or E	Afrikaans **(A)** and English **(E)** classes are presented separately. Students select their tuition language of choice at registration.
Interpreting to English	A+i	A+i	Interpreting into English, from Afrikaans instruction.
Interpreting to Afrikaans	E+i	E+i	Interpreting into Afrikaans, from English instruction.
Bilingual	T	T	A combination of Afrikaans and English in the same class. Most of these classes occur when modules of other faculties are taken.

- **Parallel medium [Code: A&E]:** Afrikaans and English classes presented separately. Instruction language is supplied by students at registration.
- **Interpreting [Codes: A+i of E+i]:** Interpreting can take place in Afrikaans or English, depending on the language of tuition. A+i = Class in Afrikaans and interpreting to English; E+i = Class in English and interpreting to Afrikaans.
- **Bilingual [Code: T]:** A combination of Afrikaans and English in the same class.

Please note:

Language options of modules could be adjusted from time to time, taking in consideration the language preferences of the enrolled students and the availability of staff.

Information on language options of modules is available in the Calendar Part 10.

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 Agricultural Economics

15504 Agricultural Economics				
234	**16**	**South African agriculture**	**6L**	**E+i**
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+i**
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* *C Agricultural Economics 234* Home department: AGRICULTURAL ECONOMICS				
262	**8**	**The economics of agricultural resources**	**3L**	**A+i**
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+i**
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**	**E+i**
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 in the South African context**	**3L**	**E+i**
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**	**E+i**
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

55344 Investment Management				
254	**16**	**Introduction to Investment Theory**	3L, 1P	**A+i**
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. *C Business Management 113* *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+i**
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* *PP Statistical Methods 176 with 65% or* *PP Statistics 186 or* *PP Probability Theory and Statistics 114 or 144* Home department: BUSINESS MANAGEMENT				
324	**12**	**Fixed Income Securities**	1.5L, 0.5P	**A+i**
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* *PP Statistical Methods 176 with 65% or* *PP Statistics 186 or* *PP Probability Theory and Statistics 114 or 144* Home department: BUSINESS MANAGEMENT				

344	**12**	**Derived Financial Instruments and Alternative Investments**	1.5L, 0.5P	**A+i**

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
PP Statistical Methods 176 with 65% or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144

Home department: BUSINESS MANAGEMENT

348	**12**	**Real Estate Investment and Financing**	4L	**A+i**

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
PP Statistical Methods 176 with 65% or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144

Home department: BUSINESS MANAGEMENT

354	**12**	**International Investment Environment**	4L, 1P	**A+i**

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. Investment ethics: ethics code and professional standards of the CFA Institute; liability of investment practitioners towards the profession, employers, clients, possible clients and the broad public; reporting of historical investment returns; responsible risk taking; risk control.

C Investment Management 254
PP Statistical Methods 176 with 65% or
PP Statistics 186 or
PP Probability Theory and Statistics 114 or 144

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 Business Management 113* *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**
Marketing communication, advertising and the marketing process; the consumer audience; marketing communication research; functioning of marketing communication; marketing communication planning and strategy in traditional and digital environments; media; media planning and buying; traditional, new and digital media; planning and execution of creative advertising aspects; integration of the elements of marketing communication. *P Marketing Management 214* Home department: BUSINESS MANAGEMENT				
314	**12**	**Retail Management**	2L	**A&E**
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&E**
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 its measurement; 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&E**
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&E**
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	**E+i**
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				

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. *C Business Management 113* 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. *C Business Management 113* *P Entrepreneurship and Innovation Management 214* Home department: BUSINESS MANAGEMENT				
318	**24**	**Creativity and Innovation Management**	4L	**E+i**
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	**E+i**

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 113, 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.

Subject to continuous assessment

C Financial Management 214

Home department: BUSINESS MANAGEMENT

314	**12**	**Financial Planning and Control**	2L	**A+i**
Standardisation of published financial statements; reclassifying items from financial statements for managerial decision-making; application of financial planning process by means of financial forecasting; calculation of the sustainable growth rate; estimation of an optimal capital structure; the application of free cash flow valuations; the influence of inflation on annual financial statements. *C Financial Management 214, 244 or* *C Investment Management 254* Home department: BUSINESS MANAGEMENT				
332	**12**	**Capital Investments**	2L	**A+i**
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, 244 or* *C Investment Management 254* Home department: BUSINESS MANAGEMENT				
352	**12**	**Financial Management Research**	2L	**A+i**
Identification and formulation of financial management problems and/or opportunities; setting financial research objectives; identifying appropriate research designs; conducting secondary and/or primary research; conducting financial data analysis to achieve research objectives. *C Financial Management 214, 244 or* *C Investment Management 254* Home department: BUSINESS MANAGEMENT				
354	**12**	**Mergers and Acquisitions**	2L	**A+i**
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, 244 or* *C Investment Management 254* Home department: BUSINESS MANAGEMENT				

59765 Financial Planning				
214	**16**	**Financial Planning**	4L	**A+i**
Introduction to life insurance; introduction to short-term insurance; introduction to retirement planning; marketing skills; practice management. *C Business Management 113* *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+i**
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 or 285* Home department: 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				

59587 Strategic Management				
344	**12**	**Strategic Management**	1.5L, 0.5P	**A+i**
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	**E+i**
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, globalization, 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	**E+i**
Macroeconomics: economic growth, business cycle, monetary and fiscal policy. Quantitative economics: general data analysis, mathematical and econometric techniques, input/output analysis. Introduction to game theory. *PP Economics 214* *P Economics 244* Home department: ECONOMICS				
348	**24**	**Economics**	4L, 1S	**E+i**
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	**E+i**
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	**E+i**
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 General Language Sciences

Special modules in General Language Science for BCom International Business

13351 Introduction to Intercultural Communication				
312	**12**	**Introduction to Intercultural Communication**	4L	**E**
Fundamentals of linguistic communication, including the general nature of language and communication, and the functions and use of language in various types of discourse; Fundamentals of intercultural (linguistic) communication, including the linguistically relevant components and functions of culture, and potential barriers to intercultural communication; Pragmatic and sociolinguistic aspects of intercultural communication; General and culture-specific patterns in the use of language across cultures, and the management of culture-specific features of discourse in intercultural communication; Mechanics of intercultural communication, including the characteristics of/conditions for successful communication, the characteristics and causes of failure of intercultural communication in various kinds of linguistic interaction, and strategies for avoiding and repairing failure of intercultural communication. *Continuous assessment* Home department: GENERAL LINGUISTICS				

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, organizational 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	**E+i**
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	**E+i**
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&E**
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				

44776 Industrial Psychology (Special)				
244	**12**	**Industrial Psychology (Special)**	3L	**A&E**
Lectures are attended by BCom (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	**A&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.

Special modules in Information Sciences for BCom and BCom (Management Science) students

11852 Information System Management				
212	**8**	**Organisational Information Systems 1**	2L	**T**
Introduction to information systems in corporate and public organisations. Home department: INFORMATION SCIENCE				
224	**16**	**Introduction to computer programming**	2L, 2P	**T**
Principles of computer programming. Skills development in object-oriented program languages. Home department: INFORMATION SCIENCE				
254	**16**	**Internet Technology and Design**	1L, 3P	**T**
The internet and the world wide web. Architecture of hypertext systems. The design of web sites and portals. Home department: INFORMATION SCIENCE				
262	**8**	**Electronic Business and Government**	1.5L	**T**
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	**T**
Database concepts, models, design and management. Home department: INFORMATION SCIENCE				
334	**18**	**Enterprise architecture**	2L, 3P	**T**
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	**T**
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	**T**
Knowledge technology, knowledge based systems, artificial intelligence and knowledge dynamics in complex organisations. Home department: INFORMATION SCIENCE				

Department of Logistics

58351 Quantitative Management				
214	**16**	**Quantitative Management**	3L, 2T	**A+i**
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+i**
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+i**

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+i**

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

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				
314	**12**	**Logistics Management**	2L	**E+i**
Functional excellence: Major logistics activities related to transport, storage, packaging and handling covered in more detail than introduced in Logistics Management 214 and 244. *Topics to cover:* sourcing strategies and plans, total cost analysis, supplier selection and development, supplier collaboration, relationship management, negotiation and contracting, warehousing and materials handling, materials management, master production scheduling, product conversion, production and inventory control, process control & quality management, delivery management, warehousing layout and flow optimization, inventory control, international logistics (global), reverse logistics and its impact, waste management, maritime management, customer service, relationship management. *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 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)* Home department: LOGISTICS				

324	**12**	**Logistics Management**	2L	**E+i**
Integrative excellence: Internal/functional integration as well as external integration with supply chain partners has become a business imperative. Business process integration is a critical enabler. *Topics to cover:* logistics planning and control, inventory planning and management, coordination of supply chains. Monitoring and control of logistics performance, measurement and standards, efficiency and effectiveness and financial performance indicators, client/customer requirements versus achievable logistics performance, review of logistics goals and objectives, risk management, sustainable logistics, logistics and the environment, closed-loop supply chains. *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 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)* Home department: LOGISTICS				
344	**12**	**Logistics Management**	2L, 1P	**A+i**
Logistics analysis: For both functional excellence and integrative excellence, a variety of analytical techniques and enabling technology can be employed to support decisions on the short, medium and longer timeframes. Analytical techniques (descriptive and normative) and enabling technology (transactional vs. analytical information technology) form an integral part of the support decision makers require. *PP Logistics Management 314, 324 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)* Home department: LOGISTICS				
354	**12**	**Logistics Management**	2L	**A+i**
Logistics research: Defining the logistics 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 (if required) and basic statistical tests. *PP Logistics Management 314, 324 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)* Home department: LOGISTICS				

55336 Operations Research				
214	**16**	**Network Optimisation**	3L, 3P	**A+i**
Introduction to network modelling. 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. *Continuous assessment* *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+i**
Modelling by means of linear programming. Geometry of LP, properties of solutions, fundamental theorem of LP, simplex algorithm, big M and two-phase methods, sensitivity analysis, duality and complementary slackness, matrix slackness, special cases of the simplex algorithm (transport, transhipment, assignment and minimum cost flow). Applications using suitable software. *Continuous assessment.* *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+i**
Binary and integer programming (branch-and-bound methods and cutting plane methods), heuristics (*n*-Opt procedures). Applications with respect to assignment problems, colouring problems, covering problems and domination problems, Hamiltonian graphs (the travelling salesman problem). Kitbag problems. Applications using suitable software. *Continuous assessment.* *P Operations Research 214, 244 (No Quantitative Management modules may be taken in combination with Operations Research modules.)* Home department: LOGISTICS				

326	16	**Methods of Operational Research**	3L, 3P	**A+i**
Problem structuring and modelling, preference modelling (utility theory, ranking, relative importance of criteria), pair-wise comparisons of alternatives, determining weights for criteria, sensitivity and robustness of solutions, the AHP. Decision trees. Forecasting. Inventory control (deterministic models). Applications using suitable software *Continuous assessment* *P Operations Research 244 (No Quantitative Management modules may be taken in combination with Operations Research modules.)* Home department: LOGISTICS				
344	**16**	**Optimisation**	3L, 3P	**A+i**
Dynamic programming. Introduction to optimisation and functions in R*n*, unconstrained optimisation (search methods and gradient methods), constrained optimisation (Lagrange multipliers, quadratic programming, separable optimisation). Goal programming. 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+i**
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). Stochastic dynamic programming. Applications using suitable software. *Continuous assessment.* *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				
314	**24**	**Project Management**	3L	**A+i**
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.) Home department: LOGISTICS				

21008 Transport Economics				
214	**16**	**Transport Economics**	3L	**A+i**
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 in South Africa. *PP Economics 114, 144* Home department: LOGISTICS				
244	**16**	**Transport Economics**	3L	**A+i**
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, including the 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+i**
Transport systems analysis and modelling, including transport demand analysis and forecasting of goods and passenger transport requirements. Planning, evaluation and provision of transport infrastructure. Calculation, allocation and recovery of infrastructure cost. Determination of road user and non-road user benefits and costs. *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+i
Government interest in and the regulation of transport operations. Government involvement in transport planning and policy analysis. Modal cost and market structures for shipping, air- and pipeline transport. Transport tariff setting for shipping, air- and pipeline transport. *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				

13350 Introduction to Transport and Logistics Systems				
144	12	Introduction to Transport and Logistics Systems	3L, 1P	A&E
Introduction to the unique purpose of the transport system; the components of the system; the economic significance of the transport system; the organisation and regulation of transport; concepts of demand and supply; and transport from a management perspective. 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				

Department of Mathematical Sciences (Mathematics, Applied Mathematics, Computer Science)

18139 Computer Science				
114	16	Introductory Computer Science	3L, 3P	A+i
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	**A+i**

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	**A+i**

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

314	**16**	**Concurrency**	3L, 3P	**A+i**

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

315	**16**	**Machine Learning**	3L, 3T	**A+i**

Dimension reduction techniques; machine-learning techniques based on maximum-likelihood, maximum-posterior and expectation-maximization estimates; modelling using logistic regression, Gaussian mixtures and hidden Markov models.

Continuous assessment

PP Computer Science 144 or
P Computer Science E 214
P Mathematical Statistics 244 or
P Systems and Signals 344

Home department: COMPUTER SCIENCE

334	**16**	**Databases and Web Centric Programming**	3L, 3P	**E+i**

Introduction to relational databases. Mapping relational model onto object model. Implementing a database application in the context of the web. Web services.

Server-side scalability. Virtualization. Cloud Computing.

Continuous assessment

P Computer Science 214, 244

For programmes in Engineering:
P Computer Science E 214
P Computer Systems 245

Home department: COMPUTER SCIENCE

344	**16**	**Program Design**	3L, 3P	**E+i**

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	**E+i**

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

364	16	Computer Vision	3L, 3P	T
Projective geometry and transformations of 2D and 3D. Camera models, the projective camera. Computation of the camera matrix using a calibration object. Removal of radial distortion. Epipolar geometry, the fundamental and essential matrices. Camera rectification and 3D reconstruction methods. *Continuous assessment* *P Computer Science 214 or* *P Computer Science E 214* *P Applied Mathematics 214 or* *P Applied Mathematics B 242* Home department: COMPUTER SCIENCE				

21539 Mathematics				
114	**16**	**Calculus**	5L, 2T	**A&E**
Any student who wishes to take this module must have achieved a mark of at least 6 (or 70%) for Mathematics in the NSC or the IEB's school-leaving certificate. 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; polar co-ordinates; partial derivatives; introduction to matrices and determinants. *P Mathematics 114* Home department: MATHEMATICS				

214	**16**	**Advanced Calculus and Linear Algebra**	4L, 2T	**A&E**

Advanced Calculus: Functions of more than one real variable, multiple integrals, line integrals, surface integrals, the divergence theorem.

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**	4L, 2T	**A&E**

Analysis: Improper integrals, sequences and series, power series and Taylor's theorem, second-order linear differential equations.

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+i**

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**	**Complex Analysis**	3L, 3T	**E+i**
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				
325	**16**	**Topology**	3L, 3T	**E+i**
Out of the three tutorial periods, one is a scheduled tutorial, and two are for independent work on assignments. This module gives an introduction to topology through its basic concepts: Topological spaces and continuous maps. Applications to analysis will be also covered *Continuous assessment* Home department: MATHEMATICS				
344	**16**	**Discrete Mathematics**	3L, 3T	**E+i**
Discrete Mathematics, or "Concrete Mathematics", as it is called in a famous book, deals with concrete objects that are inherently discrete, 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				
345	**16**	**Logic**	2L, 4T	**E+i**
Out of the four tutorial periods, two are scheduled tutorials and two are for independent work on assignments This module gives an introduction to mathematical logic and formal mathematical languages, with a special emphasis on those languages that can be used for foundation of mathematics. *Continuous assessment* *PP Mathematics 114, 144 or equivalent modules* Home department: MATHEMATICS				

365	16	Real Analysis	3L, 3T	E+i
Some concepts and results from real analysis will be covered. *PP Mathematics 214, 244* Home department: MATHEMATICS				

56847 Financial Mathematics				
378	32	Financial Mathematics	3L, 3T	E+i
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				

Department of Mercantile Law

35998 Mercantile Law (Commerce)				
253	8	Mercantile Law (Commerce)	3L, 1T	A&E
Basic principles of entrepreneurial law. *PP Mercantile Law (Acc) 193* Home department: MERCANTILE LAW				
285	32	Mercantile Law (Commerce)	3L, 1T	A&E
Sources of South African Law and fundamental concepts; law of obligations (law of contracts; law of delict; agency); law of insolvency; employment law; basic principles of entrepreneurial law. *Notes* Students who have passed Mercantile Law (Acc) 193 do not register for Mercantile Law (Commerce) 285, but register for Mercantile Law (Commerce) 253. Students who have failed Mercantile Law (Commerce) 283 or Mercantile Law (Commerce) 284 will register for Mercantile Law (Commerce) 285 from 2016. Home department: MERCANTILE LAW				

Special modules in Mercantile Law for BCom International Studies

13352 Legal Aspects of International Transactions				
312	**12**	**Legal Aspects of International Transactions**	2L	**E**
This module provides a general introduction to law for commerce students and explains how the law regulates international business transactions. Emphasis is placed on the risks of doing business internationally and how the law can address these risks. A capita selecta of legal aspects pertaining to international business transactions will be discussed, such as the law relating to the international sale of goods, methods of payment in international transactions; international carriage of goods and insurance; international partnership, agency and distributorship agreements; intellectual property law; legal aspects of e-commerce; competition law; dispute resolution; white collar crime; environmental protection; as well as labour and human rights implications of international business transactions. Home department: MERCANTILE LAW				

Special Modules in Mercantile Law for BAcc Students

58432 Mercantile Law (Acc)				
193	**24**	**Mercantile Law (Accounting)**	3L, 1T	**A&E**
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&E**
The legal principles regarding companies, close corporations, trusts and partnerships. *P Mercantile Law (Acc) 193* Home department: MERCANTILE LAW				

Department of Philosophy

Special modules in Philosophy for BAcc and BCom Man Sciences students

59277 Business Ethics				
214	**8**	**Business Ethics**	2L	**A&E**
Introduction to ethics, applied ethics, and ethical decision-making; macro-ethical issues in business ethics; contemporary approaches to corporate social responsibility and corporate governance; professionalism and ethics in accountancy; the nature and functioning of professional codes; the ethical challenges associated with the accountancy functions (i.e. auditing, management and tax); management and organisational ethics; writing skills, research and case study analysis in applied ethics. *Note:* Business Ethics 214 is an exclusion subject with Business Ethics 314. Home department: PHILOSOPHY				
314	**12**	**Business Ethics**	2L	**E+i**
Introduction to ethics and applied ethics; philosophical approaches to ethics; macro-ethical issues in business ethics; management and organisational ethics; contemporary approaches to corporate social responsibility and corporate governance; the nature and functioning of codes of conduct in organisations; writing skills, research and case study analysis in applied ethics. *Note:* Business Ethics 314 is an exclusion subject with Business Ethics 214. Home department: PHILOSOPHY				

School of Accountancy

18287 Taxation				
298	**24**	**Taxation**	2L	**A&E**
The taxation structure of the Republic of South Africa with reference to the Income Tax Act; determining the normal tax and withholding tax liability of individuals and the calculation of employees' tax. *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: SCHOOL OF ACCOUNTANCY				

388	**24**	**Taxation**	2L	**A&E**
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: SCHOOL OF ACCOUNTANCY				
399	**36**	**Taxation**	3L	**A&E**
Tax legislation in the Republic of South Africa, with specific reference to companies, value added tax, capital gains tax and provisional tax and the tax of individuals. *PP Financial Accounting 278* *P Taxation 298* Home department: SCHOOL OF ACCOUNTANCY				

10812 Management Accounting				
278	**30**	**Management Accounting**	4L	**A&E**
Concepts of strategy and business risk. Time value of money; risk and return; valuations; working capital management; financing decision; cost of capital and investment decision. Cost elements and concepts; cost assignment and behaviour; costing systems including job costing, standard costing and process costing; joint and by-products; budgets; and absorption and variable costing. *PP Financial Accounting 178 or 188 (In the latter case the internal Financial Accounting test required by the Department must be completed successfully.)* *C Financial Accounting 278 or 288* Home department: SCHOOL OF ACCOUNTANCY				
288	**24**	**Management Accounting**	3L	**A&E**
Introduction to strategy. Time value of money; risk and return; valuation of preference shares and bonds; working capital management; financing decision and cost of capital. Fundamental concepts of cost and management accounting; cost assignment and behaviour; job costing; standard costing; process costing; joint and by-products; budgeting and control. *PP Financial Accounting 188 or* *P Financial Accounting 178* Home department: SCHOOL OF ACCOUNTANCY				

378	**36**	**Management Accounting**	3L	**A&E**
Valuations and takeovers; analysis of financial information in the integrated report; dividend policy; businesses in financial stress and financial risk. Standard costing; optimisation; performance management; cost-volume-profit analysis; risk and uncertainty; activity based costing; relevant information and transfer pricing. *PP Financial Accounting 278* *P Management Accounting 278* Home department: SCHOOL OF ACCOUNTANCY				
388	**48**	**Management Accounting**	4L	**A&E**
Valuations of businesses; takeovers, analysis of financial information in the integrated report; division of profit and financial risk. Budgeting and control; standard costing; absorption and variable costing; cost-volume-profit analysis; risk and uncertainty; activity based costing; relevant information; throughput accounting and cost management techniques. *PP Financial Accounting 278 or 288* *P Management Accounting 278 or 288* Home department: SCHOOL OF ACCOUNTANCY				

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: SCHOOL OF ACCOUNTANCY				
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: SCHOOL OF ACCOUNTANCY				

278	**32**	**Financial Accounting**	4L	**A&E**
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: SCHOOL OF ACCOUNTANCY				
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: SCHOOL OF ACCOUNTANCY				
379	**48**	**Financial Accounting**	4L	**A&E**
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: SCHOOL OF ACCOUNTANCY				
389	**48**	**Financial Accounting**	4L	**A&E**
Advanced aspects of international financial reporting standards; continuation of group statements and consolidated cash flow statements. *PP Financial Accounting 278 or 288 (No third-year Logistic Management modules may be taken in combination with Financial Accounting 389.)* Home department: SCHOOL OF ACCOUNTANCY				

48062 Information Systems				
112	**6**	**Information systems in a business environment**	1L, 1P	**A&E**
Practical ability to use information systems technology in a business environment. Understanding and ability to use operating systems, word processors, email, Internet, presentation software and spreadsheets. *Note* Information Systems 188 and Information Systems 112 may not be presented together for degree purposes. Home department: SCHOOL OF ACCOUNTANCY				

152	**6**	**Business systems**	2L	**A&E**
Key concepts of supply chain management, operational and quality management. Ethics and dealing with ethical conflicts in a business environment. Home department: SCHOOL OF ACCOUNTANCY				
188	**24**	**Information systems for accountants**	3L, 1.5P	**A&E**
This module may only be taken for BAcc, BCom (Financial Accounting) and BCom (Management Accounting). Basic understanding of information technology concepts for business systems (general systems theory; infrastructure; networks and electronic communication, introduction to the development, management and control of information systems. The practical use of general application software and a computerised accounting information system. *Note* Information Systems 188 and Information Systems 112 may not be presented together for degree purposes. Home department: SCHOOL OF ACCOUNTANCY				
214	**6**	**Integrated Information Systems**	2L	**A&E**
The course uses a case study methodology to develop a practical understanding of business model building blocks and integrated reporting. This course has been designed to meet the pervasive skills required by future Chartered Accountants (as per the South African Institute of Chartered Accountants) and Chartered Management Accountants (as per the Chartered Institute of Management Accountants) and focus on integration with Management Accounting. *C Management Accounting 278 or 288* Home department: SCHOOL OF ACCOUNTANCY				
242	**6**	**Integrated Accounting Information Systems**	2L	**A&E**
The practical implementation and working of the controls in a computerised accounting information system. This course has been designed to meet the pervasive skills required by future Chartered Accountants (as per the South African Institute of Chartered Accountants) and Chartered Management Accountants (as per the Chartered Institute of Management Accountants) and focus on integration with Financial Accounting, Auditing and Taxation. *P Financial Accounting 178 or* *P Information Systems 188* Home department: SCHOOL OF ACCOUNTANCY				

312	12	Information Systems	1L, 2P	A&E
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: SCHOOL OF ACCOUNTANCY				

17426 Auditing				
288	24	Auditing	2.5L	A&E
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: SCHOOL OF ACCOUNTANCY				
378	24	Auditing	2.5L	A&E
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: SCHOOL OF ACCOUNTANCY				
388	24	Auditing	2.5L	A&E
(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: SCHOOL OF ACCOUNTANCY				

School of Public Leadership

48003 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	**E+i**
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	**A+i**
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	**E+i**

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	**A+i**

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	**A+i**

- 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	**E+i**

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	**A+i**

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**	**Distribution Theory and Introduction to Statistical Inference**	4L, 2P	**A+i**

Further continuous distributions: gamma- and beta distributions. Moments and moment-generating functions for discrete and continuous distributions. Determining 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**	**Statistical Intervention Sampling theory and Regression**	4L, 2P	**A+i**

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+i**

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+i**

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+i**

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+i**

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, non-stationarity of time series. Applications of time series.

P Mathematical Statistics 318

Home department: STATISTICS AND ACTUARIAL SCIENCE

19658 Statistics

Note

To major in Statistics for a BCom degree, the modules Statistics 186 or Statistical Methods 176, Statistics 214, 224, 244 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+i**

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 Statistics 224 (Students who have passed Mathematics 114 or 144 are exempt from this.)

Home department: STATISTICS AND ACTUARIAL SCIENCE

224	16	**Statistical Theory and Practice**	3L, 2T	**A+i**

Handling data sets: Data vectors and data matrices; different types of data and its influence on the choice of applicable statistical techniques; manipulations with data vectors and data matrices; calculating simple statistical measures with the use of vectors and matrices; the *R* programming language; importing data into *R*; vector and matrix operations in *R* to calculate statistical measures; determinant and eigen-values of a square matrix with applications in statistics.

Moment-generating functions and their applications: Moments of a random variable; calculation and interpretation of discrete and continuous moments with summation and integration; the exponential function and some of its basic properties; the moment generating function; moment generating functions of important distributions; obtaining moments from moment generating functions using differentiation and a series expansion; graphical displays of probability distributions in *R* (the *denstrip* package).

Transformations: The logarithmic and square root transformations and their usage and effect in the analysis of data.

Optimisation in statistics: Obtaining the maximum and minimum of a function of a single variable using differentiation; the least squares method; the maximum likelihood method (in general); Lagrange multipliers.

PP Statistical Methods 176 with a final mark of at least 60 or
PP Statistics 186

Home department: STATISTICS AND ACTUARIAL SCIENCE

244	16	**Statistical Inference**	3L, 2T	**A+i**

Sampling techniques: Simple random sampling; Stratified sampling; Systematic sampling; Cluster sampling; Probability proportional to size sampling.

Properties of estimators: Unbiasedness; Efficiency; Consistency; Sufficiency; Robustness.

Estimation methods: Maximum likelihood; Method of moments.

Simple linear regression analysis: The simple linear regression model; Method of least squares estimation; Inference on the model parameters and the correlation coefficient; Residual analysis; Prediction intervals and confidence intervals.

Multiple linear regression analysis: The multiple linear regression model; Residual analysis; Inference on the parameters of the model; Regression models with dummy variables and interaction terms; Polynomial regression; Transformations; Collinearity; Variable selection.

Analysis of variance: Completely randomized factorial designs; Block designs.

Non-parametric techniques for analysis of variance: Wilcoxon's rank sum test; The sign test; Wilcoxon's signed-rank test; Kruskal-Wallis test; Friedman's test.

Note

Application of statistical techniques using Microsoft® Excel and STATISTICA is emphasised throughout.

Continuous assessment.

PP Statistics 214 and
P Statistics 224

Home department: STATISTICS AND ACTUARIAL SCIENCE

318	**24**	**Linear and Econometric Models**	4L, 2T	**A+i**

Regression analysis: The multiple linear regression model. Maximum likelihood estimators; Residual analysis; Outliers and influential observations; Unequal variances; Multicollinearity; Power transformations; Variable selection; Weighted least squares; Logistic regression; Ridge regression; Robust regression; Principal component regression; Dummy variables and NOVA; Log-linear model; Econometric models.

Multivariate methods: Presentation of multivariate data; The multivariate normal distribution; Tests for normality; Hypothesis testing for one and two population mean vectors; Confidence regions and simultaneous confidence intervals; Multivariate control charts; Multivariate analysis of variance; Linear discriminant analysis; The use of the software R, Statistica and SAS to apply regression analysis and multivariate methods to datasets.

Continuous assessment

PP Statistics 214, 224, 244 or
PP Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

348	**24**	**Statistical Practice**	4L, 2T	**A+i**

Probability theory: Discrete probability distributions (the binomial, geometric, negative binomial, hypergeometric and Poisson distributions); Moments and moment generating functions; Continuous probability distributions (the normal, gamma and beta distributions); Functions of random variables (the method of transformations, the method of moment-generating functions, and order statistics).

Advanced statistical inference: Properties of estimators (unbiasedness, efficiency, consistency, sufficiency, robustness); Method of moments estimation; Maximum likelihood estimation; Likelihood ratio tests.

Time series analysis: Time series decomposition methods; Single exponential smoothing; Holt's method; Holt-Winter's method; Multiple regression in time series analysis; Box-Jenkins methodology for ARIMA models; Using the R and Statistica software to apply time series models.

Stochastic simulation: Generating random numbers from different distributions using R; Inverse transform method; Acceptance-rejection method; Practical applications of simulation using R.

Bayesian inference: Bayes' theorem; Bayesian priors, posteriors and estimators; Bayesian credibility intervals; Bayes hypothesis testing.

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**

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 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

41696 Chemical Engineering D				
244	**15**	**Experimental Design**	3L, 2P, 1T	**E**

8 Practicals per semester.

Variability of measurements; tabulation, presentation and description of observations; discrete and continuous variables and their probability models; binomial, negative binomial; Poisson, exponential and normal distributions; reliability theory; simulation and application of probability models; sampling distributions and estimation of parameters; confidence intervals; the measurement of relationships; simple linear regression and correlation analysis; estimation with the method of least squares; fundamentals of quality control. Statistical design of experiments. Statistical analysis of experimental data.

Carrying out Chemical Engineering experiments on pilot scale; report writing and computer simulations.

Project

C Chemical Engineering 224 and 264

Home department: PROCESS ENGINEERING
Formula for Final mark: P=K

59498 Engineering Statistics				
314	**15**	**Engineering Statistics**	3L, 2.5T	**A/E/T**

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+i**

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

- This module is more intensive than Theory of Interest 152.
- Students are required to complete at least 80% of all assigned class work/tutorials in order to gain access to the final examination. In cases where this requirement is not met, students will be awarded a class mark not exceeding 35%.
- 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+i**

Actuarial mathematical methods and models, principles of life contingencies, life insurance, general insurance, investments, employee benefits, healthcare financing 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+i**

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+i**

* 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 cases where this requirement is not met, students will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112
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%)
C Mathematics 214, 244
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

326	24	**Actuarial Models**	5L	**E+i**

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	**E+i**

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+i

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+i

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 Financial Risk Management 274 or
C Actuarial Science 274
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

242	**8**	**Derivatives**	2L, 1P	**A+i**

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 Financial Risk Management 274 or
C Actuarial Science 274
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

274	**24**	**Financial Mathematical Statistics**	4L	**A+i**

Basic Theory of Finance concepts, compound interest functions, discounted cash flow procedures, methodology to price loans, securities and financial derivatives, advanced annuity procedures, analyses of financial returns, principal components, introduction to stochastic simulation applied in financial markets.

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 cases where this requirement is not met, students will be awarded a class mark not exceeding 35%.

PP Actuarial Science 112
PP Mathematics 114, 144
PP Probability Theory and Statistics 144
C Financial Risk Management 212, 242
C Mathematics 214, 244
C Mathematical Statistics 214, 244

Home department: STATISTICS AND ACTUARIAL SCIENCE

314	24	**Financial Mathematical Statistics**	4L, 2T	**A+i**
Binomial trees; statistical modelling of stock prices, mathematical statistical derivation of Black-Scholes model and its applications; 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* *PP Financial Risk Management 274 or* *C Actuarial Science 274* Home department: STATISTICS AND ACTUARIAL SCIENCE				
344	**24**	**Modern Portfolio Theory**	4L, 2T	**A+i**
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 assessment.* Home department: LANGUAGE CENTRE				

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: LANGUAGE CENTRE				

Faculty of Economic and Management Sciences

11569 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 and 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 curves; 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				
171	**24**	**Introduction to Financial Accounting**	1L	**A&E**

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)

The Africa Centre for Dispute Settlement sees itself as a catalyst and thought leader in developing the theory and practice of mediation in all its forms, with a special emphasis on conflicts involving economic actors.

The activities of the Centre include teaching, training, research and publications, consulting, projects and the development and maintenance of accreditation standards for mediators.

For more information, visit the Centre's website at www.usb.ac.za/disputesettlement or send an e-mail to sunelle.hanekom@usb.ac.za.

Africa Centre for HIV/Aids Management

The Centre is a unit for education, research and community projects relating to HIV and Aids management in the workplace. Its postgraduate academic programmes comprise online teaching programmes supplemented with interactive satellite broadcasts.

For more information, visit the Centre's website at www.aidscentre.sun.ac.za/ or send an e-mail to pdm@sun.ac.za

Bureau for Economic Research (BER)

The Bureau for Economic Research is an economic research institution. It monitors and forecasts economic trends and identifies and analyses factors, both locally and internationally, that affect South African businesses. The BER's respected economic analysis and forecasting services are used by a wide range of clients, ranging from small- and medium-sized firms to very large JSE-listed companies, as well as public sector bodies and non-governmental organisations.

For more information, visit the BER's website at www.ber.ac.za or send an e-mail to bws@sun.ac.za

Centre for Corporate Governance

The Centre for Corporate Governance conducts multi-disciplinary research and offers educational and development activities to improve the effectiveness of corporate governance in African organisations. The Centre focuses on the development of the compliance and performance aspects of directors' attitudes, knowledge and skills, as well as on the link between corporate governance, business ethics and total organisational performance.

For more information, visit the Centre's website at www.governance.usb.ac.za or send an e-mail to governance@usb.ac.za

Centre for Statistical Consultation

The Centre for Statistical Consultation assists researchers and postgraduate students with statistical aspects of their research, including the calculation and interpretation of results.

For more information, visit the Centre's website at www.academic.sun.ac.za/statis_consult/ or e-mail mkidd@sun.ac.za

Institute for Futures Research (IFR) (SU Postgraduate Business School)

The Institute for Futures Research is a research institution uniquely positioned to assist decision-makers and strategic planners in initiating and managing medium- to long-term change. It prepares and supports organisations to implement effective strategic planning and lead them to envision and realise their future. The Institute is internationally recognised for its research and teaching in futures studies.

For more information, visit the Institute's website at www.ifr.sun.ac.za or send an e-mail to future@ifr.sun.ac.za

School of Public Leadership (SPL)

The School of Public Leadership provides solutions through unique research, graduate, postgraduate and executive programmes that add value for the public good within a global and African context.

Programmes are offered in modes that facilitate learning while working. Students, many of whom are mid-career leaders and managers, are guided to incorporate solutions for all levels of society in the workplace.

For more information, visit the School's website at www.schoolofpublicleadership.co.za/ or send an e-mail to enquiries@spl.sun.ac.za

Alphabetical List of Subjects