

**2013**

## **Mainstream Courses offered in English and the T-option**

### **1. UNDERGRADUATE COURSE OFFERINGS AT STELLENBOSCH UNIVERSITY**

#### **1.1 THE DIFFERENCE BETWEEN IPSU AND MAINSTREAM COURSES**

At Stellenbosch University international semester students can choose to register for undergraduate IPSU courses and/or mainstream courses. Mainstream courses form part of the university's degree programmes. As a semester student from abroad, students can choose a combination of courses from a variety of Faculties and Departments.

#### **1.2 UNDERGRADUATE MAINSTREAM COURSES**

The document aims to assist international students in their choice of courses within the mainstream course offerings at Stellenbosch University. It lists undergraduate mainstream courses available for international semester students. Undergraduate courses may be on offer in English or the T-option (50% English lecturing, 50% Afrikaans lecturing).

English Mainstream Course offerings are available in the below listed faculties:

Faculty of Arts and Social Sciences  
Faculty of Science  
Faculty of Law  
Faculty of Agrisciences  
Faculty of Economic and Management Sciences  
Faculty of Education  
Faculty of Engineering

T-option Mainstream Course offerings are available in the below listed faculties:

Faculty of Arts and Social Sciences  
Faculty of Science  
Faculty of Law  
Faculty of Theology  
Faculty of Economic and Management Sciences  
Faculty of Agrisciences  
Faculty of Education  
Faculty of Engineering

This document provides a cross reference to the online link of the applicable online yearbook and page number where the course contents of each subject listed can be found. These course descriptions can be provided to your home university for approval of courses. If these course descriptions are insufficient please contact our office and we can request a more detailed course description on your behalf.

Please note that this document is not the official yearbook of the University of Stellenbosch, but merely a document created by the Postgraduate & International Office to assist international semester students to choose appropriate courses. The official yearbook of the University of Stellenbosch is available at:  
<http://www.sun.ac.za/english/faculty/Pages/Calendar.aspx> .

Please note that once an application for a mainstream course has been entered, a student needs to allow four to six weeks to receive feedback on whether he/she has been approved for the specific course. Students who apply for

mainstream courses may be requested to provide course descriptions of the highest level completed at the home university.

Students should make sure to apply for a course offered in the actual semester of attendance at Stellenbosch University. To assist in choosing courses, this document indicates the semester in which a course is offered. Take note that first semester applicants (January - June) may apply for a full year course for half the credit value provided the academic department approves such a special arrangement.

### **1.3 READING AND UNDERSTANDING THE UNDERGRADUATE COURSE OFFERINGS IN THE OFFICIAL ONLINE YEARBOOK OF THE UNIVERSITY OF STELLENBOSCH**

When considering undergraduate courses from the official yearbook of the University of Stellenbosch the yearbook can be very confusing. Please see the explanation below to assist you in reading and understanding the official yearbook of the University of Stellenbosch.

#### **LANGUAGE OF INSTRUCTION**

The following indicates the medium of instruction

(A) – Only Afrikaans

(E) – Only English

(T)\* – T option: 50/50

(A/E) – parallel: two class streams

\* Take note that all academic material is available in English

#### **ABBREVIATIONS & COURSE CODES:**

Each of the following abbreviations is used to denote the stated combination of (i) type of instruction and (ii) length of time:

- L lecture of 50 minutes;
- P practical period of 50 minutes [for instance: „2P“ and „10P“ stand for totals of two practical periods and ten practical periods, respectively]; 3P a practical of maximally 170 minutes [this maximum is made up of 3 x 50 minutes, plus the two intervals of 10 minutes each]; S seminar of 50 minutes; T tutorial of 50 minutes; 2T tutorial of maximally 110 minutes [this maximum is made up of 2 x 50 minutes, plus the interval of 10 minutes].

The undergraduate course codes indicate when the course is offered. The code consists of three digits. The first indicates the year-level of the course, the second indicates which semester the course is offered in (1, 2 and 3 indicates a first semester course; 4, 5 and 6 indicates a second semester course. 7 or 8 indicates a full year course). The third digit is irrelevant for your purposes. For example: English 348 is a third year course (3); offered in the second semester (4).

For a visual explanation of the above, please see the next page's extract from the yearbook from the Faculty of Science.

## HOW TO READ THE MAINSTREAM COURSE CODES

144	16	<b>Fundamental Principles of Chemistry II</b>	3L, 3P	A & E
Chemical equilibrium (both quantitative and qualitative), with applications in acid-base and precipitation reactions of aqueous solutions; an introductory study of organic compounds with a variety of functional groups; reaction mechanisms; stereochemistry; polymerisation.				
<i>C Chemistry 124</i>				
176	32	<b>Introduction to Chemistry</b>	3L, 3P	A & E
For students in the EDP (Extended Degree Programme). This module deals with the following themes: classification of matter; atoms, molecules and ions; stoichiometry; reactions in aqueous solutions; atomic structure; chemical bonding; acid and bases; the periodic table. Examples that illustrate the importance and relevance of science as an everyday phenomenon.				
214	16	<b>Organic Chemistry</b>	3L, 3P	T
Reaction mechanisms, including nucleophilic addition and substitution, elimination, electrophilic addition, electrophilic aromatic substitution; stereochemistry.				
<i>PP Chemistry 114, 154</i>				
234	16	<b>Inorganic Chemistry</b>	3L, 3P	E
Periodic trends; structure and bonding in molecules; structure and bonding in solids; chemistry in solution; main group elements.				
Coordination chemistry: Introduction, types of ligands, nomenclature; isomerism in coordination compounds; different geometries; formation constants; crystal field theory.				
<i>PP Chemistry 114</i>				
254	16	<b>Physical Chemistry</b>	3L, 3P	A
Chemical thermodynamics; colligative properties; phase diagrams; reaction kinetics; electrochemistry.				
<i>P Mathematics 114, 144</i>				
264	16	<b>Analytical Chemistry</b>	3L, 3P	T
Introduction to chemical analysis; basic classical analytical chemistry; errors and uncertainty in analytical data; basic statistical methods; volumetric methods (acid-base, redox and complexometric analysis); solvent extraction; introduction to chromatographic separation; introduction to analytical molecular spectroscopy: fundamental principles and quantitative aspects of UV/visible spectrophotometry.				
<i>PP Chemistry 114, 154 and P Mathematics 114, 144 or P Mathematics (Bio) 124 or P Engineering Mathematics 115, 145</i>				
314	16	<b>Analytical Chemistry</b>	3L, 3P	E
Introduction to instrumental analysis. Error theory in quantitative chemical analysis, calibration in instrumental analysis and figures of merit. Introduction to atomic spectroscopy: atomic absorption and atomic emission spectroscopy for quantitative elemental analysis. Molecular spectroscopy: basic principles and application of <sup>1</sup> H and <sup>13</sup> C nuclear magnetic resonance spectroscopy (NMR); introduction to infrared spectroscopy; introduction to analytical mass spectrometry; instrumental chromatographic methods.				
<i>P Chemistry 224</i>				

This indicates the name of the module

The code consists of three digits. The first indicates the year-level of the course, the second indicates which semester the course is offered in (1, 2 and 3 indicates a course taught in the first semester; 4, 5 and 6 indicates a second semester course. 7 or 8 indicates a course that runs over a whole year). The third digit is irrelevant for your purposes. For example: English 348 is a

The following indicates the medium of instruction

(A) – Only Afrikaans

(E) – Only English

(T) – T option: 50/50

(A/E) – parallel: two class streams

\* Take note that all academic material will

Indicates type of instruction and length of time (indicated per week):

L lecture of 50 minutes;

P practical period of 50 minutes [for instance: '2P' and '10P' stand for totals of two practical periods and ten practical periods, respectively];

3P a practical of maximally 170 minutes [this maximum is made up of 3 x 50 minutes, plus the two intervals of 10 minutes each];

S seminar of 50 minutes; T tutorial of 50 minutes;

2T tutorial of maximally 110 minutes [this maximum is made up of 2 x 50 minutes, plus the interval of 10 minutes].

**Fundamentals Principles of Chemistry II is thus a first year subject offered in the second semester, worth 16 credits and is taught both in Afrikaans and English. Instruction is given in 3 lectures and a practical of approximately 170 minutes per week.**

This indicates the amount of credits for the course

2 South African credits = 1 ECTS

## **2. POSTGRADUATE COURSE OFFERINGS AT STELLENBOSCH UNIVERSITY**

All postgraduate courses at Stellenbosch University are offered in English.

For more information on postgraduate course offerings you can access the official calendar of the University of Stellenbosch at: <http://www.sun.ac.za/english/faculty/Pages/Calendar.aspx>. Take note that the course codes do not correspond to the semester in which it is taught.

If you do not find enough information in the yearbook your next viable option will be to access the website of the department to access their information on postgraduate course offerings. You do this by going to the official Stellenbosch University website, <http://www.sun.ac.za/Home.aspx> and searching for the name of the department in the "A to Z Faculties and departments index",  
<http://www.sun.ac.za/english/pages/facultiesanddepartments.aspx?letter=a>.

Apart from the above you can also go to the faculty link at <http://www.sun.ac.za/english/faculty/> and access information about the faculties, the departments which are part of a faculty, the calendar of the faculty and the programmes offered.

The contents of these postgraduate course offerings differ between different departments. Some departments only indicate the course names, while others indicate the semester in which a course is offered and some departments have a detailed course description of the course available on the website.

If you cannot find sufficient postgraduate course information on the departmental website your last option will be to contact our office so that we can further assist you in finding such information.

## **3. CHOICE OF COURSE TO SUIT THE SEMESTER OF YOUR STUDY**

The first semester is the first half of the academic year at Stellenbosch University which usually commences in February and ends in June. The second semester is the second half of the academic year at Stellenbosch University which usually commences in July and ends in December. The university's semester dates for 2013 are available at: <http://www.sun.ac.za/english/Pages/Termdates2013.aspx>.

## Table of Contents

## page number in this document

MAINSTREAM COURSES PRESENTED IN ENGLISH .....	7-20
<b>Faculty of Arts and Social Sciences</b> .....	7
Department of English .....	7
Department of General Linguistics .....	7
Department of Geography and Environmental Studies .....	7
Department of Information Science .....	7
Department of Modern Foreign Languages .....	7-8
Department of Music .....	8-9
Language Centre .....	9
<b>Faculty of Science</b> .....	9
Modules presented by various departments .....	9
Department of Botany and Zoology .....	9
Department of Chemistry and Polymer Science .....	10
Department of Earth Sciences .....	10
Department of Mathematical Sciences:Subdivisions, Mathematics; Applied Mathematics; Computer Science .....	10-11
Department of Physics .....	11
<b>Faculty of Law</b> .....	12
Department of Public Law .....	12
<b>Faculty of Agrisciences</b> .....	12
Department of Animal Sciences .....	12
Department of Genetics .....	12
Department of Conservation Ecology .....	12
Department of Food Science .....	13
Department of Forest and Wood Science .....	13-14
<b>Faculty of Economic and Management Sciences</b> .....	14
Department of Accounting .....	14
Department of Business Management .....	14
Department of Economics .....	14
Department of Industrial Psychology .....	14-15
Departments of Logistics .....	15
School of Public Leadership .....	15
Department of Statistics and Actuarial Science .....	15
<b>Faculty of Education</b> .....	15-16
<b>Faculty of Engineering</b> .....	16
Department of Civil Engineering .....	16
Department of Engineering (Admin) .....	16-17
Process Engineering .....	17
Department of Electric and Electronic Engineering .....	17-18
Department of Mechanical and Mechatronic Engineering .....	18-19
Department of Industrial Engineering .....	19
Presented by other departments for engineering students .....	19-20
MAINSTREAM COURSES ON OFFER IN T-OPTION .....	20-40
<b>Faculty of Arts and Social Sciences</b> .....	20
Department of African Languages .....	20
Department of Ancient Studies .....	20-21
Department of Drama .....	21-22
Department of General Linguistics .....	22
Department of Geography and Environmental Studies .....	22
Department of History .....	22-23
Department of Information Science .....	23

Department of Music.....	23-25
Department of Philosophy.....	25
Department of Political Science.....	25-26
Department of Psychology.....	26
Department of Social Work.....	26
Department of Sociology and Social Anthropology.....	26-27
Department of Visual Arts.....	27-28
Metadisciplines presented by various departments.....	28
Language Centre.....	28
<b>Faculty of Science.....</b>	<b>28</b>
Modules Presented by Various Departments.....	28
Department of Biochemistry.....	28
Department of Botany and Zoology.....	28-29
Department of Chemistry and Polymer Science.....	29
Department of Earth Sciences.....	29
Department of Mathematical Sciences (Mathematics, Applied Mathematics and Computer Science division).....	29-30
Department of Microbiology.....	30
Department of Physics.....	30-31
Department of Physiological Sciences.....	31
<b>Faculty of Law.....</b>	<b>31</b>
Department of Mercantile Law.....	31-32
Department of Public Law.....	32-33
Department of Private Law.....	33
<b>Faculty of Theology.....</b>	<b>33-35</b>
<b>Faculty of Economic and Management Sciences.....</b>	<b>35</b>
Department of Economics.....	35
Department of Industrial Psychology.....	35
School of Public Leadership.....	35
Economic and Management Sciences (General).....	35
<b>Faculty of Agrisciences.....</b>	<b>36</b>
Department of Agricultural Economics.....	36
Department of Agronomy.....	36
Department of Animal Sciences.....	36
Department of Conservation Ecology and Entomology.....	37
Department of Horticulture.....	37
Department of Food Science.....	37
Department of Genetics.....	38
Department of Viticulture and Oenology.....	38-39
Department of Soil Science.....	39
Department of Plant Pathology.....	39
<b>Faculty of Education.....</b>	<b>39-40</b>
<b>Faculty of Engineering.....</b>	<b>40</b>
Department of Process Engineering.....	40
Department of Industrial Engineering.....	40
Department of Mechanical and Mechatronic Engineering.....	<b>40</b>

# Mainstream Courses offered in English at Stellenbosch University

## FACULTY OF ARTS AND SOCIAL SCIENCES (E)

### DEPARTMENT OF ENGLISH

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

**318(24)** English Studies: *Language, Culture and Literature in the Modern Context*..... **Yearbook p.196**

#### Second semester course

**348(24)** English Studies: *Language, Culture and Literature in the Postcolonial Context*..... **Yearbook p.197**

#### Full year course

**178(24)** English Studies: *Language and Literature in Context*..... **Yearbook p.195**

**278(32)** English Studies: *Reading literature and Culture*..... **Yearbook p.196**

### DEPARTMENT OF GENERAL LINGUISTICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

**318(24)** Applied English Language Studies  
..... **Yearbook p.198**

#### Second semester course

**348(24)** Applied English Language Studies  
..... **Yearbook p.198**

#### Full year course

**278(32)** Applied English Language Studies..... **Yearbook p.198**

### DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

**214(16)** Geographical Information Systems  
..... **Yearbook p.199**

#### Second semester course

**363(16)** Geographic Communication  
..... **Yearbook p.200**

### DEPARTMENT OF INFORMATION SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

**114(12)** Socio-Informatics: *The Knowledge Economy and Society*..... **Yearbook p.202**

#### Second semester course

**144(12)** Socio-Informatics: *Technology, Organisation and Society*..... **Yearbook p.202**

**114(12)** Decision-making and value studies: *The Knowledge Economy and Society*..... **Yearbook p.203**

**144(12)** Decision-making and value studies: *Technology, Organisation and Society*..... **Yearbook p.203**

### DEPARTMENT OF MODERN FOREIGN LANGUAGES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

**318(24)** Advanced Study of the German Language and Culture I..... **Yearbook p.207**

#### Second semester course

**348(24)** Advanced Study of the German Language and Culture II..... **Yearbook p.207**

**328(24)** Advanced Study of German Literature and Culture I..... **Yearbook p.207**

**358(24)** Advanced Study of German Literature and Culture II..... **Yearbook p.207**

**318(24)** Advanced Study of the French Language,

**348(24)** Advanced Study of the French Language,

Literature and Culture I ..... <b>Yearbook p.209</b>	Literature and Culture II ..... <b>Yearbook p.209</b>
<b>318(24)</b> Intermediate Study of the Chinese Language and Culture I ..... <b>Yearbook p.210</b>	<b>348(24)</b> Intermediate Study of the Chinese Language and Culture II ..... <b>Yearbook p.210</b>

**Full year course**

<b>178(24)</b> Introduction to the German Language and Culture.....	<b>Yearbook p.206</b>
<b>188(24)</b> German Language, Literature and Culture of the 20th and 21st Centuries.....	<b>Yearbook p.206</b>
<b>278(32)</b> Intermediate Study of the German Language, Literature and Culture.....	<b>Yearbook p.206</b>
<b>288(32)</b> German Language, Literature and Culture from the 18th century to the present.....	<b>Yearbook p.207</b>
<b>178(24)</b> Introduction to the French Language and Culture.....	<b>Yearbook p.208</b>
<b>188(24)</b> Intermediate Study of the French Language, Literature and Culture.....	<b>Yearbook p.208</b>
<b>278(32)</b> Continued Study of the French Language, Literature and Culture.....	<b>Yearbook p.208</b>
<b>178(24)</b> Introduction to the Chinese Language and Culture.....	<b>Yearbook p.209</b>
<b>278(32)</b> Continued Study of Chinese Language and Culture.....	<b>Yearbook p.209</b>

**DEPARTMENT OF MUSIC**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

<b>First semester course</b>		<b>Second semester course</b>	
<b>318(24)</b> Practical Music Study S.....	<b>Yearbook p.229</b>	<b>361(30)</b> Practical Music Study S.....	<b>Yearbook p.230</b>
<b>321(30)</b> Practical Music Study S.....	<b>Yearbook p.229</b>	<b>348(24)</b> Practical Music Study S.....	<b>Yearbook p.230</b>
<b>418(30)</b> Practical Music Study S.....	<b>Yearbook p.231</b>	<b>448(30)</b> Practical Music Study S.....	<b>Yearbook p.232</b>

**Full year course**

<b>176(12)</b> Accompaniment.....	<b>Yearbook p.220</b>
<b>276(12)</b> Accompaniment.....	<b>Yearbook p.220</b>
<b>376(12)</b> Accompaniment.....	<b>Yearbook p.220</b>
<b>476(12)</b> Accompaniment.....	<b>Yearbook p.220</b>
<b>284(12)</b> Chamber Music.....	<b>Yearbook p.221</b>
<b>384(12)</b> Chamber Music.....	<b>Yearbook p.221</b>
<b>484(12)</b> Chamber Music.....	<b>Yearbook p.221</b>
<b>394(12)</b> Improvisation.....	<b>Yearbook p.222</b>
<b>494(12)</b> Improvisation.....	<b>Yearbook p.222</b>
<b>377(12)</b> Orchestral Studies.....	<b>Yearbook p.225</b>
<b>477(12)</b> Orchestral Studies.....	<b>Yearbook p.225</b>
<b>171(6)</b> Practical Music Study (Preparatory).....	<b>Yearbook p.225</b>
<b>271(8)</b> Practical Music Study (Preparatory).....	<b>Yearbook p.225</b>
<b>184(12)</b> All Instruments, Conducting and Voice.....	<b>Yearbook p.225</b>
<b>284(12)</b> All Instruments, Conducting and Voice.....	<b>Yearbook p.226</b>
<b>384(12)</b> All Instruments, Conducting and Voice.....	<b>Yearbook p.226</b>
<b>484(12)</b> All Instruments, Conducting and Voice.....	<b>Yearbook p.226</b>
<b>179(24)</b> Conducting and Church Music.....	<b>Yearbook p.226</b>
<b>279(24)</b> Conducting and Church Music.....	<b>Yearbook p.226</b>
<b>379(24)</b> Conducting and Church Music.....	<b>Yearbook p.226</b>
<b>479(24)</b> Conducting and Church Music.....	<b>Yearbook p.226</b>
<b>178(24)</b> Keyboard Instruments, Recorder and Guitar.....	<b>Yearbook p.226</b>
<b>278(24)</b> Keyboard Instruments, Recorder and Guitar.....	<b>Yearbook p.226</b>
<b>378(24)</b> Keyboard Instruments, Recorder and Guitar.....	<b>Yearbook p.226</b>
<b>478(24)</b> Keyboard Instruments, Recorder and Guitar.....	<b>Yearbook p.227</b>
<b>188(24)</b> Orchestral Instruments.....	<b>Yearbook p.227</b>
<b>288(24)</b> Orchestral Instruments.....	<b>Yearbook p.227</b>
<b>388(24)</b> Orchestral Instruments.....	<b>Yearbook p.227</b>



<b>488(24)</b> Orchestral Instruments.....	Yearbook p.227
<b>198(24)</b> Voice.....	Yearbook p.227
<b>298(24)</b> Voice.....	Yearbook p.227
<b>398(24)</b> Voice.....	Yearbook p.227
<b>498(24)</b> Voice.....	Yearbook p.227
<b>174(12)</b> Practical Music Study B.....	Yearbook p.227
<b>274(12)</b> Practical Music Study B.....	Yearbook p.227
<b>374(12)</b> Practical Music Study B.....	Yearbook p.228
<b>474(12)</b> Practical Music Study B.....	Yearbook p.228
<b>196(24)</b> Practical Music Study E.....	Yearbook p.228
<b>296(24)</b> Practical Music Study E.....	Yearbook p.228
<b>396(24)</b> Practical Music Study E.....	Yearbook p.228
<b>496(24)</b> Practical Music Study E.....	Yearbook p.229
<b>186(12)</b> Practical Score Reading.....	Yearbook p.232
<b>286(12)</b> Practical Score Reading.....	Yearbook p.232
<b>386(12)</b> Practical Score Reading.....	Yearbook p.232
<b>486(12)</b> Practical Score Reading.....	Yearbook p.232
<b>389(36)</b> Repertoire Studies.....	Yearbook p.233

### LANGUAGE CENTRE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>113(12)</b> Professional Communication..... Yearbook p.253	<b>153(8)</b> Language Skills (English)..... Yearbook p.253
<b>116(12)</b> Scientific Communication Skills ..... Yearbook p.254	<b>146(6)</b> Scientific Communication Skills..... Yearbook p.254

### Full year course

**174(8)** Scientific Communication Skills..... Yearbook p. 254

## FACULTY OF SCIENCE (E)

### COURSES PRESENTED BY VARIOUS DEPARTMENTS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>124(16)</b> Biology: <i>Cell Biology</i> ..... Yearbook p.61	<b>144(16)</b> Biology: <i>Biodiversity and Ecology</i> ..... Yearbook p.61
<b>314(16)</b> Biotechnology: <i>Advanced Biotechnology</i> ..... Yearbook p.62	<b>154(16)</b> Biology: <i>Functional Biology</i> ..... Yearbook p.61

### DEPARTMENT OF BOTANY AND ZOOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(16)</b> Biodiversity and Ecology: <i>Principles of Ecology</i> ..... Yearbook p.65-66	<b>244(16)</b> Biodiversity and Ecology: <i>Principles of Evolution</i> ..... Yearbook p.66
<b>315(16)</b> Biodiversity and Ecology: <i>Ecology Field Course</i> ..... Yearbook p.67	<b>344(16)</b> Biodiversity and Ecology: <i>Evolutionary Ecology</i> ..... Yearbook p.68

## DEPARTMENT OF CHEMISTRY AND POLYMER SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>124(16)</b> Chemistry: <i>Fundamental Principles of Chemistry I</i> ..... Yearbook p.70	<b>144(16)</b> Chemistry: <i>Fundamental Principles of Chemistry II</i> ..... Yearbook p.71
<b>234(16)</b> Chemistry: <i>Inorganic Chemistry</i> ... Yearbook p.71	<b>364(16)</b> Chemistry: <i>Inorganic Chemistry</i> ... Yearbook p.72
<b>314(16)</b> Chemistry: <i>Analytical Chemistry</i> ... Yearbook p.71	<b>344(16)</b> Applied Chemistry: <i>Analytical Polymer Science</i> ..... Yearbook p.73
<b>224(15)</b> Chemistry C: <i>Industrial Chemistry I</i> ..... Yearbook p.73	<b>254(15)</b> Chemistry C: <i>Industrial Chemistry II</i> ..... Yearbook p.74

### Full year course

<b>176(32)</b> Chemistry: <i>Introduction to Chemistry</i> ..... Yearbook p.71
<b>197(12)</b> Chemistry (Medicine): <i>Chemistry for EDP students</i> ..... Yearbook p.74

## DEPARTMENT OF EARTH SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>224(16)</b> Geology: <i>Introduction to Mineralogy</i> ..... Yearbook p.78	<b>254(16)</b> Geology: <i>Optical Mineralogy and Petrography</i> ..... Yearbook p.78
<b>314(16)</b> Geology: <i>Igneous Petrology</i> ..... Yearbook p.78	<b>354(16)</b> Geology: <i>Metamorphic Petrology and Tectonics</i> ..... Yearbook p.79
<b>314(16)</b> Environmental Geochemistry ... Yearbook p.79	

### Full year course

<b>172(8)</b> Earth Science Field Skills ..... Yearbook p.76
<b>272(16)</b> Earth Science Field Skills ..... Yearbook p.77
<b>374(16)</b> Earth Science Field Skills ..... Yearbook p.77

## DEPARTMENT OF MATHEMATICAL SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

### DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION MATHEMATICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>114(16)</b> Mathematics: <i>Calculus</i> ..... Yearbook p.82	<b>144(16)</b> Mathematics: <i>Calculus and Linear Algebra</i> ..... Yearbook p.82
<b>214(16)</b> Biomathematics: <i>Mathematical Applications in Biology and Medicine</i> ..... Yearbook p.88	<b>344(16)</b> Mathematics: <i>Discrete Mathematics</i> ..... Yearbook p.84
<b>314(16)</b> Biomathematics: <i>An Introduction to Biological Modelling I</i> ..... Yearbook p.88	<b>344(16)</b> Biomathematics: <i>An Introduction to Biological Modelling II</i> ..... Yearbook p.88
<b>124(16)</b> Mathematics (Bio): <i>Mathematics for the Biological Sciences</i> ..... Yearbook p.89	<b>145(15)</b> Engineering Mathematics: <i>Further Differential and Integral Calculus</i> ..... Yearbook p.90
<b>115(15)</b> Engineering Mathematics: <i>Introductory</i>	

<i>Differential and Integral Calculus</i> .....	<b>Yearbook p.90</b>	<b>242(8)</b> Engineering Mathematics: <i>Series and Partial Differential Equations</i> .....	<b>Yearbook p.90</b>
<b>214(15)</b> Engineering Mathematics: <i>Differential Equations and Linear Algebra</i> .....	<b>Yearbook p.90</b>	<b>252(8)</b> Engineering Mathematics: <i>Galerkin Finite Element Method</i> .....	<b>Yearbook p.90</b>
		<b>244(15)</b> Engineering Mathematics E: <i>Series and Complex Functions</i> .....	<b>Yearbook p.90</b>

**Full year course**

<b>186(32)</b> Mathematics: <i>Introductory Mathematics</i> .....	<b>Yearbook p.83</b>
<b>374(16)</b> Biomathematics: <i>Project on Biological Modelling</i> .....	<b>Yearbook p.88</b>
<b>176(32)</b> Mathematics (Bio): <i>Introductory Mathematics for the Biological Sciences</i> .....	<b>Yearbook p.89</b>

**DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION APPLIED MATHEMATICS**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>124(15)</b> Applied Mathematics B: <i>Statics</i> .....	<b>Yearbook p.93</b>
<b>224(15)</b> Applied Mathematics B: <i>Dynamics of Rigid Bodies</i> .....	<b>Yearbook p.93</b>
	<b>242(8)</b> Applied Mathematics B: <i>Vector Analysis</i> .....
	<b>Yearbook p.94</b>
	<b>264(15)</b> Applied Mathematics B: <i>Applied Mathematics for Civil Engineers</i> .....
	<b>Yearbook p.94</b>
	<b>262(8)</b> Numerical Methods.....
	<b>Yearbook p.94</b>

**DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION COMPUTER SCIENCE**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(15)</b> Computer Science: <i>Object-Oriented Programming</i> .....	<b>Yearbook p.100</b>
<b>116(8)</b> University Practice in Natural Sciences.....	<b>Yearbook p.100</b>

**Full year course**

<b>176(8)</b> Computer Skills.....	<b>Yearbook p.99</b>
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**DEPARTMENT OF PHYSICS**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>134(16)</b> Physics Bio: <i>Introductory Physics for Biological Sciences A</i> .....	<b>Yearbook p.112</b>
	<b>146(16)</b> Physics: <i>Preparatory Physics</i> .....
	<b>Yearbook p.104</b>
	<b>154(16)</b> Physics Bio: <i>Introductory Physics for Biological Sciences B</i> .....
	<b>Yearbook p.113</b>

## FACULTY OF LAW (E)

### DEPARTMENT OF PUBLIC LAW

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Law\\_\(Eng\)\\_WEBpdf.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Law_(Eng)_WEBpdf.pdf)

First semester course	Second semester course
	<b>341(12)</b> International Law ..... Yearbook p.33
	<b>451(12)</b> International Law ..... Yearbook p.33

#### Full year course

**171(10)** Writing Skills ..... Yearbook p.40

## FACULTY OF AGRISCIENCES (E)

### DEPARTMENT OF ANIMAL SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>424(16)</b> Production traits improvement ..... Yearbook p.80	<b>454(16)</b> Applied breeding plans ..... Yearbook p.81
<b>424(16)</b> Aquaculture review, assessment and project development I ..... Yearbook p.91	<b>454(16)</b> Aquaculture review, assessment and project development II ..... Yearbook p.91

### DEPARTMENT OF GENETICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>212(8)</b> Biometry: <i>Introductory biometry</i> .... Yearbook p.95	<b>242(8)</b> Biometry: <i>Applications in biometry</i> ..... Yearbook p.95

### DEPARTMENT OF CONSERVATION ECOLOGY AND ENTOMOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>212(8)</b> Conservation Ecology: <i>Conserving nature</i> ..... Yearbook p.100	<b>244(16)</b> Conservation Ecology: <i>Conservation censusing</i> ..... Yearbook p.100
<b>314(16)</b> Conservation Ecology: <i>Biome ecology</i> ..... Yearbook p.101	<b>344(16)</b> Conservation Ecology: <i>Introduction to conservation management</i> ..... Yearbook p.101
<b>414(16)</b> Conservation Ecology: <i>Advanced conservation management</i> ..... Yearbook p.101	<b>448(32)</b> Conservation Ecology: <i>Conservation plan/research project</i> ..... Yearbook p.101
<b>424(16)</b> Conservation Ecology: <i>Wildlife management in a changing environment</i> ..... Yearbook p.101	<b>454(16)</b> Entomology: <i>Applied insect ecology</i> ..... Yearbook p.106
	<b>464(16)</b> Entomology: <i>Insect conservation ecology</i> ..... Yearbook p.106

## DEPARTMENT OF FOOD SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>334(16)</b> Reading and writing skills for food science students..... <b>Yearbook p.110</b>	

## DEPARTMENT OF FOREST AND WOOD SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>212(8)</b> Forest Science: <i>Introduction to natural forest ecosystems</i> ..... <b>Yearbook p.112</b>	<b>254(16)</b> Forest Science: <i>Forest mensuration and inventory</i> ..... <b>Yearbook p.112</b>
<b>234(8)</b> Forest Science: <i>Forest and environmental policy and law</i> ..... <b>Yearbook p.112</b>	<b>344(16)</b> Forest Science: <i>Forestry Development</i> ..... <b>Yearbook p.113</b>
<b>314(16)</b> Forest Science: <i>Silviculture I</i> ..... <b>Yearbook p.113</b>	<b>354(16)</b> Forest Science: <i>Forest growth and yield science</i> ..... <b>Yearbook p.113</b>
<b>414(16)</b> Forest Science: <i>Silviculture II</i> ..... <b>Yearbook p.114</b>	<b>355(16)</b> Forest Science: <i>Forest finance, economics and marketing</i> ..... <b>Yearbook p.113</b>
<b>422(8)</b> Forest Science: <i>Forest and environmental policy and law</i> ..... <b>Yearbook p. 114</b>	<b>364(16)</b> Forest Science: <i>Timber harvesting</i> ..... <b>Yearbook p.113</b>
<b>424(16)</b> Forest Science: <i>Forest management and planning</i> ..... <b>Yearbook p.114</b>	<b>442(1)</b> Forestry practical work..... <b>Yearbook p.115</b>
<b>434(16)</b> Forest Science: <i>Forest roads and transport</i> ..... <b>Yearbook p.114</b>	<b>468(32)</b> Forest and Wood Science: <i>Management plan</i> ..... <b>Yearbook p.115</b>
<b>435(8)</b> Forest Science: <i>Silviculture III</i> ..... <b>Yearbook p.115</b>	<b>144(16)</b> Wood Product Science: <i>Wood anatomy and identification</i> ..... <b>Yearbook p.146</b>
<b>234(16)</b> Wood Product Science: <i>Mechanics of wood products</i> ..... <b>Yearbook p. 146</b>	<b>244(16)</b> Wood Product Science: <i>Wood chemistry and preservation</i> ..... <b>Yearbook p.146</b>
<b>334(16)</b> Wood Product Science: <i>Design and construction of wood products</i> ..... <b>Yearbook p.147</b>	<b>264(16)</b> Wood Product Science: <i>Wood physics and drying</i> ..... <b>Yearbook p.146</b>
<b>335(16)</b> Wood Product Science: <i>Wood adhesives and composite products</i> ..... <b>Yearbook p.147</b>	<b>444(12)</b> Wood Product Science: <i>Bio-energy</i> ..... <b>Yearbook p. 147</b>
<b>414(16)</b> Wood Product Science: <i>Wood products manufacturing I</i> ..... <b>Yearbook p.147</b>	<b>464(16)</b> Wood Product Science: <i>Industrial wood finishing</i> ..... <b>Yearbook p.147</b>
<b>424(16)</b> Wood Product Science: <i>Furniture design and construction</i> ..... <b>Yearbook p.147</b>	
<b>434(16)</b> Wood Product Science: <i>Wood products manufacturing II</i> ..... <b>Yearbook p.147</b>	

### Full year course

**171(12)** Forest Science: *Introduction*..... **Yearbook p.112**

274(16) Forest Science: Forest Botany.....Yearbook p.113

## FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES (E)

### DEPARTMENT OF ACCOUNTING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>112(6)</b> Information Systems: <i>Information Systems in a Business Environment</i> .....Yearbook p.185	<b>152(6)</b> Information Systems: <i>Accounting Information Systems</i> .....Yearbook p.179

#### Full year course

<b>178(24)</b> Financial Accounting.....Yearbook p.184	<b>188(24)</b> Financial Accounting.....Yearbook p.185
<b>288(32)</b> Financial Accounting.....Yearbook p.185	<b>188(24)</b> Information Systems: <i>Information Systems for Accountants</i> .....Yearbook p.186

### DEPARTMENT OF BUSINESS MANAGEMENT

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>113(8)</b> Business Management .....Yearbook p.189	<b>142(6)</b> Business Management: <i>The Investment Decision</i> .....Yearbook p.189
<b>214(16)</b> Entrepreneurship and Innovation Management: <i>Introduction to Entrepreneurship</i> .....Yearbook p.190	<b>244(16)</b> Entrepreneurship and Innovation Management: <i>Small Business Management</i> .....Yearbook p.190
<b>214(16)</b> Financial Management: <i>Introduction to Financial Management</i> .....Yearbook p.191	<b>244(16)</b> Financial Management: <i>Corporate Financial Management</i> .....Yearbook p.191
<b>214(16)</b> Marketing Management.....Yearbook p.194	<b>244(16)</b> Marketing Management: <i>Advertising and Sales Promotion</i> .....Yearbook p.194
<b>314(12)</b> Management of Corporate Social Responsibility .....Yearbook p.195	

### DEPARTMENT OF ECONOMICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>114(12)</b> <i>Economics</i> .....Yearbook p.196	<b>144(12)</b> <i>Economics</i> .....Yearbook p.196
<b>214(16)</b> <i>Economics</i> .....Yearbook p.196	<b>244(16)</b> <i>Economics</i> .....Yearbook p.196

### DEPARTMENT OF INDUSTRIAL PSYCHOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>214(16)</b> Industrial Psychology: <i>Psychometrics</i> .....Yearbook p.199	<b>152(6)</b> Industrial Psychology: <i>Occupational Psychology</i> .....Yearbook p.198
<b>224(16)</b> Industrial Psychology: <i>Consumer Behaviour</i> .....Yearbook p.199	<b>162(6)</b> Industrial Psychology: <i>Ergonomics</i> .....Yearbook p.198
<b>114(12)</b> Industrial Psychology .....Yearbook p.198	<b>244(16)</b> Industrial Psychology: <i>Human Resource Management</i> .....Yearbook p.199

**DEPARTMENT OF LOGISTICS**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>214(16)</b> Logistics Management..... Yearbook p.202	<b>244(16)</b> Logistics Management..... Yearbook p.202
<b>214(16)</b> Quantitative Management ..... Yearbook p.205	<b>244(16)</b> Quantitative Management ..... Yearbook p.205
<b>214(16)</b> Transport Economics..... Yearbook p.207	<b>144(12)</b> Supply Chain Management..... Yearbook p.206
	<b>244(16)</b> Transport Economics..... Yearbook p.207

**SCHOOL OF PUBLIC LEADERSHIP**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>114(12)</b> Public and Development Management: <i>Orientation to development, society and state</i> ..... Yearbook p.214	<b>144(12)</b> Public and Development Management: <i>Public management and policy</i> ..... Yearbook p.214

**DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

First semester course	Second semester course
<b>112(8)</b> Actuarial Science: <i>Theory of Interest</i> ..... Yearbook p.223	<b>144(16)</b> Probability Theory and Statistics ..... Yearbook p.216
<b>326(24)</b> Actuarial Science: <i>Actuarial Models</i> ..... Yearbook p.224	<b>142(16)</b> Actuarial Science: <i>Introduction to Actuarial Science</i> ..... Yearbook p.223
	<b>242(16)</b> Actuarial Science: <i>Introduction to Actuarial Mathematics</i> ..... Yearbook p.224
	<b>152(6)</b> Theory of Interest..... Yearbook p.222

**Full year course**

<b>186(18)</b> Statistics: <i>Introduction to Statistics</i> ..... Yearbook p.218
<b>176(18)</b> Statistical Methods: <i>Statistical Methods with Computer Implementation</i> ..... Yearbook p.221

**FACULTY OF EDUCATION (E)**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Education\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Education_(Eng)_WEB.pdf)

**Full year course**

<b>278(15)</b> ENGLISH (ED) [BEd (Gen Ed) (Intermediate and Senior Phases) (ISP)]..... Yearbook p.94
<b>378(20)</b> ENGLISH (ED) [BEd (Gen Ed) (Intermediate and Senior Phases) (ISP)]..... Yearbook p.94
<b>478(20)</b> ENGLISH (ED) [BEd (Gen Ed) (Intermediate and Senior Phases) (ISP)]..... Yearbook p.95
<b>284(15)</b> ENGLISH (ED) [BEd (Gen Ed) (Foundation Phase) (FP)]..... Yearbook p.95
<b>384(15)</b> ENGLISH (ED) [BEd (Gen Ed) (Foundation Phase) (FP)]..... Yearbook p.95
<b>484(15)</b> ENGLISH (ED) [BEd (Gen Ed) (Foundation Phase) (FP)]..... Yearbook p.95
<b>278(5)</b> ENGLISH AS LANGUAGE OF LEARNING AND TEACHING (Intermediate and Senior Phases) (ISP) [BEd (Gen Ed)]..... Yearbook p.94

## FACULTY OF ENGINEERING (E)

\*Take note that some of the courses are offered in English with the use of interpreters as indicated by "(interpreting)" in the yearbook.

### DEPARTMENT OF CIVIL ENGINEERING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>314(15)</b> Engineering Informatics: <i>Object Modelling of Physical Problems</i> ..... Yearbook p.56	<b>254(15)</b> Building Materials: <i>Basic Building Materials Practice</i> ..... Yearbook p.41
<b>324(15)</b> Geotechnique: <i>Geotechnical Theories</i> ..... Yearbook p.61	<b>244(15)</b> Engineering Informatics: <i>Object Oriented Programming and Modelling</i> ..... Yearbook p.55
<b>324(15)</b> Hydraulics: <i>Flow Theory and Pipe Flow</i> ..... Yearbook p.62-63	<b>354(15)</b> Geotechnique: <i>Sliding Resistance, Retaining Walls, Foundations and Slopes</i> ..... Yearbook p.61
<b>214(15)</b> Land Surveying: <i>Surveying</i> ..... Yearbook p.66	<b>354(15)</b> Hydraulics: <i>Open Channel Flow and Water Treatment</i> ..... Yearbook p.63
<b>224(15)</b> Strength of Materials: <i>Stress Analysis</i> ..... Yearbook p.79	<b>458(28)</b> Thesis (Civil Engineering): <i>Project (Civil)</i> ..... Yearbook p.75
<b>324(15)</b> Structures: <i>Introduction to Continuum Mechanics</i> ..... Yearbook p.82	<b>458(30)</b> Project (Civil Engineering): <i>Project (Civil)</i> ..... Yearbook p.76
	<b>143(15)</b> Strength of Materials: <i>Introduction: Mechanics of Deformable Bodies</i> ..... Yearbook p.78
	<b>254(15)</b> Strength of Materials: <i>Structural Analysis</i> ..... Yearbook p.79
	<b>354(15)</b> Structural Design: <i>Concrete Construction</i> ..... Yearbook p.80
	<b>354(15)</b> Structures: <i>Finite Element Methods</i> ..... Yearbook p.83
	<b>354(15)</b> Transport Science: <i>Transportation Engineering</i> ..... Yearbook p.84
	<b>241(0)</b> Vacation Training..... Yearbook p.85
	<b>342(0)</b> Vacation Training..... Yearbook p.85

### DEPARTMENT OF ENGINEERING (ADMIN)

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>113(12)</b> Professional Communication..... Yearbook p.76	



**Full year course**

176(12) Language Skills (English) ..... Yearbook p.67

**DEPARTMENT OF PROCESS ENGINEERING**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
324(15) Biology (Eng): <i>Biotechnology</i> ..... Yearbook p.41	254(15) Chemical Engineering: <i>Mass and Energy Balances</i> ..... Yearbook p.42
224(15) Chemical Engineering: <i>Chemical Engineering Principles and Processes</i> ..... Yearbook p.41	264(15) Chemical Engineering: <i>Fluid Mechanics for Chemical Engineers</i> ..... Yearbook p.42
316(15) Chemical Engineering: <i>Reaction Engineering</i> ..... Yearbook p.42	344(15) Chemical Engineering: <i>Modelling and Optimisation</i> ..... Yearbook p.43
317(15) Chemical Engineering: <i>Thermodynamics</i> ..... Yearbook p.43	354(15) Chemical Engineering: <i>Reaction Engineering II</i> ..... Yearbook p.43
426(15) Chemical Engineering: <i>Process Control</i> ..... Yearbook p.44	367(15) Chemical Engineering: <i>Mass transfer operations</i> ..... Yearbook p.44
123(15) Engineering Chemistry: <i>Chemistry for Engineering students</i> ..... Yearbook p.54	244(15) Chemical Engineering D: <i>Experimental Design</i> ..... Yearbook p.45
326(15) Heat Transfer A: <i>Heat Transfer</i> ..... Yearbook p.61-62	356(15) Chemical Engineering D: <i>Pilot Plant Laboratory</i> ..... Yearbook p.45-46
415(15) Extraction Processes ..... Yearbook p.72	345(15) Mineral Processing ..... Yearbook p.71-72
316(15) Particle Technology ..... Yearbook p.74	361(0) Vacation Training (Chemical) ..... Yearbook p.86

**Full year course**

478(30) Chemical Engineering: *Final-year Project* ..... Yearbook p.45

478(30) Final-year Project ..... Yearbook p.72

**DEPARTMENT OF ELECTRIC AND ELECTRONIC ENGINEERING**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
214(15) Computer Systems: <i>Introduction to Computer Systems</i> ..... Yearbook p.48	143(12) Computer Programming ..... Yearbook p.46-47
314(15) Control Systems ..... Yearbook p.49	245(15) Computer Systems: <i>Microprocessors</i> ..... Yearbook p.48
314(15) Design (E): <i>Digital Design</i> ..... Yearbook p.50	344(15) Control Systems ..... Yearbook p.49
324(15) Electrical Drive Systems: <i>Principles of Electrical Machines and Power Electronics</i> ..... Yearbook p.50-51	354(18) Control Systems: <i>Design of Control Systems for Mechanical and Mechatronic Systems</i> ..... Yearbook p.49
314(15) Electromagnetics ..... Yearbook p.51	344(15) Electromagnetics ..... Yearbook p.51
315(15) Electronics ..... Yearbook p.51	245(15) Electronics ..... Yearbook p.51

**214(14)** Electrotechnique: *Electro-techniques*  
..... **Yearbook p.52**

**214(15)** Systems and Signals: *Introduction to Systems and Signals*  
..... **Yearbook p.81**

**315(15)** Systems and Signals: *Signal Theory*  
..... **Yearbook p.81**

**414(15)** Systems and Signals: *Signal Processing*  
..... **Yearbook p.82**

**143(15)** Electrotechnique: *Introduction to Circuit Theory and Electrical Machines*  
..... **Yearbook p.52**

**365(15)** Electronics  
..... **Yearbook p.52**

**244(15)** Energy Systems: *Electrical Energy Systems*  
..... **Yearbook p.53**

**344(15)** Energy Systems: *Energy Conversion*  
..... **Yearbook p.53**

**244(15)** Systems and Signals: *Frequency Domain Techniques*  
..... **Yearbook p.81**

**344(15)** Systems and Signals: *Stochastic Signals*  
..... **Yearbook p.81**

## DEPARTMENT OF MECHANICAL AND MECHATRONIC ENGINEERING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

### First semester course

**123(15)** Engineering Drawings: *Orthographic Drawings*  
..... **Yearbook p.54**

**414(15)** Finite Element Methods: *Finite Element Methods*  
..... **Yearbook p.60**

**414(15)** Food Factory Machinery: *Food Engineering Fundamentals*  
..... **Yearbook p.60**

**414(15)** Heat Transfer A: *Heat Transfer* .... **Yearbook p.62**

**314(15)** Machine Design A: *Fatigue, Fracture Mechanics and Machine Components*  
..... **Yearbook p.67**

**334(18)** Modelling: *Modelling and Simulation of Mechanical Systems*  
..... **Yearbook p.72-73**

**414(15)** Numerical Fluid Dynamics ..... **Yearbook p.73**

**334(15)** Strength of Materials W: *Fracture Analysis, FEM and Composite Materials*  
..... **Yearbook p.80**

**214(15)** Thermodynamics A: *Applied Thermodynamics A*  
..... **Yearbook p.83**

**214(15)** Thermofluid Dynamics: *Introductory Thermofluid Dynamics*  
..... **Yearbook p.83**

**211(0)** Workshop Practice: *Practical Workshop Training*  
..... **Yearbook p.87**

### Second semester course

**354(18)** Design of Control Systems for Mechanical and Mechatronic Systems  
..... **Yearbook p.49**

**244(15)** Fluid Mechanics: *First Course in Fluid Mechanics*  
..... **Yearbook p.60**

**444(15)** Food Factory Machinery: *Food Process Engineering*  
..... **Yearbook p.60-61**

**244(15)** Introductory Machine Design: *Design process, Machine parts and Machine drawing*..... **Yearbook p.66**

**344(15)** Machine Design B: *Design of Machine Subsystems*  
..... **Yearbook p.68**

**244(15)** Materials Science A ..... **Yearbook p.69**

**244(15)** Strength of Materials W: *Displacements, Failure Criteria, Stress and Strain Transformation*  
..... **Yearbook p.79**

**344(15)** Thermofluid Dynamics: *Thermodynamics and Fluid Dynamics*  
..... **Yearbook p.84**

**341(0)** Vacation Training (Mechanical and Mechatronic)  
..... **Yearbook p.85**

**441(0)** Vacation Training (Mechanical and Mechatronic)  
..... **Yearbook p.86**

**354(12)** Vibration and Noise: *Vibration and Noise of Mechanical Systems*  
..... **Yearbook p.86**

**241(0)** Workshop Practice: *Practical Workshop Training*

**DEPARTMENT OF INDUSTRIAL ENGINEERING**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>212(8)</b> Engineering Economy: <i>Engineering Economics</i> ..... Yearbook p.55	<b>354(15)</b> Engineering Economy: <i>Engineering Economics</i> ..... Yearbook p.55
<b>212(8)</b> Production Management: <i>Production and Operational Management</i> ..... Yearbook p.75	<b>354(15)</b> Industrial Management..... Yearbook p.65
<b>314(15)</b> Production Management: <i>Operations Facilities and Management</i> ..... Yearbook p.75	<b>244(15)</b> Industrial Programming..... Yearbook p.65
	<b>244(15)</b> Manufacturing Processes..... Yearbook p.68
	<b>345(15)</b> Operations Research (Eng): <i>Operations Research (Deterministic Models)</i> ..... Yearbook p.73
	<b>344(15)</b> Quality Assurance..... Yearbook p.77
	<b>351(0)</b> Vacation Training (Industrial Engineering) ..... Yearbook p.85-86
	<b>451(0)</b> Vacation Training (Industrial Engineering) ..... Yearbook p.86

**DEPARTMENT OF EARTH SCIENCES**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>214(15)</b> Engineering Geology: <i>Geology for Civil Engineers</i> ..... Yearbook p.55	

**DEPARTMENT OF MATHEMATICAL SCIENCES**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>116(8)</b> University Practice in the Natural Sciences ..... Yearbook p.84	

**Full year course**

**197(8)** Engineering Mathematics for EDP students..... Yearbook p.57  
**198(8)** Engineering Mathematics for EDP students..... Yearbook p.57

**DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
<b>314(15)</b> Engineering Statistics..... Yearbook p.57-58	

**DEPARTMENT OF PHILOSOPHY AND THE FACULTY OF ENGINEERING**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

**First semester course****Second semester course****314(12)** Philosophy and Ethics.....**Yearbook p.74****Mainstream Courses offered in the T-option at Stellenbosch University****FACULTY OF ARTS AND SOCIAL SCIENCES (T-OPTION)****DEPARTMENT OF AFRICAN LANGUAGES**[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)**First semester course****Second semester course****114(12)** African Languages: *Introductory Study of African Languages*.....**Yearbook p.179****144(12)** African Languages: *Continued Introductory Study of African Languages*.....**Yearbook p.179****214(16)** African Languages: *Intermediate Study of African Languages*.....**Yearbook p.179****144(12)** Basic Xhosa: *Introduction to Communication in Xhosa*.....**Yearbook p.180****114(12)** Basic Xhosa: *Introduction to Communication in Xhosa*.....**Yearbook p.180****244(16)** African Languages: *Continued Intermediate Study of African Languages*.....**Yearbook p.180****318(24)** African Languages: *Advanced Study of the African Languages*.....**Yearbook p.180****348(24)** African Languages: *Continued Advanced Study of African Languages*.....**Yearbook p.180****214(16)** Xhosa: *Continued Xhosa Language and Culture*.....**Yearbook p.181****244(16)** Xhosa: *Continued Xhosa Language and Culture*.....**Yearbook p.181****318(24)** Xhosa: *Advanced Xhosa Language and Culture*.....**Yearbook p.182****348(24)** Xhosa: *Advanced Xhosa Language and Culture*.....**Yearbook p.182****Full year course****178(24)** Xhosa: *Introduction to Xhosa language and Culture*.....**Yearbook p.181****DEPARTMENT OF ANCIENT STUDIES**[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)**First semester course****Second semester course****114(12)** Ancient Cultures: *Introduction to the Ancient World I*.....**Yearbook p.187****144(12)** Ancient Cultures: *Introduction to the Ancient World II*.....**Yearbook p.187****211(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****241(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****212(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****242(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****221(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****251(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****222(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187****252(8)** Ancient Cultures: *Continued Ancient Cultures*.....**Yearbook p.187**

<b>311(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.187</b>	<b>341(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.188</b>
<b>312(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.187</b>	<b>342(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.188</b>
<b>321(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.187</b>	<b>351(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.188</b>
<b>322(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.188</b>	<b>352(12)</b> Ancient Cultures: <i>Advanced Ancient Cultures</i> ..... <b>Yearbook p.188</b>
<b>214(16)</b> Biblical Hebrew: <i>Continued Biblical Hebrew Language and Text Study</i> ..... <b>Yearbook p.188</b>	<b>244(16)</b> Biblical Hebrew: <i>Continued Biblical Hebrew Language and Text Study</i> ..... <b>Yearbook p.188</b>
<b>314(12)</b> Biblical Hebrew: <i>Advanced Study of Biblical Hebrew Language and Literature</i> ..... <b>Yearbook p.189</b>	<b>344(12)</b> Biblical Hebrew: <i>Advanced Biblical Hebrew Language and Literature Study</i> ..... <b>Yearbook p.189</b>
<b>324(12)</b> Biblical Hebrew: <i>Advanced Study of Biblical Hebrew Language and Literature</i> ..... <b>Yearbook p.189</b>	<b>354(12)</b> Biblical Hebrew: <i>Advanced Biblical Hebrew Language and Literature</i> ..... <b>Yearbook p.189</b>
<b>214(16)</b> Greek: <i>Continued Ancient Greek Language and Text Study</i> ..... <b>Yearbook p.190</b>	<b>244(16)</b> Greek: <i>Continued Ancient Greek Language and Text Study</i> ..... <b>Yearbook p.190</b>
<b>314(12)</b> Greek: <i>Advanced Ancient Greek Language and Literature</i> ..... <b>Yearbook p.190</b>	<b>344(12)</b> Greek: <i>Advanced Study of Ancient Greek Language and Literature</i> ..... <b>Yearbook p.190</b>
<b>324(12)</b> Greek: <i>Advanced Study of Ancient Greek Language and Literature</i> ..... <b>Yearbook p.190</b>	<b>354(12)</b> Greek: <i>Advanced Study of Ancient Greek Language and Literature</i> ..... <b>Yearbook p.190</b>
<b>114(12)</b> Classical Legal Culture: <i>Development of Roman Law in Historical Context</i> ..... <b>Yearbook p.190</b>	<b>144(12)</b> Classical Legal Culture: <i>Development of Roman Law and its Legacy</i> ..... <b>Yearbook p.191</b>
<b>214(16)</b> Latin: <i>Continued Latin Grammar and Literature</i> ..... <b>Yearbook p.191</b>	<b>244(16)</b> Latin: <i>Continued Latin Grammar and Literature</i> ..... <b>Yearbook p.191</b>
<b>318(24)</b> Latin: <i>Advanced Latin Literature</i> ..... <b>Yearbook p.191</b>	<b>348(24)</b> Latin: <i>Advanced Latin Literature</i> ..... <b>Yearbook p.191</b>

#### Full year course

<b>178(24)</b> Biblical Hebrew: <i>Introduction to Biblical Hebrew</i> .....	<b>Yearbook p.188</b>
<b>178(24)</b> Greek: <i>Introduction to ancient Greek Grammar and Translation</i> .....	<b>Yearbook p.189</b>
<b>178(24)</b> Latin: <i>Latin Grammar and Literature for Beginners</i> .....	<b>Yearbook p.191</b>

#### DEPARTMENT OF DRAMA

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### First semester course

<b>114(12)</b> Theatre Studies: <i>Introduction to Western theatre and principles of text study</i> .....	<b>Yearbook p.194</b>
<b>212(8)</b> Theatre Studies: <i>Textual analysis</i> .....	<b>Yearbook p.194</b>
<b>222(8)</b> Theatre Studies: <i>Theatre history: theory and forms of drama and theatre</i> .....	<b>Yearbook p.195</b>

#### Second semester course

<b>144(12)</b> Theatre Studies: <i>Continued study of Western theatre and principles of text study</i> .....	<b>Yearbook p.194</b>
<b>242(8)</b> Theatre Studies: <i>Textual analysis</i> .....	<b>Yearbook p.195</b>
<b>252(8)</b> Theatre Studies: <i>Theatre history: theory and forms of drama and theatre</i> .....	<b>Yearbook p.195</b>

<b>314(12)</b> Theatre Studies: <i>Textual analysis: media and film</i> ..... <b>Yearbook p.195</b>	<b>344(12)</b> Theatre Studies: <i>Textual analysis: media and film</i> ..... <b>Yearbook p.195</b>
<b>324(12)</b> Theatre Studies: <i>History and nature of non-Western theatre</i> ..... <b>Yearbook p.195</b>	<b>354(12)</b> Theatre Studies: <i>History and nature of South African theatre</i> ..... <b>Yearbook p.195</b>

#### Full year course

<b>178(24)</b> Theatre Arts: <i>Introduction to acting and stage skills</i> ..... <b>Yearbook p.192</b>
<b>278(32)</b> Theatre Arts: <i>Acting and production</i> ..... <b>Yearbook p.192</b>
<b>288(32)</b> Theatre Arts: <i>Theatre design and production</i> ..... <b>Yearbook p.193</b>
<b>379(48)</b> Theatre Arts: <i>Acting and production</i> ..... <b>Yearbook p.193</b>
<b>389(48)</b> Theatre Arts: <i>Theatre design and production</i> ..... <b>Yearbook p.193</b>
<b>298(32)</b> Theatre Practice: <i>Theatre management and marketing</i> ..... <b>Yearbook p.193</b>
<b>178(24)</b> Theatre Skills: <i>Theatre techniques</i> ..... <b>Yearbook p.193</b>
<b>278(32)</b> Theatre Skills: <i>Speech and movement</i> ..... <b>Yearbook p.194</b>
<b>288(32)</b> Theatre Skills: <i>Stage management and media techniques</i> ..... <b>Yearbook p.194</b>
<b>378(24)</b> Theatre Skills: <i>Speech and movement</i> ..... <b>Yearbook p.194</b>
<b>388(24)</b> Theatre Skills: <i>Stage management and media</i> ..... <b>Yearbook p.194</b>

#### DEPARTMENT OF GENERAL LINGUISTICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### Full year course

<b>178(24)</b> Introduction to Linguistics ..... <b>Yearbook p.197</b>
<b>278(32)</b> Language and the Human Mind ..... <b>Yearbook p.197</b>
<b>379(48)</b> Advanced Linguistics ..... <b>Yearbook p.197</b>

#### DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL STUDIES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>124(16)</b> Geo-Environmental Science: <i>Introduction to Human-Environmental Systems</i> ..... <b>Yearbook p.199</b>	<b>154(16)</b> Geo-Environmental Science: <i>Introduction to Earth Systems Science</i> ..... <b>Yearbook p.199</b>
<b>225(16)</b> Geography and Environmental Studies: <i>Urban and Tourism Development</i> ..... <b>Yearbook p.199</b>	<b>265(16)</b> Geography and Environmental Studies: <i>Environmental Studies</i> ..... <b>Yearbook p.199</b>
<b>314(12)</b> Geography and Environmental Studies: <i>Geography of Tourism</i> ..... <b>Yearbook p.199</b>	<b>358(16)</b> Geography and Environmental Studies: <i>Environmental Studies</i> ..... <b>Yearbook p.200</b>
<b>323(12)</b> Geography and Environmental Studies: <i>The South African City</i> ..... <b>Yearbook p.200</b>	

#### DEPARTMENT OF HISTORY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>114(12)</b> Introduction to the main global patterns and developments in history ..... <b>Yearbook p.200</b>	<b>144(12)</b> Survey of South African History ..... <b>Yearbook p.201</b>
<b>214(16)</b> Key Processes in the making of Western History ..... <b>Yearbook p.201</b>	<b>244(16)</b> Africa and South Africa: Colonisation and the Rearrangement of Societies ..... <b>Yearbook p.201</b>
<b>318(24)</b> Wars, Decolonisation and Globalisation	<b>348(24)</b> South Africa in the 20th Century

**DEPARTMENT OF INFORMATION SCIENCE**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>224(16)</b> Socio-Informatics: <i>Introduction to Computer Programming</i> ..... <b>Yearbook p.202</b>	<b>254(16)</b> Socio-Informatics: <i>Internet Technology and Design</i> ..... <b>Yearbook p.202</b>
<b>314(18)</b> Socio-Informatics: <i>Database Systems</i> ..... <b>Yearbook p.203</b>	<b>262(8)</b> Socio-Informatics: <i>Electronic Business and Government</i> ..... <b>Yearbook p.202</b>
<b>334(18)</b> Socio-Informatics: <i>Architecture of Information Systems and Enterprises</i> ..... <b>Yearbook p.203</b>	<b>354(18)</b> Socio-Informatics: <i>Information Systems</i> ..... <b>Yearbook p.203</b>
<b>212(8)</b> Decision-making and value studies: <i>Values of the Knowledge Economy and Society</i> ..... <b>Yearbook p.203</b>	<b>364(18)</b> Socio-Informatics: <i>Knowledge Dynamics and Knowledge Management</i> ..... <b>Yearbook p.203</b>
<b>222(8)</b> Decision-making and value studies: <i>Decision-making Theory and Decision Support</i> ..... <b>Yearbook p.203</b>	<b>242(8)</b> Decision-making and value studies: <i>Decision-making and Leadership</i> ..... <b>Yearbook p.203</b>
<b>324(12)</b> Decision-making and value studies: <i>Decision-making and analysis</i> ..... <b>Yearbook p.204</b>	<b>252(8)</b> Decision-making and value studies: <i>Decision-making and organisation I</i> ..... <b>Yearbook p.204</b>
	<b>344(12)</b> Decision-making and value studies: <i>Sense-making, Decision-making and Scenario-building</i> ..... <b>Yearbook p.204</b>
	<b>354(12)</b> Decision-making and value studies: <i>Decision-making and organisation II</i> ..... <b>Yearbook p.204</b>

**Full year course**

**378(18)** Capstone Module: *Professional Practice and Theory*..... **Yearbook p.204**

**DEPARTMENT OF MUSIC**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>112(6)</b> Music Technology (Introductory)..... <b>Yearbook p.223</b>	<b>142(6)</b> Music Technology (Introductory)..... <b>Yearbook p.223</b>
<b>122(12)</b> Music Technology..... <b>Yearbook p.223</b>	<b>152(12)</b> Music Technology..... <b>Yearbook p.223</b>
<b>222(8)</b> Music Technology..... <b>Yearbook p.223</b>	<b>252(8)</b> Music Technology..... <b>Yearbook p.223</b>
<b>112(8)</b> Musicology..... <b>Yearbook p.223</b>	<b>142(8)</b> Musicology..... <b>Yearbook p.224</b>
<b>212(8)</b> Musicology..... <b>Yearbook p.224</b>	<b>242(8)</b> Musicology..... <b>Yearbook p.224</b>
<b>314(12)</b> Musicology..... <b>Yearbook p.224</b>	<b>344(12)</b> Musicology..... <b>Yearbook p.224</b>
<b>414(12)</b> Musicology..... <b>Yearbook p.224</b>	<b>444(12)</b> Musicology..... <b>Yearbook p.224</b>
<b>324(12)</b> Musicological Criticism..... <b>Yearbook p.224</b>	<b>344(12)</b> Musicological Criticism..... <b>Yearbook p.224</b>

<b>424(12)</b> Musicological Criticism.....	<b>Yearbook p.224</b>	<b>444(12)</b> Musicological Criticism.....	<b>Yearbook p.224</b>
<b>212(6)</b> Teaching Method.....	<b>Yearbook p.233</b>	<b>242(6)</b> Repertoire Study.....	<b>Yearbook p.233</b>
<b>222(6)</b> Teaching Method (Second instrument) .....	<b>Yearbook p.233</b>	<b>152(8)</b> Theory of Music.....	<b>Yearbook p.234</b>
<b>122(8)</b> Theory of Music.....	<b>Yearbook p.234</b>	<b>252(8)</b> Theory of Music.....	<b>Yearbook p.235</b>
<b>222(8)</b> Theory of Music.....	<b>Yearbook p.234</b>	<b>354(12)</b> Theory of Music.....	<b>Yearbook p.235</b>
<b>324(12)</b> Theory of Music.....	<b>Yearbook p.235</b>	<b>454(12)</b> Theory of Music.....	<b>Yearbook p.235</b>
<b>424(12)</b> Theory of Music.....	<b>Yearbook p.235</b>		

**Full year course**

<b>171(8)</b> Aural Training.....	<b>Yearbook p.221</b>
<b>271(8)</b> Aural Training.....	<b>Yearbook p.221</b>
<b>474(12)</b> Business Management (Music).....	<b>Yearbook p.221</b>
<b>284(12)</b> Church Music Practice.....	<b>Yearbook p.221</b>
<b>384(12)</b> Church Music Practice.....	<b>Yearbook p.221</b>
<b>484(12)</b> Church Music Practice.....	<b>Yearbook p.221</b>
<b>379(48)</b> Composition.....	<b>Yearbook p.221</b>
<b>479(60)</b> Composition.....	<b>Yearbook p.221</b>
<b>476(12)</b> Creative Skills.....	<b>Yearbook p.222</b>
<b>274(12)</b> Ensemble Singing: <i>Vocal Ensemble</i> .....	<b>Yearbook p.222</b>
<b>374(12)</b> Ensemble Singing: <i>Vocal Ensemble</i> .....	<b>Yearbook p.222</b>
<b>474(12)</b> Ensemble Singing: <i>Vocal Ensemble</i> .....	<b>Yearbook p.222</b>
<b>376(24)</b> Ethnomusicology.....	<b>Yearbook p.222</b>
<b>476(12)</b> Ethnomusicology.....	<b>Yearbook p.222</b>
<b>194(12)</b> Language for Singers.....	<b>Yearbook p.222</b>
<b>294(12)</b> Language for Singers.....	<b>Yearbook p.222</b>
<b>178(16)</b> Music Education.....	<b>Yearbook p.222</b>
<b>278(16)</b> Music Education.....	<b>Yearbook p.223</b>
<b>378(24)</b> Music Education.....	<b>Yearbook p.223</b>
<b>478(24)</b> Music Education.....	<b>Yearbook p.223</b>
<b>379(48)</b> Music Technology.....	<b>Yearbook p.223</b>
<b>479(60)</b> Music Technology.....	<b>Yearbook p.223</b>
<b>171(6)</b> Musicology (Music Skills).....	<b>Yearbook p.224</b>
<b>271(8)</b> Musicology (Music Skills).....	<b>Yearbook p.224</b>
<b>184(12)</b> Orchestral Practice.....	<b>Yearbook p.224</b>
<b>284(12)</b> Orchestral Practice.....	<b>Yearbook p.224</b>
<b>384(12)</b> Orchestral Practice.....	<b>Yearbook p.225</b>
<b>484(12)</b> Orchestral Practice.....	<b>Yearbook p.225</b>
<b>388(24)</b> Orchestration.....	<b>Yearbook p.225</b>
<b>488(24)</b> Orchestration.....	<b>Yearbook p.225</b>
<b>394(12)</b> Repertoire Study.....	<b>Yearbook p.233</b>
<b>494(12)</b> Repertoire Study.....	<b>Yearbook p.233</b>
<b>474(12)</b> Research Methodology (Music).....	<b>Yearbook p.233</b>
<b>496(12)</b> Service learning module.....	<b>Yearbook p.233</b>
<b>394(12)</b> Teaching Method: <i>Theory of Music</i> .....	<b>Yearbook p.233</b>
<b>494(12)</b> Teaching Method: <i>Theory of Music</i> .....	<b>Yearbook p.233</b>
<b>374(12)</b> Teaching Method.....	<b>Yearbook p.234</b>
<b>376(12)</b> Teaching Method (Second instrument).....	<b>Yearbook p.234</b>



474(12) Teaching Method.....	Yearbook p.234
476(12) Teaching Method (Second instrument) .....	Yearbook p.234
476(12) Teaching Practice.....	Yearbook p.234
394(12) Theatre Skills (Music).....	Yearbook p.234
494(12) Theatre Skills (Music).....	Yearbook p.234

## DEPARTMENT OF PHILOSOPHY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
112(6) Introduction to Philosophy and Ethics ..... Yearbook p.235	142(6) Practical Logic and Critical Thinking Skills ..... Yearbook p.236
122(6) Greek Philosophy and Philosophy of the Middle Ages..... Yearbook p.235	152(6) Philosophical Anthropology..... Yearbook p.236
212(8) Political Philosophy..... Yearbook p.236	162(6) Philosophy of Art..... Yearbook p.236
222(8) Modern Philosophy..... Yearbook p.236	242(8) Philosophy of Religion..... Yearbook p.236
314(12) Critical Social Theory and Ideology Critique ..... Yearbook p.237	252(8) Philosophy of Culture..... Yearbook p.236
324(12) Phenomenology and Existentialism ..... Yearbook p.237	262(8) Philosophy of Science..... Yearbook p.236
334(12) Philosophy of Language..... Yearbook p.237	344(12) Deconstruction..... Yearbook p.237
314(12) Philosophy and Ethics (Engineering students) ..... Yearbook p.238	354(12) Analytic Philosophy..... Yearbook p.237
	364(12) Ethics of social justice..... Yearbook p.237

### Full year course

474(12) Philosophy and Ethics (Engineering students).....	Yearbook p.238
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## DEPARTMENT OF POLITICAL SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
112(6) Introduction to Political Science ..... Yearbook p.239	142(6) South African Politics..... Yearbook p.239
122(6) International Relations..... Yearbook p.239	152(6) Introduction to African Politics..... Yearbook p.239
212(8) Political Behaviour..... Yearbook p.239	242(8) State, Economy and Development ..... Yearbook p.239
222(8) The Global Political Economy..... Yearbook p.239	252(8) Democratic Political Systems..... Yearbook p.240
232(8) Foreign Policy..... Yearbook p.239	262(8) Global Governance..... Yearbook p.240
314(12) Political Development and Transformation ..... Yearbook p.240	344(12) Public Policy..... Yearbook p.240
315(12) Political Conflict..... Yearbook p.240	354(12) Modern Political Ideologies..... Yearbook p.240
324(12) Comparative Southern African Politics	364(12) International Relations of Africa

**334(12)** Political Economy of Asia and Other Regions

Yearbook p. 240

## DEPARTMENT OF PSYCHOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

### First semester course

**114(12)** Psychology as a Science..... Yearbook p.241

**212(8)** Approaches to Psychological Theories of the Person..... Yearbook p.241

**222(8)** Social Psychology ..... Yearbook p.241

**318(24)** Research Methods and Data analysis in Psychology..... Yearbook p.242

### Second semester course

**144(12)** Psychology in Context..... Yearbook p.241

**242(8)** Human Development in Context ..... Yearbook p.241

**252(8)** Psychopathology ..... Yearbook p.241

**348(24)** Psychological Interventions ..... Yearbook p.242

## DEPARTMENT OF SOCIAL WORK

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

### Full year course

**178(24)** Introduction to Social Work (Theory)..... Yearbook p.242

**188(24)** Introduction to Social Work (Practice Education)..... Yearbook p.242

**278(32)** Methodology of Social Work (Theory)..... Yearbook p.242

**288(32)** Methodology of Social Work (Practice Education) ..... Yearbook p.242

**378(48)** Intervention in Social Work (Theory)..... Yearbook p.243

**388(48)** Intervention in Social Work (Practice Education) ..... Yearbook p.243

**478(75)** Integrated Social Work (Theory)..... Yearbook p.243

**488(75)** Integrated Social Work (Practice Education)..... Yearbook p.243

## DEPARTMENT OF SOCIOLOGY AND SOCIAL ANTHROPOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

### First semester course

**114(12)** Sociology: *Introduction to Sociology and Social Anthropology*..... Yearbook p.244

**212(8)** Sociology: *Poverty, Inequality and Development* ..... Yearbook p.244

**222(8)** Sociology: *Race* ..... Yearbook p.244

**314(12)** Sociology: *Sociological Theory*... Yearbook p.244

**324(12)** Sociology: *Political Sociology*.... Yearbook p.244

**334(12)** Sociology: *Introduction to Environmental Sociology*..... Yearbook p.245

**212(8)** Social Anthropology: *Social-anthropological Themes*..... Yearbook p.245

### Second semester course

**144(12)** Sociology: *Social issues in South Africa* ..... Yearbook p.244

**242(8)** Sociology: *Sociology of Communication* ..... Yearbook p.244

**252(8)** Sociology: *Industrial Sociology* ..... Yearbook p.244

**344(12)** Sociology: *Sociology of Work and Employment* ..... Yearbook p.245

**354(12)** Sociology: *Community Development*..... Yearbook p.245

**364(12)** Sociology: *Social Research* ..... Yearbook p.245

**242(8)** Social Anthropology: *Public Anthropology*

<b>222(8)</b> Social Anthropology: <i>Medical Anthropology</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>
<b>314(12)</b> Social Anthropology: <i>Reading and Doing Ethnography</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>
<b>324(12)</b> Social Anthropology: <i>Culture, Power and Identity</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>
<b>252(8)</b> Social Anthropology: <i>South African Anthropology</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>
<b>344(12)</b> Social Anthropology: <i>Theories and Debates in Social Anthropology</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>
<b>354(12)</b> Social Anthropology: <i>The Anthropology of Development</i> .....	<b>Yearbook p.246</b>
.....	<b>Yearbook p.246</b>

## DEPARTMENT OF VISUAL ARTS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>311(6)</b> Elementary Photography: <i>Development of Photographic skills</i> .....	<b>341(6)</b> Supportive Techniques: <i>Sculptural Design</i> .....
<b>Yearbook p. 247</b>	<b>Yearbook p. 251</b>

### Full year course

<b>271(10)</b> Digital Production.....	<b>Yearbook p.246</b>
<b>371(10)</b> Digital Production.....	<b>Yearbook p.246</b>
<b>274(16)</b> Drawing: <i>Object and Figure Drawing in Different Mediums</i> .....	<b>Yearbook p. 247</b>
<b>374(18)</b> Drawing: <i>Visual Investigation by means of a Variety of Drawing Processes</i> .....	<b>Yearbook p. 247</b>
<b>278(48)</b> Fine Art: <i>Investigation of Two- and Three-dimensional Art-making Processes</i> .....	<b>Yearbook p. 247</b>
<b>379(66)</b> Fine Art: <i>Investigation of Two- and Three-dimensional Art-making Processes</i> .....	<b>Yearbook p. 247</b>
<b>479(100)</b> Fine Art: <i>Investigation of Two- and Three-dimensional Art-making Processes</i> .....	<b>Yearbook p. 247</b>
<b>278(32)</b> Gemmology.....	<b>Yearbook p. 247</b>
<b>278(30)</b> Graphic design: <i>Analysis and application of Graphic Design concepts</i> .....	<b>Yearbook p. 248</b>
<b>378(32)</b> Graphic design: <i>Analysis and application of advanced Graphic Design concepts</i> .....	<b>Yearbook p. 248</b>
<b>479(48)</b> Graphic design: <i>Application of advanced Graphic Design concepts</i> .....	<b>Yearbook p. 248</b>
<b>278(30)</b> Interdisciplinary Visual Studies: <i>Photography, Graphic Techniques for Illustration, New Media and Printmaking</i> .....	<b>Yearbook p. 248</b>
<b>378(32)</b> Interdisciplinary Visual Studies: <i>Photography, Graphic Techniques for Illustration, New Media and Printmaking</i> .....	<b>Yearbook p. 248</b>
<b>479(48)</b> Interdisciplinary Visual Studies: <i>Photography, Graphic Techniques for Illustration, New Media and Printmaking</i> .....	<b>Yearbook p. 249</b>
<b>178(36)</b> Investigation of Visual Art Concepts: <i>Basic Analysis and Application of Visual Art Concepts</i> .....	<b>Yearbook p. 249</b>
<b>188(36)</b> Investigation of Visual Art Concepts: <i>Basic Analysis and Application of Visual Art Concepts</i> .....	<b>Yearbook p. 249</b>
<b>274(16)</b> Jewellery Design: <i>Analytical Investigation of Concepts of Jewellery</i> .....	<b>Yearbook p. 249</b>
<b>374(24)</b> Jewellery Design: <i>Analytical Investigation of Concepts of Jewellery</i> .....	<b>Yearbook p. 249</b>
<b>474(24)</b> Jewellery Design: <i>Analytical Investigation of Concepts of Jewellery</i> .....	<b>Yearbook p. 250</b>
<b>272(8)</b> Metal Techniques: <i>Introduction to Basic Metal Techniques</i> .....	<b>Yearbook p. 250</b>
<b>372(12)</b> Metal Techniques: <i>Advanced Technical Methods and Construction</i> .....	<b>Yearbook p. 250</b>
<b>472(12)</b> Metal Techniques: <i>Investigation of Ancient Techniques and Methods</i> .....	<b>Yearbook p. 250</b>
<b>371(6)</b> Teaching Methods of Art: <i>Developmental Stages in Children's Art</i> .....	<b>Yearbook p. 250</b>
<b>472(12)</b> Teaching Methods of Art: <i>Practical and Theoretical Art Lesson, Curriculum Studies</i> .....	<b>Yearbook p. 251</b>
<b>278(32)</b> Production Techniques (Jewellery): <i>Methodical Realisation of Jewellery Designs</i> .....	<b>Yearbook p. 251</b>
<b>378(36)</b> Production Techniques (Jewellery): <i>Methodical Realisation of Jewellery Designs</i> .....	<b>Yearbook p. 251</b>
<b>479(48)</b> Production Techniques (Jewellery): <i>Methodical Realisation of Jewellery Designs</i> .....	<b>Yearbook p. 251</b>
<b>472(12)</b> Supportive Techniques: <i>Supportive programme</i> .....	<b>Yearbook p. 251</b>
<b>479(48)</b> Theory of Art: <i>Contemporary Art and Theory</i> .....	<b>Yearbook p. 251</b>
<b>176(18)</b> Visual Studies: <i>Visual Culture and Interpretation</i> .....	<b>Yearbook p. 252</b>

<b>276(24)</b> Visual Studies: <i>19th- and 20th-Century Visual Culture</i> .....	<b>Yearbook p. 252</b>
<b>379(48)</b> Visual Studies: <i>Representation and Identity in South African Visual Culture</i> .....	<b>Yearbook p. 252</b>

### METADISCIPLINES PRESENTED BY VARIOUS DEPARTMENTS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

First semester course	Second semester course
<b>324(12)</b> Meta Science: <i>Dimensions of Historical Understanding</i> ..... <b>Yearbook p.252</b>	<b>345(12)</b> Meta Science: <i>Scientific Language Investigation as Detective Work</i> ..... <b>Yearbook p.252</b>

### LANGUAGE CENTRE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013\\_Lettere-\(Eng\).pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/web-2013_Lettere-(Eng).pdf)

#### Full year course

<b>172(8)</b> Scientific Communication Skills .....	<b>Yearbook p.254</b>
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## FACULTY OF SCIENCE (T-option)

### MODULES PRESENTED BY VARIOUS DEPARTMENTS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>111(18)</b> Biology: <i>Basic Biology</i> ..... <b>Yearbook p.61</b>	<b>146(16)</b> Biology: <i>Biosystematics</i> ..... <b>Yearbook p.61</b>
<b>312(8)</b> Bioinformatics and Mathematical Modelling of Biological Systems..... <b>Yearbook p.61</b>	<b>153(14)</b> Biology..... <b>Yearbook p.61</b>
	<b>244(16)</b> Biotechnology: <i>Introductory Biotechnology</i> ..... <b>Yearbook p.62</b>
	<b>344(16)</b> Biotechnology: <i>Economical and Legal Aspects of Biology</i> ..... <b>Yearbook p.62</b>

#### Full year course

<b>197(12)</b> Biology: <i>Biology (Medicine)</i> .....	<b>Yearbook p.62</b>
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### DEPARTMENT OF BIOCHEMISTRY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
	<b>345(16)</b> Biochemistry: <i>Specialised Biochemical Topics II</i> ..... <b>Yearbook p.62</b>

### DEPARTMENT OF BOTANY AND ZOOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>212(16)</b> Biodiversity and Ecology: <i>Statistics and Other Tools for Biologists</i> ..... <b>Yearbook p.65</b>	<b>254(16)</b> Biodiversity and Ecology: <i>Vertebrate Life</i> ..... <b>Yearbook p.66</b>
<b>224(16)</b> Biodiversity and Ecology: <i>Diversity and Function of Invertebrates</i> ..... <b>Yearbook p.66</b>	<b>264(16)</b> Biodiversity and Ecology: <i>Diversity of Plant Form and Function</i> ..... <b>Yearbook p.67</b>
<b>324(16)</b> Biodiversity and Ecology: <i>Angiosperm Diversity</i>	<b>354(16)</b> Biodiversity and Ecology: <i>Evolutionary Patterns</i>

<i>and Evolution</i> ..... Yearbook p.67	<i>and Processes</i> ..... Yearbook p.68
<b>334(16)</b> Biodiversity and Ecology: <i>Global Change Biology</i> ..... Yearbook p.67	<b>364(16)</b> Biodiversity and Ecology: <i>Conservation Biology</i> ..... Yearbook p.68

### DEPARTMENT OF CHEMISTRY AND POLYMER SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(16)</b> Chemistry: <i>Organic Chemistry</i> ..... Yearbook p.71	<b>264(16)</b> Chemistry: <i>Analytical Chemistry</i> ..... Yearbook p.71
<b>111(17)</b> Chemistry for Health Sciences ..... Yearbook p.74	<b>344(16)</b> Chemistry: <i>Organic Chemistry</i> ..... Yearbook p.72
<b>314(16)</b> Textile Science: <i>Textile Production Processes</i> ..... Yearbook p.76	<b>254(16)</b> Textile Science: <i>Fibre Science</i> ..... Yearbook p.76
	<b>344(16)</b> Textile Science: <i>Functional Textiles</i> ..... Yearbook p.76

### DEPARTMENT OF EARTH SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>324(16)</b> Geology: <i>Sedimentology and Stratigraphy</i> ..... Yearbook p.79	<b>154(16)</b> Geo-environmental Science: <i>Introduction to Earth Systems Science</i> ..... Yearbook p.76
<b>214(16)</b> Environmental Geochemistry: <i>Introduction to Environmental Geochemistry</i> ..... Yearbook p.79	<b>244(16)</b> Geology: <i>Physical Earth Sciences and Structural Geology</i> ..... Yearbook p.78
	<b>344(16)</b> Geology: <i>Economic Geology</i> ..... Yearbook p.79

### DEPARTMENT OF MATHEMATICAL SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

#### DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION MATHEMATICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

#### Full year course

<b>278(32)</b> Mathematics: <i>Foundations of Abstract Mathematics I</i> ..... Yearbook p.83
<b>378(32)</b> Mathematics: <i>Foundations of Abstract Mathematics II</i> ..... Yearbook p.85
<b>272(5)</b> Scientific Computing ..... Yearbook p.88
<b>372(5)</b> Scientific Computing ..... Yearbook p.88

#### DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION APPLIED MATHEMATICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>114(16)</b> Applied Mathematics: <i>Probability Theory and Statistics</i> ..... Yearbook p.91	<b>144(16)</b> Applied Mathematics: <i>Modelling in Mechanics</i> ..... Yearbook p.91

#### DEPARTMENT OF MATHEMATICAL SCIENCES: SUBDIVISION COMPUTER SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
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<b>114(16)</b> Computer Science: <i>Introductory Computer Science</i> ..... <b>Yearbook p.94</b>	<b>144(16)</b> Computer Science: <i>Introductory Computer Science</i> ..... <b>Yearbook p.94</b>
<b>214(16)</b> Computer Science: <i>Data Structures and Algorithms</i> ..... <b>Yearbook p.95</b>	<b>146(16)</b> Computer Science: <i>Preparatory Computer Science</i> ..... <b>Yearbook p.95</b>
<b>314(16)</b> Computer Science: <i>Concurrency</i> ..... <b>Yearbook p.95</b>	<b>244(16)</b> Computer Science: <i>Computer Architecture</i> ..... <b>Yearbook p.95</b>
<b>315(16)</b> Computer Science: <i>Machine Learning</i> ..... <b>Yearbook p.95</b>	<b>344(16)</b> Computer Science: <i>Program Design</i> ..... <b>Yearbook p.96</b>
<b>334(16)</b> Computer Science: <i>Databases and Web Centric Programming</i> ..... <b>Yearbook p.95</b>	<b>354(16)</b> Computer Science: <i>Computer Networks</i> ..... <b>Yearbook p.96</b>
	<b>364(16)</b> Computer Science: <i>Computer Vision</i> ..... <b>Yearbook p.96</b>

#### Full year course

<b>171(4)</b> Computer Skills ..... <b>Yearbook p.99</b>
<b>272(5)</b> Computer Skills ..... <b>Yearbook p.100</b>
<b>372(5)</b> Computer Skills ..... <b>Yearbook p.100</b>

#### DEPARTMENT OF MICROBIOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(16)</b> Microbiology: <i>Introductory Microbiology</i> ..... <b>Yearbook p.101</b>	<b>244(16)</b> Microbiology: <i>Microbial Diversity</i> ..... <b>Yearbook p.101</b>
<b>314(16)</b> Microbiology: <i>Microbial Molecular Biology</i> ..... <b>Yearbook p.101</b>	<b>344(16)</b> Microbiology: <i>Microbial Physiology and Metabolism (with Applied Aspects)</i> ..... <b>Yearbook p.101</b>
	<b>354(16)</b> Microbiology: <i>Industrial Microbiology</i> ..... <b>Yearbook p.101</b>

#### DEPARTMENT OF PHYSICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>114(16)</b> Physics: <i>Introductory Physics A</i> ..... <b>Yearbook p.103</b>	<b>144(16)</b> Physics: <i>Introductory Physics B</i> ..... <b>Yearbook p.103</b>
<b>214(16)</b> Physics: <i>Computational Physics A (Stochastic Simulation)</i> ..... <b>Yearbook p.104</b>	<b>244(16)</b> Physics: <i>Computational Physics B (Deterministic Simulation)</i> ..... <b>Yearbook p.104</b>
<b>224(16)</b> Physics: <i>Classical Mechanics, Wave Theory and Optics</i> ..... <b>Yearbook p.104</b>	<b>254(16)</b> Physics: <i>Electromagnetism and Introduction to Quantum Physics</i> ..... <b>Yearbook p.104</b>
<b>314(16)</b> Physics: <i>Statistical Physics A (Introductory Thermodynamics and Statistical Mechanics)</i> ..... <b>Yearbook p.104</b>	<b>342(8)</b> Physics: <i>Electromagnetism and Relativity</i> ..... <b>Yearbook p.105</b>
<b>334(16)</b> Physics: <i>Quantum Mechanics A (Quantum</i>	<b>344(16)</b> Physics: <i>Computational Physics C (Monte Carlo Methods in Physics)</i> ..... <b>Yearbook p.105</b>

*Mechanics with applications*) ..... Yearbook p.105

**352(8)** Physics: *Atomic and Nuclear Physics*  
..... Yearbook p.105

**142(8)** Special Physics: *Physics for Health Sciences*  
..... Yearbook p.112

#### Full year course

**384(16)** Physics: *Experimental Work in Physics* ..... Yearbook p.105

**372(8)** Project (Physical and Mathematical Analysis) ..... Yearbook p.113

### DEPARTMENT OF PHYSIOLOGICAL SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Science\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Science_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>114(12)</b> Physiology: <i>Introductory Overview of Physiology</i> ..... Yearbook p.113	<b>144(12)</b> Physiology: <i>Overview of Physiology</i> ..... Yearbook p.113
<b>214(16)</b> Physiology: <i>Physiological Principles and Systems</i> ..... Yearbook p.113	<b>244(16)</b> Physiology: <i>Systems in Physiology</i> ..... Yearbook p.113
<b>314(16)</b> Physiology: <i>Integrated Physiology</i> ..... Yearbook p.113	<b>344(16)</b> Physiology: <i>Cellular Physiology</i> ..... Yearbook p.114
<b>334(16)</b> Physiology: <i>Metabolic Physiology</i> ..... Yearbook p.114	<b>364(16)</b> Physiology: <i>Clinical Applied Physiology</i> ..... Yearbook p.114

### FACULTY OF LAW (T-option)

#### DEPARTMENT OF MERCANTILE LAW

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Law\\_\(Eng\)\\_WEBpdf.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Law_(Eng)_WEBpdf.pdf)

First semester course	Second semester course
<b>411(12)</b> Law of Taxation ..... Yearbook p.30	<b>441(12)</b> Accounting for Law students ..... Yearbook p.30
<b>311(12)</b> Mercantile Law: ( <i>Labour law and commercial dispute resolution</i> ) ..... Yearbook p.31	<b>441(12)</b> Law of Taxation ..... Yearbook p.30
<b>312(12)</b> Mercantile Law: ( <i>Insolvency law</i> ) ..... Yearbook p.31	<b>442(12)</b> Law of Taxation ..... Yearbook p.30
	<b>441(12)</b> Intellectual Property Law: <i>Immaterial Property Law</i> ..... Yearbook p.31
	<b>441(12)</b> Mercantile Law: ( <i>Advanced Labour Law</i> ) ..... Yearbook p.31
	<b>442(12)</b> Mercantile Law: ( <i>Commercial Dispute Resolution</i> ) ..... Yearbook p.31
	<b>443(12)</b> Mercantile Law: ( <i>Advanced Company Law</i> ) ..... Yearbook p.31
	<b>444(12)</b> Mercantile Law: ( <i>Insurance Law</i> ) ..... Yearbook p.32

<b>445(12)</b> Mercantile Law: ( <i>Competition Law</i> )	Yearbook p.32
<b>446(12)</b> Mercantile Law: ( <i>Dissertation</i> )	Yearbook p.32
<b>447(12)</b> Mercantile Law: ( <i>Internet Law</i> )	Yearbook p.32
<b>448(12)</b> Mercantile Law: ( <i>Carriage of Goods</i> )	Yearbook p.32
<b>449(12)</b> Mercantile Law: ( <i>Banking law</i> )	Yearbook p.32

**Full year course**

<b>471(32)</b> Mercantile Law: ( <i>Law of Business Entities</i> )	Yearbook p.32
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**DEPARTMENT OF PRIVATE LAW**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Law\\_\(Eng\)\\_WEBpdf.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Law_(Eng)_WEBpdf.pdf)

First semester course	Second semester course
<b>411(12)</b> Legal Skills ..... Yearbook p.33	<b>451(12)</b> Conflict of Laws: <i>International Private Law</i> ..... Yearbook p.33
<b>411(12)</b> Private Law: ( <i>Contracts of Sale, Lease and Suretyship</i> ) ..... Yearbook p.35	<b>441(12)</b> Private Law: ( <i>Dissertation</i> ) ..... Yearbook p.35
	<b>451(12)</b> Private Law: ( <i>Sectional titles; Share block; Time Shares</i> ) ..... Yearbook p.35
	<b>452(12)</b> Private Law: ( <i>Advanced Family Law</i> ) ..... Yearbook p.35
	<b>453(12)</b> Private Law: ( <i>Consumer Law and Credit Law</i> ) ..... Yearbook p.36
	<b>454(12)</b> Private Law: ( <i>Enrichment Liability</i> ) ..... Yearbook p.36
	<b>455(12)</b> Private Law: ( <i>Advanced Law of Delict</i> ) ..... Yearbook p.36
	<b>457(12)</b> Private Law: ( <i>Statutory Law of Things</i> ) ..... Yearbook p.36

**Full year course**

<b>171(24)</b> Customary Law: <i>Indigenous Law</i> .....	Yearbook p.33
<b>171(24)</b> Introduction to Law.....	Yearbook p.33
<b>371(24)</b> Law of Civil Procedure.....	Yearbook p.33
<b>471(24)</b> Practical Legal Training.....	Yearbook p.34
<b>171(24)</b> Private Law: ( <i>Law of Persons</i> ).....	Yearbook p.34
<b>272(16)</b> Private Law: ( <i>Law of Things</i> ).....	Yearbook p.34
<b>273(16)</b> Private Law: ( <i>Law of Succession</i> ).....	Yearbook p.34
<b>372(32)</b> Private Law: ( <i>Law of Contract</i> ).....	Yearbook p.35
<b>373(32)</b> Private Law: ( <i>Law of Delict</i> ).....	Yearbook p.35



271(24) Roman Law.....Yearbook p.36

## DEPARTMENT OF PUBLIC LAW

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Law\\_\(Eng\)\\_WEBpdf.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Law_(Eng)_WEBpdf.pdf)

First semester course	Second semester course
411(16) Administrative Law.....Yearbook p.37	451(12) Constitutional Law ( <i>Capita Selecta</i> ) .....Yearbook p.37
312(12) Constitutional Law: ( <i>Content, Scope and Application of specific rights in the Bill of Rights</i> ) .....Yearbook p.37	451(12) Criminal Law ( <i>Specific common law and statutory crimes</i> ).....Yearbook p.38
211(12) Interpretation of Enacted Law .....Yearbook p.39	341(12) Legal Philosophy ( <i>Introduction</i> ) .....Yearbook p.39
	451(12) Legal Philosophy ( <i>Capita Selecta</i> ) .....Yearbook p.39
	451(12) Public Law ( <i>Dissertation</i> ).....Yearbook p.40
	451(12) Public Procurement Law.....Yearbook p.40

### Full year course

271(26) Constitutional Law ( <i>Basic Principles of Public Law</i> ).....	Yearbook p.37
171(24) Criminal Law ( <i>Introduction</i> ).....	Yearbook p.38
271(20) Law of Criminal Procedure.....	Yearbook p.39
471(20) Law of Evidence.....	Yearbook p.39

## FACULTY OF THEOLOGY (T-option)

### FACULTY OF THEOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Theology\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Theology_(Eng)_WEB.pdf)

First semester course	Second semester course
213(8) Ecclesiology: <i>15<sup>th</sup>-18<sup>th</sup>-century Church History</i> .....Yearbook p.87	143(16) Ecclesiology: <i>Church History and the History of Theology (Early Church and Middle Ages)</i> .....Yearbook p.87
414(12) Missiology: <i>Religions in Africa</i> .....Yearbook p.92	243(8) Ecclesiology: <i>Anglican Church History and Church Polity</i> .....Yearbook p.88
213(8) New Testament: <i>Synoptic Gospels</i> .....Yearbook p.93	442(6) Ecclesiology: <i>The Theology of Church Polity</i> .....Yearbook p.89
322(12) New Testament: <i>The Epistles of Paul I</i> .....Yearbook p.94	142(8) Missiology: <i>Introduction to the Theory and History of Mission</i> .....Yearbook p.89
414(12) New Testament : <i>The Johannine literature</i> .....Yearbook p.95-96	244(16) Missiology: <i>African Religions and Ecumenics</i> .....Yearbook p.90
213(8) Old Testament: <i>Pentateuch</i> .....Yearbook p.96-97	344(12) Missiology: <i>Mission Practice: Theory and Methodology of Mission</i> .....Yearbook p.91
322(6) Old Testament: <i>The prophetic literature of the Old Testament I</i> .....Yearbook p.98	444(12) Missiology: <i>Ecumenics</i> .....Yearbook p.92

<b>414(12)</b> Old Testament: <i>Lyrical literature in the Old Testament</i> ..... <b>Yearbook p.99</b>	<b>262(8)</b> New Testament: <i>The Epistles of Paul</i> ..... <b>Yearbook p.93</b>
<b>114(16)</b> Old and New Testament: <i>Introduction to the Old and New Testament</i> ..... <b>Yearbook p.100</b>	<b>352(6)</b> New Testament: <i>The Epistles of Paul II</i> ..... <b>Yearbook p.94-95</b>
<b>234(16)</b> Old and New Testament: <i>Gender and the Bible</i> ..... <b>Yearbook p.102</b>	<b>444(12)</b> New Testament: <i>General Epistles and Hebrews</i> ..... <b>Yearbook p.96</b>
<b>112(8)</b> Practical Theology: <i>Theological Foundations for Youth Work</i> ..... <b>Yearbook p.103</b>	<b>252(8)</b> Old Testament: <i>Prophetic Literature</i> ..... <b>Yearbook p.97</b>
<b>212(8)</b> Practical Theology: <i>Approaches to Youth Work</i> ..... <b>Yearbook p.104</b>	<b>352(12)</b> Old Testament: <i>The prophetic literature of the Old Testament II</i> ..... <b>Yearbook p.98-99</b>
<b>222(8)</b> Practical Theology: <i>Introduction to Pastoral Counselling</i> ..... <b>Yearbook p.104-105</b>	<b>444(12)</b> Old Testament: <i>Wisdom literature in the Old Testament</i> ..... <b>Yearbook p.99-100</b>
<b>234(16)</b> Practical Theology: <i>Children's Ministry</i> ..... <b>Yearbook p.105</b>	<b>144(16)</b> Old and New Testament: <i>Narrative Literature in the Bible</i> ..... <b>Yearbook p.101</b>
<b>414(12)</b> Practical Theology: <i>Pastoral care and Counselling</i> ..... <b>Yearbook p.107-108</b>	<b>144(16)</b> Practical Theology: <i>Substance Dependency and Group Work</i> ..... <b>Yearbook p.103-104</b>
<b>424(12)</b> Practical Theology: <i>Liturgical and Homiletical communication of the Gospel</i> ..... <b>Yearbook p.108-109</b>	<b>244(16)</b> Practical Theology: <i>Planning and Organization within Youth Work</i> ..... <b>Yearbook 105-106</b>
<b>314(16)</b> Substance Dependency II ..... <b>Yearbook p.110</b>	<b>254(16)</b> Practical Theology: <i>Youth Ministry</i> ..... <b>Yearbook p.106-107</b>
<b>324(12)</b> Planning and Organising within Youth Work: <i>Planning and Organising within the Youth Work Context</i> ..... <b>Yearbook p.111</b>	<b>262(8)</b> Practical Theology: <i>Ministry Practice</i> ..... <b>Yearbook p.107</b>
<b>112(8)</b> Practical Theology and Missiology: <i>Introduction to Practical Theology and Missiology</i> ..... <b>Yearbook p.112-113</b>	<b>444(12)</b> Practical Theology: <i>Community Development, Management and Entrepreneurial Skills</i> ..... <b>Yearbook p.109</b>
<b>212(8)</b> Systematic Theology: <i>Doctrine of God</i> ..... <b>Yearbook p.114-115</b>	<b>452(6)</b> Practical Theology: <i>Theology and Community Development II</i> ..... <b>Yearbook p.109-110</b>
<b>314(12)</b> Systematic Theology: <i>The doctrine of the Church, the Doctrine of the Sacraments and Eschatology</i> ..... <b>Yearbook p.116-117</b>	<b>342(12)</b> Gangsterism, Violence and the Abuse of Power ..... <b>Yearbook p.111-112</b>
<b>324(12)</b> Systematic Theology: <i>Ethical Themes</i> ..... <b>Yearbook p.117</b>	<b>352(12)</b> Human Development and Community Engagement (Practical) ..... <b>Yearbook p.112</b>
<b>334(12)</b> Systematic Theology: <i>Ethics - Sexuality and Life</i> ..... <b>Yearbook p.117-118</b>	<b>144(8)</b> Systematic Theology: <i>Philosophy for Theologians</i> ..... <b>Yearbook p.113-114</b>
<b>422(6)</b> Systematic Theology: <i>Contemporary Theology</i> ..... <b>Yearbook p.119</b>	<b>245(8)</b> Systematic Theology: <i>Christology</i> ..... <b>Yearbook p. 115</b>
<b>114(16)</b> Systematic Theology and Ecclesiology: <i>Introduction to Systematic Theology and Ecclesiology</i> ..... <b>Yearbook p.120</b>	<b>254(8)</b> Systematic Theology: <i>Human Dignity</i> ..... <b>Yearbook p.115-116</b>

**344(12)** Systematic Theology: *Doctrinal Themes*  
.....Yearbook p.118

**354(12)** Systematic Theology: *Economic Ethics and Apologetics* .....Yearbook p.118-119

## FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES (T-option)

### DEPARTMENT OF ECONOMICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

#### Full year course

**288(32)** Economics (Arts and Social Sciences) .....Yearbook p.197

### DEPARTMENT OF INDUSTRIAL PSYCHOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

#### First semester course

**132(6)** Industrial Psychology (Occupational Therapy)  
.....Yearbook p.200

**324(16)** Industrial Psychology (Visual Arts)  
.....Yearbook p.201

#### Second semester course

### SCHOOL OF PUBLIC LEADERSHIP

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

#### First semester course

**212(8)** Public and Development Management:  
*Development Theory and Paradigms* .....Yearbook p.214

**222(8)** Public and Development Management:  
*Government* .....Yearbook p.214

**314(12)** Public and Development Management: *Micro-development Management Strategies* ....Yearbook p.215

**324(12)** Public and Development Management: *Public Management Strategies* .....Yearbook p.215

#### Second semester course

**242(8)** Public and Development Management:  
*Development Policy Frameworks* .....Yearbook p.214

**252(8)** Public and Development Management: *The Public Policy Process* .....Yearbook p.215

**348(24)** Public and Development Management:  
*Integrated Development, Policy and Management Theory and Practice Capstone* .....Yearbook p.215

### ECONOMIC AND MANAGEMENT SCIENCES (GENERAL)

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_EMS.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_EMS.pdf)

#### Full year

**171(24)** Introduction to Financial Accounting.....Yearbook p.229

## FACULTY OF AGRISCIENCES (T-Option)

### DEPARTMENT OF AGRICULTURAL ECONOMICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>424(16)</b> Agricultural Economics: <i>Foundations of Agricultural Economics (An Institutional Approach)</i> ..... <b>Yearbook p.76</b>	<b>262(8)</b> Agricultural Economics: <i>The economics of agricultural resources</i> ..... <b>Yearbook p.75</b>

### DEPARTMENT OF AGRONOMY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>312(8)</b> Agronomy: <i>Greenhouse production techniques</i> ..... <b>Yearbook p.79</b>	<b>342(8)</b> Agronomy: <i>Weed Management</i> ..... <b>Yearbook p.79</b>
<b>322(8)</b> Agronomy: <i>Cultivation of annual agronomical crops</i> ..... <b>Yearbook p.79</b>	<b>362(8)</b> Agronomy: <i>Vegetable crops for intensive production systems</i> ..... <b>Yearbook p.80</b>
<b>324(16)</b> Agronomy: <i>Pasture management</i> ..... <b>Yearbook p.79</b>	<b>454(16)</b> Agronomy: <i>Production physiology and technology for annual agronomical crops</i> ..... <b>Yearbook p.80</b>
<b>332(8)</b> Agronomy: <i>Cultivation of future crops</i> ..... <b>Yearbook p.79</b>	
<b>424(16)</b> Agronomy: <i>Physiological and ecological principles of natural pasture management</i> ..... <b>Yearbook p.80</b>	

### DEPARTMENT OF ANIMAL SCIENCES

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>324(16)</b> Animal Nutrition Science: <i>Introduction to ruminant nutrition</i> ..... <b>Yearbook p.82</b>	<b>344(16)</b> Animal Nutrition Science: <i>Introduction to monogastric nutrition</i> ..... <b>Yearbook p.82</b>
<b>324(16)</b> Animal Physiology: <i>Applied Physiology in Farm Animals</i> ..... <b>Yearbook p.83</b>	<b>344(16)</b> Animal Physiology: <i>Advanced Animal Production Physiology</i> ..... <b>Yearbook p.83</b>
<b>214(16)</b> Animal Physiology: <i>Management Technology (Production animals)</i> ..... <b>Yearbook p.84</b>	<b>352(8)</b> Animal Product Science: <i>Dairy science and dairy cattle management</i> ..... <b>Yearbook p.84</b>
<b>112(8)</b> Animal Production Physiology..... <b>Yearbook p.84</b>	<b>144(16)</b> Animal Science: <i>Animal behaviour and husbandry</i> ..... <b>Yearbook p.85</b>
<b>334(16)</b> Animal Product Science: <i>Meat Science</i> ..... <b>Yearbook p.84</b>	<b>244(16)</b> Animal Science: <i>Basic principles of animal production and management</i> ..... <b>Yearbook p.85</b>
	<b>442(8)</b> Animal Science: <i>Practical training</i> ..... <b>Yearbook p.85</b>

## DEPARTMENT OF CONSERVATION ECOLOGY AND ENTOMOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>314(16)</b> Entomology: <i>Insect pest management</i> ..... ..... <b>Yearbook p.105</b>	<b>244(16)</b> Crop protection: <i>Introductory Plant Pathology and Entomology</i> ..... <b>Yearbook p.102</b>
<b>418(32)</b> Entomology: <i>Insect diversity</i> ..... <b>Yearbook p.106</b>	

## DEPARTMENT OF HORTICULTURE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>414(16)</b> Applied Plant Physiology: <i>Ecophysiology of horticultural and agronomical crops</i> ..... <b>Yearbook p.87</b>	<b>464(16)</b> Applied Plant Physiology: <i>Nutrition of horticultural and agronomical crops</i> ..... <b>Yearbook p.87</b>
<b>214(16)</b> Crop Production: <i>Plant Propagation</i> ..... <b>Yearbook p.102</b>	<b>342(8)</b> Horticultural Science: <i>Citrus production</i> ..... <b>Yearbook p.123</b>
<b>222(8)</b> Horticultural Science: <i>Fruit production</i> ..... <b>Yearbook p.123</b>	<b>352(8)</b> Horticultural Science: <i>Ornamental, foliage and aromatic plant production systems</i> ..... <b>Yearbook p.123</b>
<b>314(16)</b> Horticultural Science: <i>Deciduous fruit production</i> ..... <b>Yearbook p.123</b>	<b>444(16)</b> Horticultural Science: <i>Postharvest physiology and technology</i> ..... <b>Yearbook p.124</b>
<b>434(16)</b> Horticultural Science: <i>Applied plant physiology and tree architecture</i> ..... <b>Yearbook p.123</b>	

## DEPARTMENT OF FOOD SCIENCE

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(16)</b> Food Science: <i>Commercial food processing and preservation I</i> ..... <b>Yearbook p.109</b>	<b>144(16)</b> Food Science: <i>Introduction to food science</i> ..... <b>Yearbook p.109</b>
<b>314(16)</b> Food Science: <i>Animal food products</i> ..... <b>Yearbook p.109-110</b>	<b>244(16)</b> Food Science: <i>Commercial food processing and preservation II</i> ..... <b>Yearbook p.109</b>
<b>324(16)</b> Food Science: <i>Nutrition for the food scientist</i> ..... <b>Yearbook p.110</b>	<b>344(16)</b> Food Science: <i>Food of plant origin</i> ..... <b>Yearbook p.110</b>
<b>434(16)</b> Food Science: <i>Quality management systems</i> ..... <b>Yearbook p.111</b>	<b>354(16)</b> Food Science: <i>Sensory analysis</i> ..... <b>Yearbook p.111</b>
	<b>454(16)</b> Food Science: <i>Food Packaging</i> ..... <b>Yearbook p. 111</b>

### Full year course

<b>478(48)</b> Food Science: <i>Trial design and product development</i> .....	<b>Yearbook p.111</b>
<b>488(32)</b> Food chemistry and analysis.....	<b>Yearbook p.111</b>

## DEPARTMENT OF GENETICS

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>212(8)</b> Biometry: <i>Introductory biometry</i> ..... Yearbook p.95	<b>342(8)</b> Biometry: <i>Linear models in biometry</i> ..... Yearbook p.95
<b>312(8)</b> Biometry: <i>Biometrical inference</i> ..... Yearbook p.95	<b>244(16)</b> Genetics: <i>Introductory Molecular Biology</i> ..... Yearbook p.120
<b>214(16)</b> Genetics: <i>Introductory Genetics</i> ..... Yearbook p.120	<b>344(16)</b> Genetics: <i>Advanced Topics in Molecular Genetics</i> ..... Yearbook p.120
<b>314(16)</b> Genetics: <i>Genomes and Genome Analysis</i> ..... Yearbook p.120	<b>354(16)</b> Genetics: <i>Quantitative Genetics</i> ..... Yearbook p.121
<b>324(16)</b> Genetics: <i>Molecular Population Genetics</i> ..... Yearbook p.120	

## DEPARTMENT OF VITIVULTURE AND OENOLOGY

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

First semester course	Second semester course
<b>214(16)</b> Oenology: <i>The Wine Trade</i> ..... Yearbook p.130	<b>152(8)</b> Crop Production: <i>Introduction to Applied Plant Science</i> ..... Yearbook p.102
<b>314(16)</b> Oenology: <i>Pre-fermentation processing of grapes and must</i> ..... Yearbook p.131	<b>142(8)</b> Oenology: <i>Introduction to oenology</i> ..... Yearbook p.130
<b>214(16)</b> Viticulture: <i>Wine grape cultivars and their establishment and maintenance; Grapevine abnormalities</i> ..... Yearbook p.143	<b>244(16)</b> Oenology: <i>Wines of the world, South African wines and brandies and regulations</i> ..... Yearbook p.131
<b>314(16)</b> Viticulture: <i>Table and raisin grape production, packaging and storage</i> ..... Yearbook p.143	<b>342(8)</b> Oenology: <i>Post-fermentation operations</i> ..... Yearbook p.131
<b>322(8)</b> Viticulture: <i>Grapevine physiology</i> ..... Yearbook p.143	<b>344(16)</b> Oenology: <i>Applied wine microbiology</i> ..... Yearbook p.131
	<b>444(16)</b> Oenology: <i>Applied Oenology</i> ..... Yearbook p.131
	<b>454(16)</b> Oenology: <i>Wine maturation and quality systems</i> ..... Yearbook p.131
	<b>244(16)</b> Viticulture: <i>Grape production</i> .... Yearbook p.143
	<b>344(16)</b> Viticulture: <i>Plant material improvement, propagation and cultivation</i> ..... Yearbook p.144
	<b>444(16)</b> Viticulture: <i>Advanced perspectives on wine and table grape cultivation</i> ..... Yearbook p.144
	<b>454(16)</b> Viticulture: <i>Advanced Vineyard management</i> ..... Yearbook p.144

**Full year course**

<b>478(32)</b> Oenology: Oenology internship .....	<b>Yearbook p.132</b>
<b>478(32)</b> Viticulture: <i>Viticulture internship</i> .....	<b>Yearbook p.144</b>

**DEPARTMENT OF SOIL SCIENCE**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

<b>First semester course</b>	<b>Second semester course</b>
<b>114(16)</b> Soil Science: <i>Principles of soil science</i> ..... <b>Yearbook p.137</b>	<b>142(8)</b> Soil Science: <i>Applications of soil science</i> ..... <b>Yearbook p.137</b>
<b>214(16)</b> Soil Science: <i>Introduction to soil science</i> ..... <b>Yearbook p.137</b>	<b>244(16)</b> Soil Science: <i>Plant nutrition and fertilisation</i> ..... <b>Yearbook p.137</b>
<b>314(16)</b> Soil Science: <i>Genesis, morphology, classification and uses of soil</i> .....	<b>344(16)</b> Soil Science: <i>Soil and water management</i> ..... <b>Yearbook p.137</b>
<b>414(16)</b> Soil Science: <i>Advanced soil physics</i> ..... <b>Yearbook p.138</b>	<b>444(16)</b> Soil Science: <i>Advanced pedology</i> ..... <b>Yearbook p.138</b>
<b>424(16)</b> Soil Science: <i>Advanced soil chemistry</i> ..... <b>Yearbook p.138</b>	<b>454(16)</b> Soil Science: <i>Advanced resource management</i> ..... <b>Yearbook p.138</b>

**DEPARTMENT OF PLANT PATHOLOGY**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_AgriSciences\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_AgriSciences_(Eng)_WEB.pdf)

<b>First semester course</b>	<b>Second semester course</b>
<b>314(16)</b> Plant Pathology: <i>Plant disease dynamics</i> ..... <b>Yearbook p.133-134</b>	<b>344(16)</b> Plant Pathology: <i>Plant disease management</i> .. ..... <b>Yearbook p.134</b>
<b>414(16)</b> Plant Pathology: <i>Taxonomy and biology of plant pathogens</i> ..... <b>Yearbook p.134</b>	<b>444(16)</b> Plant Pathology: <i>Plant-microbe interactions</i> .. ..... <b>Yearbook p.134</b>

**Full year course**

<b>478(32)</b> Plant Pathology: <i>Advanced plant pathology</i> .....	<b>Yearbook p.134</b>
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**FACULTY OF EDUCATION (T-option)**

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_Education\\_\(Eng\)\\_WEB.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_Education_(Eng)_WEB.pdf)

**Full year course**

<b>178(10)</b> Economic and Management Sciences (ED) (ISP and FP) .....	<b>Yearbook p.90</b>
<b>178(10)</b> Mathematics (ED).....	<b>Yearbook p.104</b>
<b>178(10)</b> Natural Sciences (ED) (ISP and FP).....	<b>Yearbook p.109</b>
<b>178(10)</b> Social Sciences (ED) (ISP and FP).....	<b>Yearbook p.119</b>
<b>178(16)</b> Teaching and Learning: Practice (ISP and FP).....	<b>Yearbook p.127</b>
<b>278(5)</b> Xhosa as language of teaching and learning (ISP) .....	<b>Yearbook p.132</b>
<b>288(5)</b> Xhosa as language of teaching and learning (FP) .....	<b>Yearbook p.133</b>
<b>378(10)</b> Xhosa communication (ISP).....	<b>Yearbook p.133</b>
<b>388(10)</b> Xhosa communication (FP).....	<b>Yearbook p.133</b>
<b>278(15)</b> Xhosa (ISP) .....	<b>Yearbook p.133</b>
<b>284(15)</b> Xhosa (FP) .....	<b>Yearbook p.134</b>
<b>378(20)</b> Xhosa (ISP) .....	<b>Yearbook p.134</b>
<b>384(15)</b> Xhosa (FP) .....	<b>Yearbook p.134</b>

478(20) Xhosa (ISP).....	Yearbook p.134
484(15) Xhosa (FP) .....	Yearbook p.134

## FACULTY OF ENGINEERING (T-option)

### DEPARTMENT OF PROCESS ENGINEERING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
	442(8) Environmental Engineering: <i>Engineering and the Environment</i> ..... Yearbook p.58-59
	454(15) Environmental Engineering..... Yearbook p.59

#### Full year course

371(15) Process Engineering: <i>Supplementary Studies</i> .....	Yearbook p.44
488(30) Design Project: <i>Design</i> .....	Yearbook p.50

### DEPARTMENT OF INDUSTRIAL ENGINEERING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
312(8) Engineering Economy: <i>Engineering Economics</i> ..... Yearbook p.55	442(8) Industrial Practice: <i>Management and Organisational Behaviour</i> ..... Yearbook p.65
312(8) Facilities Design..... Yearbook p.59	
414(15) Manufacturing Systems..... Yearbook p.68-69	
415(15) Operations Research (ENG): <i>Operations Research (Stochastic Models)</i> ..... Yearbook p.74	
214(15) Production Management: <i>Production and Operational Management</i> ..... Yearbook p.75	

#### Full year course

498(30) Industrial Project: <i>Industrial Engineering Project</i> .....	Yearbook p.64
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### DEPARTMENT OF MECHANICAL AND MECHATRONIC ENGINEERING

[http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013\\_WEB\\_Ingenieurswese\\_Eng.pdf](http://www.sun.ac.za/english/Documents/Yearbooks/2013/2013_WEB_Ingenieurswese_Eng.pdf)

First semester course	Second semester course
	146(16) Preparatory Technical Drawings..... Yearbook p.75