

**FACULTIES OF THE
UNIVERSITY OF PRETORIA**

HUMANITIES
NATURAL AND AGRICULTURAL SCIENCES
LAW
THEOLOGY
ECONOMIC AND MANAGEMENT SCIENCES
VETERINARY SCIENCE
EDUCATION
HEALTH SCIENCES
ENGINEERING, BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

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**FACULTY OF ENGINEERING, BUILT ENVIRONMENT
AND INFORMATION TECHNOLOGY**

SECTION I

(separate publication)

SCHOOL OF ENGINEERING

- Industrial and Systems Engineering
- Chemical Engineering
- Electrical, Electronic and Computer Engineering
- Mechanical and Aeronautical Engineering
- Materials Science and Metallurgical Engineering
- Mining Engineering
- Civil Engineering

GRADUATE SCHOOL OF TECHNOLOGY MANAGEMENT

- Engineering and Technology Management

SECTION II

(this publication)

SCHOOL FOR THE BUILT ENVIRONMENT

- Architecture
- Construction Economics
- Town and Regional Planning

SCHOOL OF INFORMATION TECHNOLOGY

- Informatics
- Information Science
- Computer Science

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**FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION
TECHNOLOGY**

SCHOOL FOR THE BUILT ENVIRONMENT

ACADEMIC PERSONNEL AS AT 30 SEPTEMBER 2009

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Head: Student Administration

Jones, E.

GENERAL INFORMATION

Admission

Any person, who wishes to register at the University for the first time or after an interruption of studies, should apply or reapply for admission. Application for admission to all undergraduate programmes closes on 30 June.

Selection

Selection takes place prior to admission to the following programmes in the School for the Built Environment:

(a) All undergraduate programmes

A restricted number of students are admitted to all undergraduate programmes.

(b) Postgraduate programmes

A restricted number of students are admitted to the following taught programmes: BArchHons, BIntHons, BLArchHons, BScHons (Applied Science), BScHons Quantity Surveying, BScHons Construction Management, MArch(Prof), MInt(Prof), ML(Prof), MSc in Applied Science, MSc Quantity Surveying, MSc Construction Management, MSc Real Estate and Master of Town and Regional Planning. Applications close on 31 October for South African students.

Admission to the MSc and PhD programmes by research is subject to approval by the head of department and the dean.

(c) International students

Applications close on 31 August for international students.

International students wanting to be considered for selection must have their qualifications audited and verified by the South African Qualifications Authority (SAQA). Those candidates wanting to register for professional postgraduate degree programmes for purposes of professional registration must further have their qualifications verified by the relevant registering council as to the equivalence of the registration category. All costs are for the direct account of the applicant. All documentation must accompany the application and be submitted before the closing date.

Note: Contact details for the various bodies are to be found on the relevant departmental web page.

Statement of symbols

When registering at this University for the first time, an undergraduate candidate must submit a statement of symbols obtained for subjects in the Grade 12 examination. Postgraduate students are required to submit an academic record.

National Senior Certificate

All undergraduate candidates who enrol at the University of Pretoria for the first time must show their original National Senior Certificate at the student administration of their faculty before the end of the first semester.

Medium of instruction

In conducting its business, the University uses two official languages, namely Afrikaans and English. In formal education, the medium of instruction is either Afrikaans or English, or both of these languages; provided that there is a demand and that it is academically and economically justifiable. However, it remains the student's responsibility to ascertain on an annual basis in which language a programme and any further level of such programme is presented. In respect of administrative and other services, a student has the right to choose whether the University should communicate with him or her in Afrikaans or English.

Bursaries and loans

Particulars of bursaries and loans are available on request.

Accommodation

Applications for accommodation in university residences for a particular year may be submitted as from March 1 of the preceding year. Applications will be considered while vacancies exist, and prospective students are advised to apply well in advance. Please note that admission to the University does not automatically mean that lodging will also be available.

Welcoming day and academic orientation week

Details of the welcoming day to which all parents are cordially invited, and the subsequent academic orientation week during which all new first-year students **must** be present, are obtainable from the Dean of Students, University of Pretoria 0002.

Prescribed books

Lists of prescribed books are not available. The lecturers will inform students regarding prescribed books at the commencement of lectures.

Amendment of regulations and fees

The University reserves the right to amend the regulations and to change tuition fees without prior notification.

Please note: The fees advertised and thus levied in respect of a module or study programme presentation represents a combination of the costs associated with the formal services rendered (for example lectures, practical, access to laboratories, consumables used in laboratories, etc) as well as associated indirect overheads such as the provision of library and recreation facilities, security and cleaning services, electricity and water supply, etc. Therefore the fees in respect of a module or study programme presentation cannot simply be reconciled with the visible services that are rendered in respect of such module or programme.

GLOSSARY OF TERMS

academic year: The duration of the academic year as determined by the University Council.

admissions regulation: A regulation compiled by the dean concerning the admission of students to a specific school, which includes a provision regarding the selection process.

credit (or credit value): A value unit linked to learning activities, calculated in accordance with the SAQA norm of **1 credit = 10 notional hours (learning hours)**. Credits are linked to modules and whole qualifications.

curriculum: A series of modules which form a programme, grouped together over a specified period of time and in a certain sequence according to the regulations.

examination mark: The mark a student obtains for an examination in a module, including practical examinations where applicable.

final mark: The mark calculated on the basis of the semester/year mark and the examination mark which a student obtains in a particular module according to a formula that is determined from time to time in the regulations for each module with the proviso that should no semester/year mark be required in a module, the examination mark serves as the final mark.

GS: A combined (final) mark (semester/year mark plus examination mark) of 40% - 49%.

learning outcome: The end product of a specified learning process, i.e. the learning result (specific skills) that one intends to achieve at the end of the learning process.

level of a module: The academic level (year) of a module, which is indicated in the module code, which gives an indication of the complexity of the module.

module: An independent, defined learning unit, designed to result in a specific set of learning outcomes, and which is a component of a programme.

module code: Consists of an equal number of letters and digits, which indicate the name of the module, the year of study, the period of study and the level of the module.

notional hours (learning hours): The notional number of hours students should spend in mastering the learning content of a particular module or programme. The total number of learning hours for a module consists of the time needed for lectures, tutorials and practical (contact hours), as well as for self-tuition, examination preparation and any other activity required by the study programme. (**notional hours = credits (for a module) x 10**)

NQF: National qualifications framework. This is a national framework in which all SAQA-registered qualifications are listed, arranged on eight levels in accordance with the complexity of the qualification.

programme: This is a comprehensively planned, structured and coherent set of teaching and learning units (modules), designed to attain a specific set of predetermined learning outcomes at a specific exit level, which culminates in a student being awarded a particular qualification (diploma, degree).

qualification: In outcomes-based education, a qualification is a diploma or a degree which is obtained after attaining the learning outcomes as specified in a coherent learning programme, expressed as an accumulation of credits at specific levels.

SAQA: South African Qualifications Authority. This body has been established by law and has as its purpose the registration of qualifications, programmes and unit standards, in order to ensure that specific national and international criteria are achieved.

semester/year mark: The mark a student obtains during the course of a semester or a year for tests, class-work, practical work or any other work in a particular module as approved by regulation.

student-centred learning: Teaching and learning methodology, which facilitates the student's total own responsibility for the learning process. A prerequisite is that lectures, tutorials and practical be adapted so that active participation by students is always achieved.

syllabus: Summary of the contents of a module.

weighted average: The weighted average is composed of the marks of the various modules, weighted with the credits of each module as a fraction of the total number of credits for the quarter, semester or year.

DEGREES CONFERRED IN THE SCHOOL FOR THE BUILT ENVIRONMENT

The information regarding degree programmes here published are subject to change and may be amended prior to the commencement of the academic year in 2010.

The following degrees are awarded in the School for the Built Environment (minimum duration in brackets):

DEPARTMENT OF ARCHITECTURE

- (i) Bachelor of Science Architecture – [BScArch] (3 years)
- (ii) Bachelor of Science Interior Architecture – [BScInt] (3 years)
- (iii) Bachelor of Science Landscape Architecture – [BScLArch] (3 years)
- (iv) Bachelor of Architecture Honours– [BArchHons] (1 year)

- (v) Bachelor of Interior Architecture Honours – [BIntHons] (1 year)
- (vi) Bachelor of Landscape Architecture Honours – [BLHons] (1 year)
- (vii) Master of Architecture (Professional) – [MArch(Prof)] 1 year
- (viii) Master of Architecture – [MArch] Research (1 year)
- (ix) Master of Interior Architecture (Professional) – [MInt(Prof)] (1 year)
- (x) Master of Interior Architecture – [MInt] Research (1 year)
- (xi) Master of Landscape Architecture (Professional) – [ML(Prof)] (1 year)
- (xii) Master of Landscape Architecture – [ML] Research (1 year)
- (xiii) Doctor of Philosophy in Architecture, Landscape Architecture or Interior Architecture – [PhD] (1 year)
- (xiv) Bachelor of Science Honours in Applied Science) – [BScHons (Applied Science)] (1 year)
- (xv) Master of Science in Applied Science – [MSc (Applied Science)] (1 year)

DEPARTMENT OF CONSTRUCTION ECONOMICS

- (i) Bachelor of Science Quantity Surveying – [BScQS] (3 years)
- (ii) Bachelor of Science Honours Quantity Surveying – [BScHonsQS] (2 years)
Bachelor of Science Construction Management – [BSc Construction Management] (3 years)
- (iii) Bachelor of Science Real Estate) – [BSc Real Estate] (3 years)
- (v) Bachelor of Science Honours Construction Management – [BScHons Construction Management] (2 years)
- (vi) Master of Science Quantity Surveying – [MScQS] Research (1 year)
- (vii) Master of Science Construction Management – [MSc Construction Management] Research (1 year)
- (viii) Master of Science Real Estate – [MSc Real Estate] Research (1 year);
Coursework (2 years)
- (ix) Doctor of Philosophy – [PhD] (1 year)

DEPARTMENT OF TOWN AND REGIONAL PLANNING

- (i) Bachelor of Town and Regional Planning – [BT&RP] (4 years)
- (ii) Master of Town and Regional Planning – [MT&RP] Research (2 years);
Coursework (2 years)
- (iii) Doctor of Philosophy – [PhD] (2 years)

REGULATIONS FOR BACHELOR'S DEGREES

B.1 Admission to degree study

General Regulations G.1 to G.15 are applicable to all bachelor's degrees. Where the general rules have vested authority in the Faculty to determine its own provisions, these provisions appear in this publication.

- (a) To register for a first bachelor's degree at the University, a candidate must, in addition to having a valid National Senior Certificate with admission for degree purposes, comply with the specific admission requirements for particular programmes and fields of study as prescribed in the admission regulations and the regulations of the faculty. Admission to the School for the Built Environment is based on the final matriculation examination results.
- (b) The following persons may also be considered for admission:
 - (i) A candidate who is in possession of a certificate which is deemed by the University to be equivalent to the required grade 12 certificate with university endorsement.

- (ii) A candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution.
- (iii) A candidate who passes an entrance examination, which is prescribed by the University from time to time.

Abovementioned candidates are requested to contact the student administration at the faculty for more information regarding admission requirements.

Note: A conditional exemption certificate does not grant admission to bachelor's study. However, in certain circumstances some of the faculties do accept a conditional exemption on the basis of mature age and prior learning. Candidates are advised to contact the student administration concerned in this regard.

- (c) The Senate may limit the number of students allowed to register for a programme, in which case the dean concerned may, at his discretion, select from the students who qualify for admission, those who may be admitted.
- (d) Subject to faculty regulations and the stipulations of General Regulations G.1.3 and G.62, a candidate will only be admitted to postgraduate studies if he or she is already in possession of a recognised bachelor's degree.

B.2 Admission requirements for the Faculty of Engineering, Built Environment and Information Technology for candidates with a National Senior Certificate

To be able to gain access to the faculty and specific programmes, prospective students must meet the requirements of the appropriate combinations of recognised NSC subjects as well as certain levels of achievement in the said subjects. In this regard the determination of an admission point score (APS) is explained and a summary of the faculty specific requirements, i.e. APS per programme and the specific subjects required per programme is provided.

Determination of an Admission Point Score (APS, previous M-Score)

The calculation is simple and based on a candidate's achievement in six 20-credit recognised subjects by using the NSC ratings, which is the "1 to 7 scale of achievement". Thus, the highest APS that can be achieved is 42.

Life orientation is excluded from the calculation determining the APS required for admission.

Rating code	Rating	Marks %
7	Outstanding achievement	80-100%
6	Meritorious achievement	70-79%
5	Substantial achievement	60-69%
4	Adequate achievement	50-59%
3	Moderate achievement	40-49%
2	Elementary achievement	30-39%
1	Not achieved	0-29%

Preliminary admission is based on the results obtained in the final Grade 11 examination. Final admission is based on Grade 12 results. Please note: The final Grade 12 results will be the determining factor with regard to admission.

B.2.1 Specific admission requirements for the School for the Built Environment

- a) A valid National Senior Certificate with admission for degree purposes.
- b) The following minimum subject and level requirements for 2010:

School for the Built Environment – minimum requirements						
Degree	APS	Group A			Group B	
		Two languages	Mathematics	Life orientation	Physical science	2 Other subjects
BSc Architecture (A limited number of students are selected. An interview takes place.)	27	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be Afrikaans OR English at level 5 (60-69%).	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	4 (50-59%)	Any two subjects
BSc Interior Architecture (A limited number of students are selected. An interview takes place.)	27	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be Afrikaans OR English at level 5 (60-69%).	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	4 (50-59%)	Any two subjects
BSc Landscape Architecture (A limited number of students are selected. An interview takes place.)	27	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be Afrikaans OR English at level 5 (60-69%).	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	4 (50-59%)	Any two subjects
BSc Quantity Surveying (A limited number of students are selected.)	25	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be Afrikaans OR English at level 5 (60-69%).	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	4 (50-59%) for any one of the following subjects: Physical science and/ or Accounting	Any two subjects
BSc Construction Management (A limited number of	25	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	4 (50-59%) for any one of the following subjects: Physical	Any two subjects

students are selected.)		Afrikaans OR English at level 5 (60-69%).			science and/ or Accounting
Bachelor of Town and Regional Planning (A limited number of students are selected.)	24	Comply with NSC minimum requirements; ADDITIONALLY one of these languages must be Afrikaans OR English at level 4 (50-59%).	4 (50-59%)	4 (50-59%) (Excluded when calculating the APS)	Any three subjects

B.3 Modules from other faculties

A student who follows a module which is presented in another faculty, must acquaint him/herself and comply with the admission requirements of the module in question, sub minima requirements for tests/examinations, supplementary examination periods, etc.

B.4 Academic literacy

Academic literacy is presented as part of the specific study programme requirements. All first-year students who wish to register with the University are required to write an academic literacy test. On grounds of the results of this test, students who passed will be granted exemption from the EOT modules. Students who do not pass the test will be required to register for the EOT modules in order to obtain sufficient credits for degree purposes.

B.5 Computer and information literacy

Computer literacy (CIL 111) and Information literacy (CIL 121) are presented as compulsory modules, but exemption may be obtained for CIL 111 by writing an exemption test.

B.6 Registration for a specific year

A student registers at the beginning of an academic year for all the modules he or she intends taking in that specific year (first-semester, second-semester and year modules). Changes may only be made to a curriculum at the beginning of the second semester with the approval of the dean.

B.7 Registration of modules

- (a) Final cut-off dates are set for the change of modules (removing or adding) for each academic year. Please consult the calendar of the University in this regard.
- (b) Should a student register for second semester modules at the beginning of a year of study, and it becomes evident at the end of the first semester, that he or she does not comply with the prerequisites of the second-semester modules, the registration of such modules will be cancelled. It is also the student's responsibility to ensure at the beginning of the second semester that the cancellation has been done.

B.8 Module credits for unregistered students

There are students who attend lectures, write tests and examinations and in this manner earn marks, but have either not registered for modules or have not

registered as students at all. These marks will not be communicated to any student before he/she has provided proof of enrolment. A student cannot obtain any credits in a specific academic year for a module 'passed' in this manner during a previous academic year and for which he/she was not registered. This arrangement applies even where the student is prepared to pay the tuition fees.

B.9 Examinations

9.1 Examinations, projects and mini-dissertations

- (a) An examination in a module may be written and/or oral. Projects and mini-dissertations are prepared and examined as stipulated in the study guide of the module, in accordance with the regulations and procedures as described in 9.3 below.
- (b) The examinations for modules of the first semester are held in May/June, while all other examinations (second-semester modules and year modules) are held in October/November.

9.2 Examination admission

A minimum semester/year mark of 40% is required in order to be admitted to the final examination in a specific module, with the exception of first-semester modules at first-year level where a minimum semester mark of 30% is required for admission to an examination. In addition, all other examination admission requirements, applicable to the relevant module, must have been met.

9.3 Pass requirements

Refer to General Regulations G.11.1(a) and G.12.2.2.

- (a) In order to pass a module, a student must obtain an examination mark of at least 40% and a final mark of at least 50%. A student passes a module with distinction if a final mark of at least 75% is obtained. The final mark is compiled from the semester/year mark and the examination mark.
- (b) Calculation of the final mark: The semester/year mark must account for no less than 40% and no more than 60% of the final mark, with the exception of modules such as design and research projects and essays, as well as in modules where the development of general skills is the primary learning activity, where appropriate alternative norms are determined individually by schools or departments. The specific details and/or formula for the calculation of the final mark are set out in the study guide of each module. Also, a schedule listing this information (for all the modules presented in each school) will be compiled, for approval by the dean.
- (c) Calculation of the semester/year mark: The semester/year mark is compiled from formative assessment of learning activities such as assignments, presentations, practical and group projects, as well as from class tests and semester tests. For each module the specific formula for the calculation of the semester/year mark is determined by the lecturer(s) responsible for the presentation of the module and the details are given in the study guide of the module. Also, a schedule containing this information (for all the modules presented in each school) will be compiled, for approval by the dean. Refer also to General Regulation G.11.1(b).

- (d) For some modules, specific requirements in respect of certain components of the semester/year mark may be set, in order for a student to pass the module (for example that satisfactory performance in and attendance of practical classes are required). Thus, even if a pass mark is obtained in the module, a pass is not granted unless these requirements are met. For such modules these specific requirements are given in the study guide of the module. Also, a schedule containing this information (for all such modules presented in each school) will be compiled, for approval by the dean.
- (e) A student must comply with the subminimum requirements in subdivisions of certain modules. For such modules these specific requirements are given in the study guide of the module. Also, a schedule containing this information (for all such modules presented in each school) will be compiled, for approval by the dean.

9.4 Ancillary examinations

Refer to General Regulation G.12.3.

- 9.4.1** No ancillary examinations are granted in any design modules (all ONT modules) in the Department of Architecture.

9.5 Supplementary examinations

Refer to General Regulation G.12.4.

Except for first-semester modules in the first year where supplementary examinations are compulsory between 40% and 49%, a supplementary examination is only granted in instances where:

- (i) a final mark of between 45% and 49% was obtained;
- (ii) a final mark of between 40% and 44% was obtained and where the candidate also obtained either a semester mark or an examination mark of 50% or higher;
- (iii) a pass mark has been obtained, but the required subminimum in the examination section of the module or divisions thereof has not been obtained.

Regulations (i) to (iii) do not apply to second and third-year modules of any of the programmes in the Department of Architecture. No supplementary examinations are granted in any year of study for the design module (ONT modules).

9.6 Special examinations (including the aegrotat)

Refer to General Regulation G.12.5.

9.7 Other special examinations

Refer to General Regulation G.12.6.

- (a) The dean may, at the recommendation of the head of department concerned, grant a special examination in a module to a student who failed such a module in the final year of study, and consequently either does not comply with degree requirements, or is unable to continue with studies in the final semester in a meaningful way. A student may at most, be admitted to one special examination in a year module or two special examinations in semester modules.
- (b) In order to be considered for a special examination, a student should have obtained a minimum final mark of 40% and should also have

complied with all other examination admission requirements which are applicable to the relevant module.

- (c) A student must apply to the dean in writing before consideration will be given to admission to a special examination. Before a student may sit the examination, the head of department decides when the special examination will take place and may prescribe work which should be satisfactorily completed before the examination will take place.
- (d) The pass mark required for a special examination is 50%, a higher mark is not allocated and the semester/year mark is not taken into consideration.

9.8 Re-marking of examination scripts

Refer to General Regulation G.14.

B.10 Promotion requirements

- (a) Students whose academic progress is not acceptable can be suspended from further studies. Refer to the following important regulations:
General Regulation G.3
and/or
Regulations B.12 (d); B17 (d) or B.22 (d), Department of Architecture
or
Regulations B.27 (c) and B.29 (c), Department of Construction economics or
Regulation B.38 (c), Department of Town and Regional Planning.
- (b) A student who is excluded from further studies in terms of the stipulations of the abovementioned regulations will be notified in writing by the dean or admissions committee at the end of the relevant semester.
- (c) A student who has been excluded from further studies may apply in writing to the admissions committee of the School for the Built Environment for readmission on or before 11 January.
- (d) Should the student be readmitted by the admissions committee, strict conditions will be set which the student must comply with in order to proceed with studies.
- (e) Should the student not be readmitted to further studies by the admissions committee, he/she will be informed in writing.
- (f) Students who are not readmitted by the admissions committee have the right to appeal to the Senate Committee for Admission, Evaluation and Academic Support.
- (g) Any decision taken by the Senate Committee for Admission, Evaluation and Academic Support is final.

DEGREES IN THE DEPARTMENT OF ARCHITECTURE

DEGREES IN ARCHITECTURE

Architecture entails the design of buildings and the spaces between those buildings. It is the art and science that is employed in order to create a liveable environment, thus contributing towards the spiritual and material prosperity of the country. Architects are often independent thinkers, individualists and innovators. Although they are employed by organisations involved with development, investment, research, marketing, the industry or even education, many architects prefer to be independent consultants and entrepreneurs. BScArch is regarded as an exit level that enables the graduate to register as a candidate

senior architectural technologist at the South African Council for the Architectural Profession. A senior architectural technologist is a professional person registered by the SACAP in terms of the Act on the Architectural Profession (Act 44 of 2000). Such practitioners provide assistance in the practices of the disciplines of architecture, interior architecture, landscape architecture and urban design where their responsibilities would be the documentation of projects, project administration and site management.

Students are advised to work in the offices of an architect or a landscape architect to gain practical experience during the university recesses.

A graduate wishing to become a professional architect must apply for and pursue a further two years of full-time studies in the professional degree programme. The Master of Architecture (Professional) degree is recognised by the South African Council for the Architectural Profession as qualifying the graduate to register as a candidate professional architect in terms of the Act on the Architectural Profession (Act 44 of 2000).

<p>B.11 Bachelor of Science Architecture [BScArch] (Code 12132002)</p>

(a) Admission requirements

See General information B.1, B.2 and B.3 in this publication.

Note: Students wishing to transfer to other programmes in the Department of Architecture must obtain written consent from the admissions committee.

(b) Duration

The minimum period of study is three years full-time. Candidates wishing to become professional architects must hereafter apply to register for the BArchHons (one year full-time) and thereafter the MArch(Prof) degree (one year full-time).

(c) Curriculum

Total credits: 418

Unless the dean, in consultation with the head of department decides otherwise, the following applies:

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
AAL 110	Earth studies 110	-	10
ARC 110	Elective module 110	-	6
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
KON 111	Construction 111	-	8
OML 110	Environmental studies 110	-	6
ONT 100	Design 100	-	30
	Total		70
Second semester			
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
KON 121	Construction 121	KON 111 GS	8
OKU 120	Design communication 120	-	6
OML 120	Environmental studies 120	-	6
ONT 100	Design 100	-	30
	Total		60

Built Environment 2010

* Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR

First semester

AAL 210	Earth studies 210	-	8
JCP 201	Community-based project 201	-	4
KON 210	Construction 210	KON 111, 121	8
OML 210	Environmental studies 210	-	6
ONT 200	Design 200	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
STU 211	Theory of structures 211	-	8
	Total		64

Second semester

AAL 224	Earth studies 224	-	4
GGY 265	Geomorphology of the built environment 265	-	12
JCP 201	Community-based project 201	-	4
KON 220	Construction 220	KON 210 GS	8
OML 220	Environmental studies 220	-	6
ONT 200	Design 200	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
STU 221	Theory of structures 221	STU 211 GS	8
	Total		72

THIRD YEAR

First semester

BER 310	Business law 310	-	16
GGY 283*	Introductory GIS 283 (Capita selecta)	-	12
or			
OKU 313	Design communication 313	-	6
KON 310	Construction 310	KON 210, 220	8
OMG 310	History of the environment 310	-	6
OML 310	Environmental studies 310	-	6
ONT 300	Design 300	KON 210, 220 OML 210, 220 ONT 200	30
STU 311	Theory of structures 311	STU 211, 221	8
	Total		80

* If this module is chosen the total credits = 86

Second semester

AAL 320	Earth studies 320	AAL 210	6
KON 320	Construction 320	KON 310 GS	8
OMG 320	History of the environment 320	-	6
OML 320	Environmental studies 320	OML 310 GS	6

ONT 300	Design 300	KON 210, 220 OML 210, 220 ONT 200	30
PJS 320	Practice management 320	-	8
STU 321	Theory of structures 321	STU 311 GS	8
	Total		72

The programme is set out below:

Year	Semester	PJS	STU	AAL	KON	ONT	OML	OMG	OKU
1	1	CIL 111	-	110	111	100	110	-	Elective module
	2	CIL 121	-	-	121	100	120	-	OKU 120
2	1	JCP 201	211	210	210	200	210	-	-
	2	JCP 201	221	GGY 265 AAL 224	220	200	220	-	-
3	1	BER 310	311	-	310	300	310	310	GGY 283 or OKU 313
	2	PJS 320	321	320	320	300	320	320	-

(d) Promotion requirements

A student is promoted to a subsequent year of study after acquiring all the prerequisite module credits of the preceding year of study.

A student is deemed to be in the year of study for which he or she is registered in Design.

If the student is not registered for Design the highest passed year of Design determines the year of study.

Note: Students not promoted to the next year of study must obtain the approval of the programme coordinator and the head of department to register for modules in the subsequent year of study. Students must re-apply for admission to the Department of Architecture in instances where:

- (i) a student is not promoted to the second year of study;
- (ii) a student after repeating any year of study, is not promoted to the following year of study.

(e) Concurrent presentation

Design and Construction must initially be examined in the same year.

(f) Awarding of degree

The degree is awarded to those students obtaining all the prescribed credits for the programme modules.

(g) Degree with distinction

The BScArch degree is conferred with distinction on a student who, at first registration, simultaneously passes both Design 300 and Construction 320 with distinction (minimum 75%) with the proviso that the degree is completed within the

minimum prescribed time and all other final-year modules are passed on first registration without any supplementary/special examinations.

**B.12 Bachelor of Architecture Honours
[BArchHons] (Code 12242003)**

Refer to General Regulations G.16 to G.29 and G.62.

(a) Admission requirements

A candidate for the degree programme Bachelor of Architecture Honours:

- (1) must be a graduate with a BScArch degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification.
Such a candidate may be required, at the discretion of the head of department to take:
 - (i) an academic literacy test;
 - (ii) a computer skills test;**or**
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate, and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above,

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, for those students wishing to hereafter continue with the MArch(Prof) degree, the following curriculum applies:

BArchHons	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Practice component	CPD 710 (6 credits) Systems and materials	CPD 720 (6 credits) The idea of building	CPD 730 (6 credits) Professional practice POU 720 (2 credits)	CPD 740 (6 credits) Built environment modelling
Theory component	RFS 710 (6 credits), RFS 720 (6 credits) & RFS 730 (6 credits) <i>May run separately or concurrently over quarters 1-3</i>			RFS 740 6 credits
Project component	RFP 711/721/731 (20 credits each) <i>Examined at the end of quarter 3</i>			RFP 710 20 credits

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework a minimum examination mark of 50% is required.

(e) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(f) Degree with distinction

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75%.

MASTER'S PROGRAMMES IN ARCHITECTURE

The degree may be obtained in one of two ways, namely by virtue of a dissertation and an examination or by virtue of a taught curriculum and a mini-dissertation. The requirements for the two options are set out below.

**B.13 Master of Architecture (Professional)
[MArch(Prof)] (Code 12252005)**

Refer to General Regulations G.30 to G.44 and G.57 to G.62.

The Master of Architecture (Professional) is a taught master's degree for the purposes of registration as a candidate professional architect with the South African Council for the Architectural Profession in terms of act 44 of 2000 and is done by coursework, projects and a design investigation mini-dissertation and design project and discourse.

(a) Admission requirements

A candidate for the degree programme Master of Architecture (Professional):

- (1) must be a graduate with a BArchHons degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification at honours degree level;
or
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above,

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;

- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, the following curriculum applies:

MArch(Prof)	
Practice component	CPD 810 (10 credits) 1 st quarter module Continuing practice development (The results for this module will only be made available in the 4 th quarter)
Theory component	DIT 801 (50 credits) Year module Design investigation
Project component	DPD 801 (60 credits) Year module Mini-dissertation: Design project and discourse

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework a minimum examination mark of 50% is required.

(e) Design topic

The topic of the final design project (DIT 801 & DPD 801) must be approved by the head of department.

(f) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(g) Degree with distinction

The degree is conferred with distinction on those students registering for the first time and obtaining a distinction (75%) simultaneously for both the Design investigation mini-dissertation (DIT 801) and the Design project and discourse (DPD 801) with the proviso that the degree is completed within the minimum prescribed time and all other final-year modules are passed on first registration.

(h) Required publication

General Regulation G.61. applies.

**B.14 Master of Architecture (Research)
[MArch] (Research) (Code 12252002)**

Refer to General Regulations G.30 to G.44 and G.57 to G.62.

By virtue of a dissertation and examination.

Dissertation: ARG 890

Total credits: 180

(a) Admission requirements

Candidates who wish to research a topic within the discipline of architecture and who are in possession of

- (i) a BArch or equivalent degree of four years or more;
or
- (ii) an honours degree in Architecture, BArchHons, or equivalent;
or
- (iii) a three-year degree with Design as major component and who successfully complete supplementary modules with weighting equivalent of an honours degree as prescribed by the head of department;
or
- (iv) who are deemed adequate by the head of department in consultation with the dean and obtained (where necessary) the approval of the Senate and complying with whatever additional requirements may be prescribed are admitted for the degree Master of Architecture (by research).

(b) Duration and curriculum

After a minimum of one year of registration, the student is to submit a dissertation for examination and have an oral examination of the dissertation in the related field of study.

(c) Awarding of the degree

The Master of Architecture degree is conferred on students obtaining a minimum of 50% for both the dissertation and oral examination.

(d) Degree with distinction

The Master of Architecture degree is conferred with distinction on students obtaining a minimum of 75% for both the dissertation and the oral examination.

(e) Required publication

General Regulation G.61. applies.

**B.15 Doctor of Philosophy
[PhD] (Code 12262002)**

Refer to General Regulations G.45 to G.62.

Thesis: ARG 990 (360 credits)

- (a) Candidates who have obtained a master's degree in Architecture or the UP MSc (Applied Science) are admitted to doctoral studies.

- (b) Candidates in possession of a master's degree by coursework may, at the discretion of the head of department, be required to pass supplementary modules prior to commencing of studies.
- (c) A PhD student must submit a thesis which deals with a topic from the discipline of architecture and which provides proof of advanced original research and/or creative work which makes a real and substantial contribution to the knowledge and/or practice of architecture.
- (d) A student must submit at least one draft article to a recognised journal for publication, before or concurrent with the submission of the thesis. The draft article must be based on the research undertaken for the thesis and must be acceptable to the supervisor.
- (e) The doctoral examination, either written or oral, **is compulsory**, and covers the content of the thesis as well as the field of study on which the thesis is based.

DEGREES IN INTERIOR ARCHITECTURE

Interior architecture is the art and science of the design of designated spaces. It focuses on the needs of the user and the harmony between architectural spaces and the detailed design of spaces and life-style products. Graduates will have the ability to design interiors and products. Attention is given to the design process, building and material technology, building climate, ergonomics, history and visual communication within the context of society, economics, politics and technology. It is very important that students have the ability to visualise spaces, think three-dimensionally and solve problems creatively.

Students are advised to work in the offices of an architect or an interior architect during the university recesses to gain practical experience.

It is recommended that those graduates wishing to practice as interior designers pursue further studies namely the one year, full-time Honours in Interior architecture programme.

A graduate wishing to become a professional Interior architect is advised to register for the MInt(Prof) degree programme.

B.16 Bachelor of Science Interior Architecture [BScInt] (Code 12132008)

(a) Admission requirements

Refer to General information B.1, B.2 and B.3 in this publication.

Note: Students wishing to transfer to other programmes in the Department of Architecture must obtain written consent from the admissions committee.

(b) Duration

The minimum period of study is three years full-time. Candidates wishing to become professional Interior architects must hereafter apply to register for the BIntHons degree (one year full-time) and the MInt(Prof) degree (one year full-time). Those candidates wishing to become interior and product designers must hereafter register for the one year full-time honours degree programme in Interior Architecture [BIntHons].

(c) Curriculum

Total credits: 422

Unless the dean, in consultation with the head of department, decides otherwise, the following curriculum applies:

Code	Module	Prerequisite	Credits
FIRST YEAR			
First semester			
AAL 110	Earth studies 110	-	10
ARC 110	Elective module	-	6
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
KON 111	Construction 111	-	8
OML 110	Environmental studies 110	-	6
ONT 100	Design 100	-	30
	Total		70
Second semester			
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
KON 121	Construction 121	KON 111 GS	8
OKU 120	Design communication 120	-	6
OML 120	Environmental studies 120	-	6
ONT 100	Design 100	-	30
	Total		60

*Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy . (See Regulation B.5.)

SECOND YEAR

First semester

AAL 210	Earth studies 210	-	8
JCP 201	Community-based project 201	-	4
KON 210	Construction 210	KON 111, 121	8
OML 210	Environmental studies 210	-	6
ONT 203	Design 203	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
TKS 212	Textiles 212	-	14
	Total		70

Second semester

AAL 223	Earth studies 223	-	4
AAL 224	Earth studies 224	-	4
JCP 201	Community-based project 201	-	4
KON 220	Construction 220	KON 210 GS	8
OML 220	Environmental studies 220	-	6
ONT 203	Design 203	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
TKS 222	Textiles 222	TKS 212 GS	14
	Total		70

THIRD YEAR

First semester

BER 310	Business law 310	-	16
KON 310	Construction 310	KON 210, 220	8
OKU 313	Design communication 313	-	6
OMG 310	History of the environment 310	-	6
OML 310	Environmental studies 310	-	6
ONT 303	Design 303	KON 210, 220 OML 210, 220 ONT 203	30
MST 313	Material studies 313	TKS 212, 222	8
	Total		80

* If this module is chosen the total credits = 86

Second semester

AAL 320	Earth Studies 320	AAL 210	6
KON 320	Construction 320	KON 310 GS	8
OMG 320	History of the environment 320	-	6
OML 320	Environmental studies 320	OML 310 GS	6
ONT 303	Design 303	KON 210, 220 OML 210, 220 ONT 203	30
PJS 320	Practice management 320	-	8
MST 323	Material studies 323	MST 313	8
	Total		72

The programme is set out below:

Year	Semester	PJS	MST	AAL	KON	ONT	OML	OMG	OKU
1	1	CIL 111	-	110	111	100	110	-	Elective module
	2	CIL 121	-	-	121	100	120	-	OKU 120
2	1	JCP 201	TKS 212	210	210	203	210	-	-
	2	JCP 201	TKS 222	223 224	220	203	220	-	-
3	1	BER 310	313	-	310	303	310	310	OKU 313
	2	PJS 320	323	320	320	303	320	320	-

(d) Promotion requirements

A student is promoted to a subsequent year of study after acquiring all the prerequisite module credits of the preceding year of study. A student is deemed to be in the year of study for which he or she is registered in Design.

If the student is not registered for Design the highest passed year of Design determines the year of study.

Note: Students not promoted to the next year of study must obtain the approval of the programme coordinator and the head of department to register for modules in the subsequent year of study. Students must re-apply for admission to the Department of Architecture in instances where:

- (i) a student is not promoted to the second year of study;
 - (ii) a student after repeating any year of study, is not promoted to the following year of study.
- (e) **Concurrent presentation**
Design and Construction must initially be examined in the same year.
- (f) **Awarding of degree**
The degree is awarded to those students who have obtained all the prescribed credits for the programme modules.
- (g) **Degree with distinction**
The degree is conferred with distinction on a student who, at first registration, simultaneously passes both Design 303 and Construction 320 with distinction (75%) with the proviso that the degree is completed within the minimum prescribed time and all other final-year modules are passed on first registration without any supplementary/special examinations.

<p>B.17 Bachelor of Interior Architecture Honours [BIntHons] (Code 12242006)</p>
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Refer to General Regulations G.16 to G.29 and G.62.

(a) **Admission requirements**

A candidate for the degree programme Bachelor of Interior Architecture Honours:

- (1) must be a graduate with a BScInt degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification.
Such a candidate may be required, at the discretion of the head of department to take:
 - (i) an academic literacy test;
 - (ii) a computer skills test;**or**
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above,

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: The number of candidates admitted to this programme is restricted.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, for those students wishing hereafter to continue with the MInt(Prof) degree, the following curriculum applies:

BIntHons	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Practice component	CPD 710 (6 credits) Systems and materials	CPD 720 (6 credits) The idea of building	CPD 730 (6 credits) Professional practice POU 720 (2 credits)	CPD 740 (6 credits) Built environment modelling
Theory component	RFS 710 (6 credits), RFS 720 (6 credits) & RFS 730 (6 credits) <i>May run separately or concurrently over quarters 1-3</i>			RFS 740 (6 credits)
Project component	RFP 713/723/733 (20 credits each) <i>Examined at the end of quarter 3</i>			RFP 730 (20 credits)

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework, a minimum examination mark of 50% is required.

(e) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(f) Degree with distinction

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75%.

MASTER'S PROGRAMMES IN INTERIOR ARCHITECTURE

The degree may be obtained in one of two ways, namely by virtue of a dissertation and an examination or by virtue of a taught curriculum and a mini-dissertation. The requirements for the two options are set out below.

**B.18 Master of Interior Architecture (Professional)
[MInt(Prof)] (Code 12252007)**

Refer to General Regulations G.30 to G.44 and G.57 to G.62.

The Master of Interior Architecture (Professional) is done by coursework, a design investigation mini-dissertation and design project and discourse.

(a) Admission requirements

Candidates for the degree programme Master of Interior Architecture (Professional):

- (1) must be a graduate with a BIntHons degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification at honours degree level;
or
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate, and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above,

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, the following curriculum applies:

MInt(Prof)	
Practice component	CPD 810 (10 credits) 1 st quarter module Project brief development (The results for this module will only be made available in the 4 th quarter)
Theory component	DIT 803 (50 credits) Year module Design investigation
Project component	DPD 803 (60 credits) Year module Mini-dissertation: Design project and discourse

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination, a minimum coursework mark of 50% is required.

If the module is not evaluated by coursework, a minimum examination mark of 50% is required.

(e) Design topic

The topic of the final design project (DIT 803 & DPD 803) must be approved by the head of department.

(f) Awarding of degree

The degree is awarded to those students having obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(g) Degree with distinction

The degree is conferred with distinction on those students registering for the first time and obtaining a distinction (75%) simultaneously for both the Design investigation mini-dissertation (DIT 803) and the Design project and discourse (DPD 803) with the proviso that the degree is completed within the minimum prescribed time and all other final-year modules are passed on first registration.

(h) Required publication

General Regulation G.61. applies.

B.19 Master of Interior Architecture (Research) [MInt] (Research) (Code 12252004)
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Refer to General Regulations G.30 to G.44 and G.58 to G.62.
By virtue of dissertation and examination.

Dissertation: INT 890

Total credits: 180

(a) Admission requirements

Candidates who wish to research a topic within the discipline of interior architecture and who

- (i) are in possession of a BInt or equivalent degree of four years or more;
or
- (ii) are in possession of an honours degree in Interior architecture, BIntHons, or equivalent;
or
- (iii) are in possession of a three-year degree with Design as major component and who successfully complete supplementary modules with weighting equivalent of an honours degree as prescribed by the head of department; **or**
- (iv) are deemed adequate by the head of department in consultation with the dean and obtained (where necessary) the approval of the Senate and complying with whatever additional requirements may be prescribed are admitted for the degree Master of Interior Architecture (by research).

(b) Duration and curriculum

After a minimum of one year of registration the student submits a dissertation for examination and has an oral examination of the dissertation in the related field of study.

(c) Awarding of the degree

The Master of Interior Architecture degree is conferred on students obtaining a minimum of 50% for both the dissertation and oral examination.

(d) Degree with distinction

The Master of Interior Architecture degree is conferred with distinction on students obtaining a minimum of 75% in both the dissertation and the oral examination.

- (e) **Required publication**
General Regulation G.61. applies.

B.20 Doctor of Philosophy [PhD] (Code 12262008)
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Refer to General Regulations G.45 to G.62.

Thesis: INT 990 (360 credits)

- (a) Candidates who have obtained a master's degree in Interior architecture or the UP MSc (Applied Science) are admitted to doctoral studies.
- (b) Candidates in possession of a master's degree by coursework may, at the discretion of the head of department, be required to pass supplementary modules prior to commencing of studies.
- (c) A PhD student must submit a thesis which deals with a topic from the discipline of interior architecture and which provides proof of advanced original research and/or creative work which makes a real and substantial contribution to the knowledge and/or practice of interior architecture.
- (d) A student must submit at least one draft article to a recognised journal for publication, before or concurrent with the submission of the thesis. The draft article must be based on the research undertaken for the thesis and must be acceptable to the supervisor.
- (e) The doctoral examination, either written or oral, **is compulsory**, and covers the content of the thesis as well as the field of study on which the thesis is based.

DEGREES IN LANDSCAPE ARCHITECTURE
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Landscape architecture is the science and art of the design of outside areas for the use and enjoyment of people. Parks, game reserves, recreational areas and marinas are only a few of the environments which the landscape architect designs. They create urban oases in the form of plazas and pedestrian routes, and design environments around shopping centres and residential developments. The landscape architect can join a private firm, start an own business, or accept employment in central, provincial or local government in departments that handle water usage and research, forestry, environmental matters, sport, recreational and fishing areas, and nature conservation.

Students are advised to work in the offices of an architect or a landscape architect to gain practical experience during the university recesses.

BSc(LArch) is a three-year degree and is regarded as an exit level that enables the graduate to register as a candidate landscape architectural technologist who is a professional person registered by the South African Council of the Landscape Architectural Profession in terms of the Act on the Landscape Architectural Profession (Act 45 of 2000). Such practitioners provide assistance in the practices of the disciplines of landscape architecture and urban design where their responsibilities would be the documentation of projects, project administration and site management. A graduate wishing to become a professional landscape architect must apply for and pursue a further two years of full-time studies in the relevant professional degree programme.

The Master of Landscape architecture (Professional) degree is recognised by the South African Council for the Landscape Architectural Profession as qualifying the graduate to register as a candidate professional landscape architect in terms of the Act on the Landscape Architectural Profession (Act 45 of 2000).

**B.21 Bachelor of Science Landscape Architecture
[BScLArch] (Code 12132004)**

(a) Admission requirements

Refer to General information B.1, B.2 and B.3 in this publication.

Note: Students wishing to transfer to other programmes in the Department of Architecture must obtain written consent from the admissions committee.

(b) Duration

The minimum period of study is three years full-time. Candidates wishing to become professional landscape architects must hereafter apply to register for the BLHons degree (one year full-time), and thereafter the ML(Prof) degree (one year full-time).

(c) Curriculum

Total credits: 426

Unless the dean, in consultation with the head of department, decides otherwise, the following curriculum applies:

Code	Module	Prerequisite	Credits
FIRST YEAR			
First semester			
AAL 110	Earth studies 110	-	10
ARC 110	Elective module	-	6
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
KON 111	Construction 111	-	8
OML 110	Environmental studies 110	-	6
ONT 100	Design 100	-	30
	Total		70
Second semester			
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
KON 121	Construction 121	KON 111 GS	8
OKU 120	Design communication 120	-	6
OML 120	Environmental studies 120	-	6
ONT 100	Design 100	-	30
	Total		60

* Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR

First semester

AAL 210	Earth studies 210	-	8
JCP 201	Community-based project 201	-	4
KON 210	Construction 210	KON 111, 121	8
OML 210	Environmental studies 210	-	6

ONT 202	Design 202	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
LAN 212	Landscape architecture 212	-	8
	Total		64

Second semester

GGY 265	Geomorphology of the built environment 265	-	12
GKD 225	General soil science 225 (Capita selecta)	-	12
JCP 201	Community-based project 201	-	4
KON 220	Construction 220	KON 210 GS	8
OML 220	Environmental studies 220	-	6
ONT 202	Design 202	AAL 110 KON 111, 121 OML 110, 120 ONT 100	30
LAN 222	Landscape architecture 222	LAN 212 GS	8
	Total		80

THIRD YEAR

First semester

BER 310	Business law 310	-	16
GGY 283*	Introductory GIS 283 (Capita selecta)	-	12
KON 310	Construction 310	KON 210, 220	8
OMG 310	History of the environment 310	-	6
OML 310	Environmental studies 310	-	6
ONT 302	Design 302	KON 210, 220 OML 210, 220 ONT 202	30
PWT 312	Plant science 312	LAN 212, 222	8
	Total		80

* If this module is chosen the total credits = 86

Second semester

AAL 320	Earth studies 320	AAL 210	6
KON 320	Construction 320	KON 310 GS	8
OMG 320	History of the environment 320	-	6
OML 320	Environmental studies 320	OML 310 GS	6
ONT 302	Design 302	KON 210, 220 OML 210, 220 ONT 202	30
PJS 320	Practice management 320	-	8
PWT 322	Plant science 322	PWT 312 GS	8
	Total		72

The programme is set out below:

Year	Semester	PJS	LAN	AAL	KON	ONT	OML	OMG	OKU
1	1	CIL 111	-	110	111	100	110	-	Elective module
	2	CIL 121	-	-	121	100	120	-	OKU 120
2	1	JCP 201	212	210	210	202	210	-	-
	2	JCP 201	222	GGY 265 GKD 225	220	202	220	-	
3	1	BER 310	PWT 312	-	310	302	310	310	GGY 283
	2	PJS 320	PWT 322	320	320	302	320	320	-

(d) Promotion requirements

A student is promoted to a subsequent year of study after acquiring all the prerequisite module credits of the preceding year of study.

A student is deemed to be in the year of study for which he or she is registered in Design.

If the student is not registered for Design the highest passed year of Design determines the year of study.

Note: Students not promoted to the next year of study must obtain the approval of the programme co-ordinator and the head of department to register for modules in the subsequent year of study. Students must re-apply for admission to the Department of Architecture in instances where:

- (i) a student is not promoted to the second year of study;
- (ii) a student after repeating any year of study, is not promoted to the following year of study.

(e) Concurrent presentation

Design and Construction must initially be examined in the same year.

(f) Awarding of degree

The degree is awarded to those students who have obtained all the prescribed credits for the programme modules.

(g) Degree with distinction

The BScLArch degree is conferred with distinction on a student who, at first registration, simultaneously passes Design 302 and Construction 320 with distinction (75%) with the proviso that the degree is completed within the minimum prescribed time and all other final-year modules are passed on first registration without any supplementary/special examinations.

**B.22 Bachelor of Landscape Architecture Honours
[BLHons] (Code 12242004)**

Refer to General Regulations G.16 to G.29 and G.62.

(a) Admission requirements

A candidate for the degree programme Bachelor of Landscape Architecture Honours:

- (1) must be a graduate with a BScLArch degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification. Such a candidate may be required, at the discretion of the head of department to take:
 - (i) an academic literacy test;
 - (ii) a computer skills test;**or**
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate, and comply with any other prescribed requirements.
Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above,

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, for those students wishing to hereafter continue with the ML(Prof) degree, the following curriculum applies:

BLHons	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Practice component	CPD 710 (6 credits) Systems and materials	CPD 720 (6 credits) The idea of building	CPD 730 (6 credits) Professional practice POU 720 (2 credits)	CPD 740 (6 credits) Built environment modelling
Theory component	RFS 710 (6 credits), RFS 720 (6 credits) & RFS 730 (6 credits) <i>May run separately or concurrently over quarters 1-3</i>			RFS 740 (6 credits)
Project component	RFP 712/722/732 (20 credits each) <i>Examined at the end of quarter 3</i>			RFP 720 (20 credits)

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework a minimum examination mark of 50% is required.

(e) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits.

Students admitted with conditions must comply with all of these before all 700 series module credits and the degree are awarded.

(f) Degree with distinction

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75%.

MASTER'S PROGRAMMES IN LANDSCAPE ARCHITECTURE

The degree may be obtained in one of two ways, namely by virtue of a dissertation and an examination or by virtue of a taught curriculum and a mini-dissertation. The requirements for the two options are set out below.

**B.23 Master of Landscape Architecture (Professional)
[ML(Prof)] (Code 12252008)**

Refer to General Regulations G.30 to G.44 and G.57 to G.62.

The Master of Landscape Architecture (Professional) is a taught master's degree for the purpose of registration as a candidate professional landscape architect with the South African Council for the Landscape Architecture Profession in terms of Act 45 of 2000 and is done by coursework, projects and a design investigation mini-dissertation and design project and discourse.

(a) Admission requirements

Candidates for the degree programme Master of Landscape Architecture (Professional):

- (1) must be a graduate with a BLHons degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification at honours degree level;
or
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3):

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or design journal which demonstrates the requisite level of proficiency and competency and is considered a record of their experience within the discipline;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

Unless the head of department, after consultation with the dean, decides otherwise, the following applies:

ML(Prof)	
Practice component	CPD 810 (10 credits) 1 st quarter module Project brief development (The results for this module will only be made available in the 4 th quarter) 10 credits
Theory component	DIT 802 (50 credits) Year module Design investigation
Project component	DPD 802 (60 credits) Year module Mini-dissertation: Design project and discourse

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework a minimum examination mark of 50% is required.

(e) Design topic

The topic of the final design project (DIT 802 & DPD 802) must be approved by the head of department.

(f) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(g) Degree with distinction

The degree is conferred with distinction on those students registering for the first time and obtaining a distinction (75%) simultaneously for both the Design investigation mini-dissertation (DIT 802) and the Design project and discourse (DPD 802) with the proviso that the degree is completed within the minimum prescribed time and all other final-year modules are passed on first registration.

(h) Required publication

General Regulation G.61. applies.

B.24 Master of Landscape Architecture (Research) [ML] (Research)] (Code 12252003)
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Refer to General Regulations G.30 to G.44 and G.57 to G.62.

By virtue of dissertation and examination.

Dissertation: LAN 890

Total credits: 180

(a) Admission requirements

Candidates wishing to research a topic within the discipline of landscape architecture and who

- (1) are in possession of a BL or equivalent degree of four years;
or
- (2) are in possession of an Honours degree in Landscape Architecture, BLHons, or equivalent;
or
- (3) are in possession of a three-year degree with Design as major component and successfully complete supplementary modules with weighting equivalent of an honours degree as prescribed by the head of department;
or
- (4) are deemed adequate by the head of department in consultation with the dean and obtained (where necessary) the approval of the Senate and complying with whatever additional requirements may be prescribed are admitted to the degree Master of Landscape Architecture by research.

(b) Duration and curriculum

After a minimum of one year of registration the student submits a dissertation for examination and takes an oral examination of the dissertation in the related field of study.

(c) Awarding of the degree

The Master of Landscape Architecture degree is conferred on a student who has obtained a minimum of 50% for both the dissertation and oral examination.

(d) Degree with distinction

The Master of Landscape Architecture degree is conferred with distinction on a student obtaining a minimum of 75% in both the dissertation and the oral examination.

(e) Required publication

General Regulation G.61. applies.

B.25 Doctor of Philosophy [PhD] (Code 12262003)
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Refer to General Regulations G.45 to G.62.

Thesis: LAN 990 (360 credits)

- (a) Candidates who have obtained a master's degree in Landscape Architecture or the UP MSc (Applied Science) are admitted to doctoral studies.
- (b) Candidates in possession of a master's degree by coursework may, at the discretion of the head of department, be required to do supplementary coursework prior to commencing studies.
- (c) A PhD student must submit a thesis, which deals with a topic from the discipline of landscape architecture and which provides proof of advanced original research and/or creative work which makes a real and substantial contribution to the field of knowledge and/or practice of landscape architecture.
- (d) A student must submit at least one draft article to a recognised journal for publication, before or concurrent with the submission of the thesis. The draft article

must be based on the research undertaken for the thesis and must be acceptable to the supervisor.

- (e) The doctoral examination, either written or oral, **is compulsory**, and encompasses the content of the thesis as well as the field of study on which the thesis is based.

DEGREES IN APPLIED SCIENCE: DEPARTMENT OF ARCHITECTURE

B.26 Bachelor of Science Honours in Applied Science [BScHons (Applied Science)] (Code 12242000)
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Refer to General Regulations G.16 to G.29 and G.62.

Note: This degree is for those students intending hereafter to pursue a master's degree by research and coursework in applied science in the fields of architecture, landscape architecture or interior architecture or generally in the built environment.

Coursework in modules presented by the department: minimum 60 credits

Coursework, at honours (700) level, presented by other schools or faculties: maximum 60 credits.

Total credits: 120

(a) Admission requirements

A candidate for the degree programme Bachelor of Science Honours in Applied Science :

- (1) must be a graduate with a BSc degree or an equivalent university degree;
or
- (2) must have an appropriate recognised tertiary qualification.
Such a candidate may be required, at the discretion of the head of department to take:
 - (i) an academic literacy test;
 - (ii) a computer skills test;**or**
- (3) must have a qualification deemed adequate by the head of department in consultation with the dean and obtain (where necessary) the approval of the Senate, and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the head of department, be required to be evaluated in prerequisite fields of knowledge and/or register for additional modules for non-degree purposes.

Candidates mentioned in (1), (2) and (3) above

- (i) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (ii) are interviewed for selection;
- (iii) must present a portfolio and/or journal which demonstrates the requisite level of proficiency and competency and is a record of their experience within the field they intend to do research;
- (iv) are selected on merit.

Note: A limited number of candidates are admitted to this programme.

(b) Duration

The minimum period of study is one year full-time.

(c) Curriculum

A curriculum comprising of 120 credits, of which a minimum of 50% of module credits from the modules below and a maximum of 50% from modules from other honours programmes by coursework must be devised in consultation with the postgraduate programme coordinator of the department and approved by the head of department. Students who follow modules presented by other schools or faculties must first obtain permission for such registration(s) from those schools or faculties and must familiarise themselves with the admission requirements of the specific module(s), and the examination rules and regulations pertaining to such a module(s).

Unless the head of department, after consultation with the dean, decides otherwise, the following curriculum applies for those students wishing to hereafter continue with the MSc(Applied Science) degree:

BScHons (Applied Science)	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Practice component	CPD 710 (6 credits) Systems and materials	CPD 720 (6 credits) The idea of "building"	CPD 730 (6 credits) Professional practice	CPD 740 (6 credits) Built environment modelling
Theory component	RFS 710 (6 credits), RFS 720 (6 credits) & RFS 730 (6 credits) <i>May run separately or concurrently over quarters 1-3</i>			RFS 740 (6 credits)
Project component (Note: It is the students' responsibility to have their projects approved by the specific research field coordinator)	One of the following elected courses in quarter 1, 2 or 3 (20 credits) RFP 711/2/3 (research field: environmental potential) RFP 721/2/3 (research field: housing and urban environments) RFP 731/2/3 (research field: heritage and cultural landscapes) Note the last digit in the above module codes are indicative of the study focus: -1: Architecture -2: Landscape architecture -3: Interior architecture			

(d) Admission to examinations and pass requirements

The minimum pass mark is 50%. A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. If a module is not evaluated by examination a minimum coursework mark of 50% is required. If the module is not evaluated by coursework a minimum examination mark of 50% is required.

(e) Awarding of degree

The degree is awarded to those students who have obtained the prescribed credits. Those students admitted with conditions must comply with all of these before all the 700 series module credits and the degree are awarded.

(f) Degree with distinction

The degree is conferred with distinction if students registered for the degree for the first time, complete the degree within the minimum prescribed time and pass all modules with a weighted average of 75%.

B.27 Master of Science in Applied Science [MSc (Applied Science)] (Code 12252006)
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Refer to General Regulations G.1.2, G.30 to G.44 and G.57 tot G.62.

By virtue of a curriculum with coursework and a mini-dissertation.

(a) Admission requirements

Candidates who wish to research a topic within the disciplines of architecture, landscape architecture or interior architecture and in particular related to one of the research fields of the department and who are in possession of

(i) a BScHons or equivalent degree of four years or more;

or

(ii) an honours degree in architecture, landscape architecture or interior architecture or equivalent;

or

(iii) who are deemed adequate by the head of department in consultation with the dean and obtained (where necessary) the approval of the Senate and complying with whatever additional requirements may be prescribed are admitted to the degree Master of Science (Applied Science).

(iv) Candidates are selected on academic merit for admission to studies for the degree.

(b) Duration and curriculum

The minimum period of study is one year.

The curriculum is compiled in consultation with the head of department.

It is the responsibility of students to ascertain that the lectures in the appropriate research field are on offer in the specific year of study. The attendance of lectures is compulsory.

The topic of the mini-dissertation must be approved by the head of department.

MSc (Applied Science)	Year modules
Coursework in the department	RFS 890 (30 credits) Research field studies
Mini-dissertation in the department	ARG 895 (100 credits) Mini-dissertation
Coursework at 800 level at other schools, faculties or departments	30 credits
TOTAL	160 credits

(c) Pass requirements

A minimum of 50% is required in the examination of the coursework, with a minimum final mark of 50% to pass.

A minimum of 50% is required to pass the mini-dissertation.

(d) Awarding of the degree

The MSc (Applied Science) degree is conferred on students obtaining a minimum of 50% for both the coursework and the mini-dissertation.

(e) Degree with distinction

The degree is conferred with distinction on a student who obtains a weighted average of 75%, having obtained at least 75% in the mini-dissertation and a weighted average of at least 70% in the remaining coursework constituting the required credits for RFS module of the degree.

(f) Required publication

General Regulation G.61. applies.

DEGREES IN THE DEPARTMENT OF CONSTRUCTION ECONOMICS

DEGREES IN QUANTITY SURVEYING

Quantity surveying is the science that delivers specialised financial and contractual services and advice to clients in the building and construction industry, as well as in related industries. The quantity surveyor is an independent and professional consultant who works with architects, consulting engineers, and the building contractor, in order to protect the interests of the client, while at the same time also looking after the interests of the contractor and subcontractors.

The student could enter the building or construction industry as a candidate quantity surveyor after he/she has completed the three-year degree. Such qualification, however, would not allow the person to register as a professional quantity surveyor. After completing the honours programme the opportunities become far wider, and application can be made for registration as a professional quantity surveyor at the South African Council for the Quantity Surveying Profession, after further assessment and furnishing of evidence, in compliance with the prescribed competencies. Employment opportunities in the building and construction sector, government departments, in the property sector, banks and manufacturing industry exist for such qualified quantity surveyors. Most, however, work in the private sector where they find employment with quantity surveying practices, or open their own practices.

The examinations for the BScHons degree in Quantity Surveying are approved by the Minister as prescribed examinations in terms of the stipulations of the Quantity Surveying Profession Act (Act No. 49/2000), as well as by the Royal Institution of Chartered Surveyors.

**B.28 Bachelor of Science Quantity Surveying
[BScQS] (Code 12132013)**

(a) Admission requirements

Refer to General information B.1, B.2 and B.3 in this publication.

(b) Duration

The minimum duration of study is three years full-time.

(c) Promotion requirements

(i) Promotion to the second semester of the first year and to the second year of study

- (a) A newly registered first-year student who failed all the prescribed modules for the programme at the end of the first semester shall not be readmitted to the School for the Built environment in the second semester.

- (b) A student who complies with all the requirements of the first year of study, or has at least obtained 110 credits, is promoted to the second year of study.
 - (c) A student who has not obtained at least 70% of the credits of the first year of study after the November examinations must reapply for admission should he/she intend to continue with his/her studies. Written application must be submitted to the student administration of the School for the Built environment no later than 12 January. Late applications will be accepted only in exceptional circumstances after approval by the dean and conditions of readmission as determined by the admissions committee shall apply should first-year students be readmitted.
 - (d) Students who have not passed all the prescribed modules of the first year of study, as well as students who are readmitted in terms of (c) must register for the outstanding modules of the first year.
 - (e) A student who is repeating his/her first year, may, on recommendation of the relevant head of department and with the approval of the dean, be permitted to enrol for modules of the second year of study in addition to the first-year modules which he or she failed, providing that he or she complies with the prerequisites for the second-year modules and that no timetable clashes occur. The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits.
- (ii) **Promotion to the third year of study**
- (a) A student who complies with all the requirements of the second year of study, or has at least obtained 230 credits, is promoted to the third year of study.
 - (b) The dean may, on the recommendation of the head of department, allow a student, who qualifies for promotion to a subsequent year of study, but who has not passed all the modules of that year, to carry over those modules to the next or a later year provided that no timetable clashes occur.
 - (c) The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits.
 - (d) A student who complies with all the requirements for the degree with the exception of one year module or two semester modules, in which a final mark of at least 40% has been obtained, may be admitted to a special examination in the module(s) concerned, at the start of the ensuing semester.
 - (e) The degree is awarded if all the prescribed modules have been passed.
 - (f) On the recommendation of the head of department, the dean may in exceptional circumstances deviate from the abovementioned stipulations, provided that no timetable clashes occur.
- (d) **Degree with distinction**
 The degree is conferred with distinction on a student who has obtained an average of at least 75% for all the prescribed modules, excluding JCP 201, of the final year, or who has obtained at least 75% in two of the following modules (75% average

where the module is composed of two semester modules) and subject to the average of all other modules, excluding JCP 201, not being less than 65%:

- (a) Quantities 300 (HVH 300)
- (b) Quantity surveying practice 300 (BRK 300)
- (c) Building services 312 and 322 (GBD 312/322) (average 75%)
- (d) Building science 310 and 320 (BWT 310/320) (average 75%) .

The degree will only be conferred with distinction if it was completed within the minimum prescribed time, and if the final-year modules were passed on first registration without any supplementary or special examinations.

(e) Curriculum

The curriculum is extended over three study years in semester modules and year modules with the prerequisites and module credits as indicated.

The symbol GS after a module indicates that a combined (final) mark (semester/year mark plus examination mark) of 40% - 49% is required for admission to the module in the first column.

Total number of credits required: 403

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BOU 111	Building drawings 111	-	6
BWT 110	Building science 110	-	9
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
GBD 112	Building services 112	-	6
HVH 101	Quantities 101	-	12
SKE 110	Introduction to structures 110	-	9
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		73
Second semester			
BDO 181	Industrial and organisational psychology 181	-	5
BGG 121	Building organisation 121	-	6
BOU 121	Building drawings 121	-	6
BWT 120	Building science 120	BWT 110 GS	9
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
GBD 122	Building services 122	-	6
HVH 101	Quantities 101	-	12
OMG 122	History of the environment 122	-	6
SKE 120	Structures 120	SKE 110 GS	9
STK 161	Statistics 161	STK 110 GS	6
	Total		75

* Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR**First semester**

BWT 210	Building science 210	BWT 110 GS	9
		BWT 120 GS	
EKN 110	Economics 110	-	10
FRK 111	Financial accounting 111	-	10
GBD 212	Building services 212	-	6
HVH 200	Quantities 200	BWT 110 GS	12
		BWT 120 GS	
		HVH 101	
SKE 210	Reinforced concrete structures 210	SKE 120 GS	9
TRN 213	Site surveying 213	-	12
	Total		68

Second semester

BWT 220	Building science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10
FRK 121	Financial accounting 121	FRK 111 GS	12
GBD 222	Building services 222	-	6
HVH 200	Quantities 200	BWT 110 GS	12
		BWT 120 GS	
		HVH 101	
INF 181*	Informatics 181	FRK 111 GS	3
OMG 224	History of the environment 224	-	6
SKE 220	Civil engineering services 220	-	9
	Total		67

*A student who obtained at least 5 (60-69%) in Accounting in the Grade 12 examination, may register for INF 181 in the first semester.

THIRD YEAR**First semester**

BER 310	Business law 310	-	16
BRK 300	Quantity surveying practice 300	HVH 200 GS	9
BWT 310	Building science 310	-	9
GBD 312	Building services 312	-	6
HVH 300	Quantities 300	BWT 210 GS	
		BWT 220 GS	
		GBD 112 GS	12
		GBD 122 GS	
		HVH 200	
JCP 201	Community-based project 201	-	4
KIT 311	Construction information technology and communication 311	-	12
	Total		68

Second semester

BHU 320	Housing 320	-	6
BRK 300	Quantity surveying practice 300	HVH 200 GS	9
BWT 320	Building science 320	-	9
EOW 320	Introduction to property law 320	-	6
GBD 322	Building services 322	GBD 312 GS	6

HVH 300	Quantities 300	BWT 210 GS BWT 220 GS GBD 112 GS GBD 122 GS HVH 200	12
JCP 201	Community-based project 201 Total	-	4 52

B.29 Bachelor of Science Honours Quantity Surveying [BSChonsQS] (Code 12242014)
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Refer to General Regulations G.16 to G.29 and G.62.

(a) Admission requirements

Subject to the stipulations of the General Regulations, a BSc Quantity Surveying degree or equivalent qualification as well as practical experience which is deemed adequate by the head of department is required for admission. It may be required of students to pass ancillary undergraduate modules during the first year of study.

(b) Duration

The minimum period of study is two years. A student is required to attend lectures diligently, but in addition, to work for the remainder of the day in the offices of a registered quantity surveyor on tasks which meet the requirements for registration in terms of the Quantity Surveying Profession Act.

(c) Examination admission

A minimum semester/year mark of 40% is required in order to be admitted to the examination in a specific module. In addition, all other examination admission requirements, applicable to the relevant module, must have been met.

(d) Supplementary examinations

No supplementary examinations are granted at postgraduate level.

(e) Special examinations

No special examinations are granted at postgraduate level.

(f) Promotion and complying with degree requirements

- (i) A student is promoted to the second year after acquiring a minimum of 70 credits for modules completed in the first year of study.
- (ii) The degree is awarded when all prescribed modules have been passed.

(g) Degree with distinction

The degree is conferred with distinction when a student has obtained a combined average of at least 75% for all the prescribed modules, excluding POU 720, of the final year, or who has obtained at least 75% in two of the modules as indicated below (75% average where the module is composed of two semester modules) and subject to the average of all the other modules, excluding POU 720, not being less than 65%.

- (a) Quantity surveying practice 700 (BRK 700)
- (b) Construction contract law 730 and 740 (KKR 730/740)
(average 75%)
- (c) Building cost estimation 700 (BKR 700)

(d) Feasibility studies 700 (EOW 700)

(e) Research report 785 (BRK 785)

The degree will only be conferred with distinction if it was completed within the minimum prescribed time, and if the final-year modules were passed on first registration without any supplementary or special examinations.

(h) Curriculum

The curriculum is extended over two years in semester modules and year modules with the prerequisites and module credits as indicated.

The symbol GS after a module indicates a combined (final) mark (semester/year mark plus examination mark) of 40% - 49% required for admission to the module in the first column.

Total number of credits required: 173

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BKR 700	Building cost estimation 700	-	12
BRK 700	Quantity surveying practice 700	-	9
BTP 700	Management practice 700	-	12
EOW 710	Property financial mathematics 710	-	6
HVH 700	Quantities 700	-	12
	Total		51
Second semester			
BKR 700	Building cost estimation 700	-	12
BRK 700	Quantity surveying practice 700	-	9
BTP 700	Management practice 700	-	12
HVH 700	Quantities 700	-	12
	Total		45
SECOND YEAR			
First semester			
BRK 785	Research report 785	-	12
EOW 700	Feasibility studies 700	EOW 710 GS	9
KKR 730	Construction contract law 730	-	12
KPB 730	Construction project management 730	-	9
	Total		42
Second semester			
BRK 785	Research report 785	-	12
EOW 700	Feasibility studies 700	EOW 710 GS	9
KKR 740	Construction contract law 740	KKR 730 GS	12
POU 720	Practical development feasibility 720	-	2
	Total		35

DEGREES IN CONSTRUCTION MANAGEMENT

Construction management is the field of study meant for the person who wishes to become part of the process of infrastructure development, especially the construction of buildings. The construction manager is a professional business person who acts as manager for undertakings in the building, construction and property industry as well as related support services.

Career opportunities cover a wide spectrum and construction managers find employment as main and subcontractors in the building and construction industry, as project managers or investment experts with financial institutions and property developers, as property experts who offer broker services and compile packages, as managers of building and property portfolios for investors, as suppliers of material and equipment to the building and construction industry, as consultants for financial services in the construction and related sectors, or as private entrepreneurs working in these fields.

The examinations of the BScHons degree in Construction Management are recognised by the minister as prescribed examinations in terms of the stipulations as described in the Project and Construction Management Professions Act (Act No 48/2000), as well as by the Chartered Institute of Building.

B.30 Bachelor of Science Construction Management [BSc Construction Management] (Code 12132017)

(a) Admission requirements

Refer to General information B.1, B.2 and B.3 in this publication.

(b) Duration

The minimum duration of study is three years full-time.

(c) Promotion requirements

(i) Promotion to the second semester of the first year and to the second year of study

- (a) A newly registered first-year student who failed all the prescribed modules for the programme at the end of the first semester shall not be readmitted to the School for the Built environment in the second semester.
- (b) A student who complies with all the requirements of the first year of study, or has at least obtained 110 credits, is promoted to the second year of study.
- (c) A student who has not obtained at least 70% of the credits of the first year of study after the November examinations must reapply for admission should he/she intend to continue with his/her studies. Written application must be submitted to the student administration of the School for the Built environment no later than 12 January. Late applications will be accepted only in exceptional circumstances after approval by the dean and conditions of readmission as determined by the admissions committee shall apply should first-year students be readmitted.
- (d) Students who have not passed all the prescribed modules of the first year of study, as well as students who are readmitted in terms of (c) must register for the outstanding modules of the first year.
- (e) A student who is repeating his/her first year, may, on recommendation of the relevant head of department and with the

approval of the dean, be permitted to enrol for modules of the second year of study in addition to the first-year modules which he or she failed, providing that he or she complies with the prerequisites for the second-year modules and that no timetable clashes occur. The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits.

(ii) **Promotion to the third year of study**

- (a) A student who complies with all the requirements of the second year of study, or has at least obtained 230 credits, is promoted to the third year of study.
- (b) The dean may, on the recommendation of the head of department, allow a student, who qualifies for promotion to a subsequent year of study, but who has not passed all the modules of that year, to carry over those modules to the next or a later year provided that no timetable clashes occur.
- (c) The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits.
- (d) A student who complies with all the requirements for the degree with the exception of one year module or two semester modules, in which a final mark of at least 40% has been obtained, may be admitted to a special examination in the module(s) concerned, at the start of the ensuing semester.
- (e) The degree is awarded if all the prescribed modules have been passed.
- (f) On the recommendation of the head of department, the dean may in exceptional circumstances deviate from the abovementioned stipulations, provided that no timetable clashes occur.

(d) **Degree with distinction**

The degree is conferred with distinction on a student who has obtained an average of at least 75% for all the prescribed modules, excluding JCP 201, of the final year, or who has obtained at least 75% in two of the following modules (75% average where the module is composed of two semester modules) and subject to the average of all other modules, excluding JCP 201, not being less than 65%:

- (a) Construction quantities 300 (KSH 300)
- (b) Construction management 310 and 320 (KBS 310/320) (average 75%)
- (c) Building science 310 en 320 (BWT 310/320) (average 75%)
- (d) Building services 312 en 322 (GBD 312/322) (average 75%)

The degree will only be conferred with distinction if it was completed within the minimum prescribed time, and if the final-year modules were passed on first registration without any supplementary or special examinations.

(e) **Curriculum**

The curriculum is extended over three study years in semester modules and year modules with the prerequisites and module credits as indicated.

The symbol GS after a module indicates that a combined (final) mark (semester/year mark plus examination mark) of 40%-49% is required for admission to the module in the first column.

Total number of credits required: 423

Built Environment 2010

	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BOU 111	Building drawings 111	-	6
BWT 110	Building science 110	-	9
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
GBD 112	Building services 112	-	6
HVH 101	Quantities 101	-	12
SKE 110	Introduction to structures 110	-	9
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		73
Second semester			
BDO 181	Industrial and organisational psychology 181	-	5
BGG 121	Building organisation 121	-	6
BOU 121	Building drawings 121	-	6
BWT 120	Building science 120	BWT 110 GS	9
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
GBD 122	Building services 122	-	6
HVH 101	Quantities 101	-	12
OMG 122	History of the environment 122	-	6
SKE 120	Structures 120	SKE 110 GS	9
STK 161	Statistics 161	STK 110 GS	6
	Total		75

* Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR

First semester

ABR 311	Labour law 311	-	20
BWT 210	Building science 210	BWT 110 GS BWT 120 GS	9
EKN 110	Economics 110	-	10
FRK 111	Financial accounting 111	-	10
GBD 212	Building services 212	-	6
KSH 201	Construction quantities 201	BWT 110 GS BWT 120 GS HVH 101	12
SKE 210	Reinforced concrete structures 210	SKE 120 GS	9
TRN 213	Site surveying 213	-	12
	Total		88

Second semester

BWT 220	Building science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10

FRK 121	Financial accounting 121	FRK 111 GS	12
GBD 222	Building services 222	-	6
INF 181	Informatics 181	FRK 111 GS	3
KSH 201	Construction quantities 201	BWT 110 GS	12
		BWT 120 GS	
		HVH 101	
OMG 224	History of the environment 224	-	6
SKE 220	Civil engineering services 220	-	9
	Total		67

* A student who obtained at least 5 (60 - 69%) in Accounting in the Grade 12 examination, may register for INF 181 in the first semester.

THIRD YEAR

First semester

BER 310	Business law 310	-	16
BWT 310	Building science 310	-	9
GBD 312	Building services 312	-	6
JCP 201	Community-based project 201	-	4
KBS 310	Construction management 310	-	9
KIT 311	Construction information technology and communication 311		12
KSH 300	Construction quantities 300	BWT 210 GS	12
		BWT 220 GS	
		GBD 112 GS	
		GBD 122 GS	
		KSH 201	
	Total		68

Second semester

BHU 320	Housing 320	-	6
BWT 320	Building science 320	-	9
EOW 320	Introduction to property law 320	-	6
GBD 322	Building services 322	GBD 312 GS	6
JCP 201	Community-based project 201	-	4
KBS 320	Construction management 320	-	9
KSH 300	Construction quantities 300	BWT 210 GS	
		BWT 220 GS	
		GBD 112 GS	12
		GBD 122 GS	
		KSH 201	
	Total		52

B.31 Bachelor of Science Honours Construction Management [BScHons Construction Management)] (Code 12242015)
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Refer to General Regulations G.16 to G.29 and G.62.

(a) Admission requirements

Subject to the stipulations of the General Regulations, a BSc Construction Management degree or equivalent qualification as well as practical experience

which is deemed adequate by the head of department is required for admission. It may be required of students to pass ancillary undergraduate modules during the first year of study.

(b) Duration

The minimum period of study is two years.

A student is required to attend lectures diligently, but in addition, to work full-time for the remainder of the day for a suitable employer in the building/construction industry.

(c) Examination admission

A minimum semester/year mark of 40% is required in order to be admitted to the examination in a specific module. In addition, all other examination admission requirements, applicable to the relevant module, must have been met.

(d) Supplementary examinations

No supplementary examinations are granted at postgraduate level.

(e) Special examinations

No special examinations are granted at postgraduate level.

(f) Promotion and complying with degree requirements

(i) A student is promoted to the second year after acquiring a minimum of 70 credits for modules completed in the first year of study.

(ii) The degree is awarded when all prescribed modules have been passed.

(g) Degree with distinction

The degree is conferred with distinction on a student who has obtained a combined average of at least 75% for all the prescribed modules, excluding POU 720, of the final year, or who has obtained at least 75% in two of the modules as indicated below (75% average where the module is composed of two semester modules) and subject to the average of all the other modules, excluding POU 720, not being less than 65%.

(a) Financial management 701 (FMT 701)

(b) Construction contract law 730 and 740 (KKR 730/740)
(average 75%)

(c) Construction project management 730 (KPB 730) and Construction Entrepreneurship 740 (KEN 740) (average 75%)

(d) Feasibility studies 700 (EOW 700)

(e) Research report 785 (KBS 785)

(h) Curriculum

The curriculum is extended over two years in semester modules and year modules with the prerequisites and module credits as indicated.

The symbol GS after a module indicates a combined (final) mark (semester/year mark plus examination mark) of 40% - 49% required for admission to the module in the first column.

Total number of credits required: 182

Code	Module	Prerequisites	Credits
First year of study			
First semester			
EOW 710	Property financial mathematics 710	-	6
FMT 700	Financial management 700	-	12
KBS 710	Construction management 710	-	9
KSH 700	Construction quantities 700	-	12
	Total		39
Second semester			
FMT 700	Financial management 700	-	12
KBS 720	Construction management 720	-	9
KEN 740	Construction entrepreneurship 740	-	9
KSH 700	Construction quantities 700	-	12
	Total		42
Second year of study			
First semester			
EOW 700	Feasibility studies 700	EOW 710 GS	9
FMT 701	Financial management 701	FMT 700 GS	12
KBS 785	Research report 785	-	12
KKR 730	Construction contract law 730	-	12
KPB 730	Construction project management 730	-	9
	Total		54
Second semester			
EOW 700	Feasibility studies 700	EOW 710 GS	9
FMT 701	Financial management 701	FMT 700 GS	12
KBS 785	Research report 785	-	12
KKR 740	Construction contract law 740	KKR 730 GS	12
POU 720	Practical development feasibility 720	-	2
	Total		47

DEGREES IN REAL ESTATE

Real estate is the study of fixed property and related aspects such as property economics, development, management, valuation, financing, investment and marketing.

Apart from a future in areas such as property investment, property finance and facilities and property management, further studies to obtain an honours degree in real estate can lead to registration as a professional property valuer. Career opportunities encompass the whole spectrum of the property sector, whether as entrepreneurs in the private sector or as employees in the private, government or semi-governmental sectors.

B.32 Bachelor of Science Real Estate [BSc Real Estate] (Code 12132016)

(a) Admission requirements

Refer to General information B.1, B.2 and B.3 in this publication.

(b) Duration

The minimum duration of study is three years full-time.

(c) Promotion requirements

(i) Promotion to the second semester of the first year and to the second year of study

- (a) A newly registered first-year student who failed all the prescribed modules for the programme at the end of the first semester shall not be readmitted to the School for the Built Environment in the second semester.
- (b) A student who complies with all the requirements of the first year of study, or has at least obtained 110 credits, is promoted to the second year of study.
- (c) A student who has not obtained at least 70% of the credits of the first year of study after the November examinations must reapply for admission should he/she intend to continue with his/her studies. Written application must be submitted to the Student administration of the School for the Built Environment no later than 12 January. Late applications will be accepted only in exceptional circumstances after approval by the dean and conditions of readmission as determined by the admissions committee shall apply should first-year students be readmitted.
- (d) Students who have not passed all the prescribed modules of the first year of study, as well as students who are readmitted in terms of (c) must register for the outstanding modules of the first year.
- (e) A student who is repeating his/her first year, may, on recommendation of the relevant head of department and with the approval of the dean, be permitted to enrol for modules of the second year of study in addition to the first-year modules which he or she failed, providing that he or she complies with the prerequisites for the second-year modules and that no timetable clashes occur. The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits

(ii) Promotion to the third year of study

- (a) A student who complies with all the requirements of the second year of study, or has at least obtained 230 credits, is promoted to the third year of study.
- (b) The dean may, on the recommendation of the head of department, allow a student, who qualifies for promotion to a subsequent year of study, but who has not passed all the modules of that year, to carry over those modules to the next or a later year provided that no timetable clashes occur.
- (c) The number of credits per semester for which a student registers may not exceed the prescribed number of credits per semester by more than 16 credits.
- (d) A student who complies with all the requirements for the degree with the exception of one year module or two semester modules, in which a final mark of at least 40% has been obtained, may be

admitted to a special examination in the module(s) concerned, at the start of the ensuing semester.

- (e) The degree is awarded if all the prescribed modules have been passed.
- (f) On the recommendation of the head of department, the dean may in exceptional circumstances deviate from the above-mentioned stipulations, provided that no timetable clashes occur.

(d) Degree with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75% for all the prescribed modules, excluding JCP 201, of the final year, or who has obtained at least 75% in two of the following modules (75% average where the module is composed of two semester modules) and subject to the average of all other modules, excluding JCP 201, not being less than 65%:

- (a) Institutional and Legal structures for planning 310 (TRP 310)
- (b) Housing 320 (BHU 320)
- (c) Building services 312 and 322 (GBD 312/322) (average 75%)
- (d) Building science 310 and 320 (BWT 310/320) (average 75%).

The degree will only be conferred with distinction if it was completed within the minimum prescribed time, and if the final-year modules were passed on first registration without any supplementary or special examinations.

(e) Curriculum

The curriculum is extended over three study years in semester modules and year modules with the prerequisites and module credits as indicated.

The symbol GS after a module indicates that a combined (final) mark (semester/year mark plus examination mark) of 40% - 49% is required for admission to the module in the first column.

Total number of credits required: 408

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BOU 111	Building drawings 111	-	6
BWT 110	Building science 110	-	9
CIL 111	Computer literacy 111	-	4
EOT 110*	Academic literacy 110	-	6
GBD 112	Building services 112	-	6
HVH 101	Quantities 101	-	12
TPA 110	Site analysis and assessment 110	-	16
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		80
Second semester			
BDO 181	Industrial and organisational psychology 181	-	5
BGG 121	Building organisation 121	-	6
BOU 121	Building drawings 121	-	6

Built Environment 2010

BWT 120	Building science 120	BWT 110 GS	9
CIL 121	Information literacy 121	-	4
EOT 120*	Academic literacy 120	-	6
GBD 122	Building services 122	-	6
HVH 101	Quantities 101	-	12
OMG 122	History of the environment 122	-	6
RES 151	Introduction to research 151	-	6
STK 161	Statistics 161	STK 110 GS	6
	Total		72

* Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR

First semester

BWT 210	Building science 210	BWT 110 GS	9
		BWT 120 GS	
EKN 110	Economics 110	-	10
FRK 111	Financial accounting 111	-	10
GBD 212	Building services 212	-	6
GMC 110	Cartography 110	-	4
HVH 200	Quantities 200	BWT 110 GS	12
		BWT 120 GS	
		HVH 101	
	Total		51

Second semester

BWT 220	Building science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10
FRK 121	Financial accounting 121	FRK 111 GS	12
GBD 222	Building services 222	-	6
HVH 200	Quantities 200	BWT 110 GS	12
		BWT 120 GS,	
		HVH 101	
INF 181*	Informatics 181	FRK 111 GS	3
OMG 224	History of the environment 224	-	6
SKE 220	Civil engineering services 220	-	9
TPD 220	Theory of strategic and integrated development planning 220	-	16
	Total		83

* A student who obtained at least 5 (60-69%) in Accounting in the Grade 12 examination, may register for INF 181 in the first semester.

THIRD YEAR

First semester

BER 310	Business law 310	-	16
BWT 310	Building science 310	-	9
GBD 312	Building services 312	-	6
TRP 310	Institutional and legal structures for planning 310	-	20
JCP 201	Community-based project 201	-	4

KIT 311	Construction information technology and communication 311		12
	Total		67
Second semester			
BHU 320	Housing 320	-	6
TPS 220	Settlement establishment and housing delivery 220	-	16
BWT 320	Building science 320	-	9
EOW 320	Introduction to property law 320	-	6
GBD 322	Building services 322	GBD 312 GS	6
TPU 261	Urban land development economics 261	-	8
JCP 201	Community-based project 201	-	4
	Total		55

MASTER'S PROGRAMMES

Refer to General Regulations G.30 to G.44 and G.57 to G.62.

Subject to the stipulations of Regulations G.1.3, G.30 and G.62, a BScHons degree or equivalent qualification and practical experience which is deemed adequate by the head of department, is required for admission. Supplementary undergraduate modules may be prescribed during the first year of study. The degree may be obtained in one of two ways, namely by virtue of a dissertation and an examination or by virtue of a taught curriculum and a mini-dissertation. The requirements for the two options are set out below.

(a) By virtue of a dissertation and examination

(i) Duration and curriculum

- (a) The degree is conferred on the basis of a dissertation and examination on the field of study of the dissertation and/or divisions of the field of study as required by the head of department.
- (b) The minimum duration is one year during which the student works under supervision of the head of department.

(ii) Examination and pass requirements

The minimum pass mark is 50% for both the dissertation and the examination. The degree is conferred with distinction when a student obtains at least 75% in the examination and the dissertation.

(b) By virtue of a curriculum with coursework and a mini-dissertation

(i) Duration and curriculum

- (a) The degree can be obtained by successfully completing a curriculum with coursework and a mini-dissertation.
- (b) The modules are presented in block weeks. The attendance of block weeks is compulsory. All examinations are conducted at the Department of Construction Economics, South Campus, University of Pretoria.
- (c) The minimum period of study is two years part-time.
- (d) The curriculum is compiled in consultation with the head of department.

(ii) **Pass requirements**

- (a) A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass.
- (b) Examination requirements are set out in the departmental study manuals.
- (c) The topic of the mini-dissertation must be approved by the head of department and a minimum of 50% is required to pass.
- (d) The degree is conferred with distinction on a student who obtains a weighted average of at least 75% in half of the required modules, at least 75% in the mini-dissertation and a weighted average of at least 65% in the remaining modules, constituting the required credits for the MSc Real Estate) degree.

B.33 Master of Science Quantity Surveying
[MScQS] by means of a dissertation and examination (Code 12252010)
MSc (Applied Science) (Code 12252018)

- (a) Dissertation: BRK 890

B.34 Master of Science Construction Management
[MSc Construction Management] by means of a dissertation and examination
(Code 12252012)
[MSc (Applied Science)] (Code 12252019)

- (a) Dissertation: KBS 891

B.35 Master of Science Real Estate
[MSc Real Estate] by means of a dissertation and examination (Code 12252020)
[MSc Real Estate] by means of coursework and a mini-dissertation (Code 12252015)
[MSc (Applied Science)] (Code 12252017)

- (a) Dissertation: EMW 890
 (b) Mini-dissertation: EMW 892

With reference to paragraph (b)(i)(d) above, the curricula for MSc Real Estate degree per coursework and mini-dissertation are compiled from the modules listed below.

In order to be considered for the MSc Real Estate degree by coursework to be awarded, a candidate should have obtained a minimum of 120 credits for modules and in addition, have submitted and passed an applicable mini-dissertation (60 credits), i.e. a total of 180 credits.

MSc Real Estate

Compulsory modules	Credits
EBS 801 Property management 801	20
EDW 801 Property valuation 801	20
EDW 802 Property valuation 802	20
EMW 892 Mini-dissertation 892	60
EOW 801 Property development 801	20
EOW 822 Property development 822	10
FAM 822 Facilities management 822	10
NNM 820 Research methodology 820	10
PMN 820 Property investment 820	10
	<u>180</u>

Supplementary modules

Depending on the qualifications of an applicant, the head of department may prescribe any or all of the following supplementary modules during the first year of study:

BTP 600 Management practice preparatory 600

BWT 600 Building science preparatory 600

GBD 600 Building services preparatory 600

DOCTORAL PROGRAMMES

Refer to General Regulations G.45 to G.62.

- (a) No student will be admitted to the study for a doctor's degree unless he or she holds an applicable master's degree.
- (b) A PhD student must submit a thesis which deals with a topic from the list of subject disciplines.
- (c) The doctoral examination, either written or oral, is compulsory, and covers the content of the thesis as well as the sections of the field of study on which the thesis is based.

**B.36 Doctor of Philosophy
[PhD] (Code 12262014)**

Thesis: BRK 990

**B.37 Doctor of Philosophy
[PhD] (Code 12262015)**

Thesis: KBS 990

**B.38 Doctor of Philosophy
[PhD] (Code 12262016)**

Thesis: EMW 990

DEGREES IN THE DEPARTMENT OF TOWN AND REGIONAL PLANNING

Town and regional planning is primarily concerned with the planning, design, implementation and management of public interventions in the development and use of land from site to supranational level so as to widen choice, promote equity and ensure sustainable development. The guiding motive of the profession is the generation of viable alternatives to present settlement types. At the current juncture in South Africa's history, town and regional planning is a key profession in the rectification of the spatial and other imbalances in both urban and rural areas, as well as the improvement of inefficient and under-performing living environments.

The ideal town and regional planner is a creative person who is able to put forward innovative solutions to complex problems, a mediator who is able to reconcile diverse points of view, a strategic thinker and a good manager. Given the enormous backlogs in the fields of housing and social services and the misery in which many South Africans find themselves, planners also need a strongly developed sense of social and environmental justice and be committed to human development. While the majority of town and regional planners act as private consultants to the public and the private sector, they are also employed by all three spheres of government, research agencies such as the CSIR and the

HSRC, non-governmental organisations, community-based organisations, major financial institutions and property development groups.

B.39 Bachelor of Town and Regional Planning [BT&RP] (Code 12132022)
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- (a) **Admission requirements**
Refer to General information B.1, B.2 and B.3 in this publication.
- (b) **Duration**
The minimum duration of study is four years full-time.
- (c) **Promotion requirements**
 - (i) **Promotion to the second semester of the first year and to the second year of study**
 - (a) A new first-year student who fails all the prescribed modules for the programme at the end of the first semester shall not be readmitted to the School for the Built Environment in the second semester.
 - (b) A student is promoted to the second year provided the student (1) has obtained at least 100 credits; and (2) is not repeating more than one first-year town and regional planning module per semester.
 - (c) A student who is not promoted to the second year of study in terms of (b) may not register for second-year Town and regional planning modules.
 - (d) Students who have not obtained at least 100 credits of the first year of study after the November examinations must apply for re-admission should they intend to proceed with their studies. Written application must be submitted to the student administration for the School for the Built Environment no later than 12 January. Late applications will only be accepted under exceptional circumstances and with approval by the dean. If first year students are readmitted, conditions of readmission will be set by the admissions committee.
 - (e) Students who have not passed all the prescribed modules of the first year of study, as well as students who are readmitted in terms of (d) must register for the outstanding modules of the first year.
 - (ii) **Promotion to the third year of study**
 - (a) A student is promoted to the third year provided the student (1) has obtained at least 210 credits; (2) is not repeating more than one second-year town and regional planning module per semester; and (3) is not repeating any first-year Town and regional planning module.
 - (b) A student who is not promoted to the third year of study in terms of (a) may not register for third-year Town and regional planning modules.
 - (iii) **Promotion to the fourth year of study**
 - (a) A student is promoted to the fourth year provided the student (1) has obtained at least 310 credits; (2) is not repeating more than one third-year Town and regional planning module per semester; and (3) is not repeating any second-year town and regional planning module.
 - (b) A student who is not promoted to the fourth year of study in terms of (a) may not register for fourth-year town and regional planning modules.

- (c) A student who complies with all the requirements for the degree with the exception of one year module or two semester modules, in which a final mark of at least 40% has been obtained, may be admitted to a special examination in the module(s) concerned at the start of the ensuing semester.
- (d) The degree is awarded if all the prescribed modules have been passed.

(d) Degree with distinction

The degree is conferred with distinction when a student complies with all the prescribed requirements and has passed the following modules of the fourth year simultaneously with an average of at least 75% and a weighted average of 70% in all the prescribed modules of the final year of study:

- The future of planning (TRP 400)
- Planning interventions: Metropolitan areas (TPI 451)
- Planning interventions: Urban areas (TPI 452)
- Planning interventions: Supranational, national and regional scale (TPI 453)
- Planning interventions: Peri-urban and rural areas (TPI 454)
- Essay (TPE 400)

(e) Curriculum

Total credits: 655

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
TPA 110	Site analysis and assessment 110	-	16
TRP 110	Introduction to planning 110	-	12
TRP 111	Planning and settlement histories 111	-	12
CIL 111	Computer literacy 111	-	4
EKN 110	Economics 110	-	10
EOT 110*	Academic literacy 110	-	6
GGY 158	Geographical skills 158	-	4
SOC 110	Sociology 110	-	12
STK 110	Statistics 110	Maths 4 (50-59%)	13
	Total		89
Second semester			
TPA 120	Settlement analysis and assessment 120	-	16
TPS 120	Principles of settlement design 120	-	12
TRP 121	Planning and settlement histories 121	-	12
CIL 121	Information literacy 121	-	4
EKN 120	Economics 120	EKN 110 GS	10
EOT 120*	Academic literacy 120	-	6
SOC 120	Sociology 120	SOC 110	12
STK 120	Statistics 120	STK 110 GS	13
	Total		85

*Students who did not pass the Academic Literacy Test must register for EOT 110 and 120 offered by the Unit for Academic Literacy. (See Regulation B.5.)

SECOND YEAR

First semester

TPA 210	Plan and policy analysis and assessment 210	-	12
TPD 210	Development planning 210	-	12
TPS 210	Settlement design concepts 210	-	16
TPU 210	Land use management theory 210	-	16
GGY 283	Introductory GIS 283	-	12
JCP 201	Community-based project 201	-	4
SOC 210	Sociology 210	SOC 120	20
	Total		92

Second semester

TPD 220	Theory of strategic and integrated development planning 220	-	16
TPS 220	Settlement establishment and housing delivery 220	-	16
TPU 261	Urban land development economics 261	-	8
TPU 262	Land use management practice 262	-	8
GGY 266	City structure, environment and society	-	20
JCP 201	Community-based project 201	-	4
RES 151	Introduction to research 151	-	6
SOC 220	Sociology 220	SOC 120	20
	Total		98

THIRD YEAR

First semester

TPS 310	Spatial concepts 310	-	16
TRP 310	Institutional and legal structures for planning 310	-	20
TRP 300	Planning futures 300	-	9
RES 261	Methods for critical thinking and research 261	RES 151	10
MDS 321	Municipal services provision 321	-	6
SVB 321	Transport planning 321	-	4
	Total		65

Second semester

TPD 320	Local economic development 320	-	12
TPD 321	Participatory planning 321	-	12
TPS 320	Metropolitan, district and local spatial planning 320	-	16
TRP 300	Planning futures 300	-	9
BHU 320	Housing 320	-	6
EOW 320	Introduction to property law 320	-	6
FIL 355	Ethics 355	-	15
	Total		76

* Students, who have registered for the third year for the first time in or before 2010, and have not passed SOC 210 yet, must register and pass the module to comply with degree requirements.

FOURTH YEAR**First semester**

TPE 400	Research report 400	-	20
TPI 453	Planning interventions: Metropolitan areas 453	-	16
TPI 451	Planning interventions: Urban areas 451	-	16
TRP 400	The future of planning 400	-	10
PRF 412	Professional practice 412	Final year only	8
	Total		70

Second semester

TPE 400	Research report 400	-	20
TPI 452	Planning interventions: Peri-urban and rural areas 452	-	16
TPI 454	Planning interventions: Supranational, national and regional scale 454	-	16
TRP 400	The future of planning 400	-	10
POU 720	Practical development feasibility 720	Final year only	2
SEV 421	Environmental geotechnology 421	-	16
	Total		80

Transitional arrangements

1. Students, who registered for the **first year** for the first time in **2009 or before** and who have not yet passed GGY 132 and/or GGY 162, must register and pass GGY 158 to comply with degree requirements.
2. Only students, who register for the first time as a **first-year student** during **2010**, must register and pass SOC 110 and SOC 120 to comply with degree requirements.
3. Students, who registered for STK 113 and/or 123 **during or before 2009** for the first time for the **first year** and who have not passed it, must register and pass these modules to comply with degree requirements.
4. Students, who registered for the **second year** for the first time in **2009 or before** and who have not yet passed GGY 263 and/or GGY 264, must register and pass GGY 266 to comply with degree requirements.
5. Students, who registered for the **second year** for the first time in **2009 or before** and who have not yet passed PAD 210, must register and pass PAD 212 to comply with degree requirements.
6. Only students, who register for the first time for the **second year** in **2010 or thereafter**, must register and pass SOC 220 to comply with degree requirements.
7. Students who register for the **third year** for the first time in **2010 and thereafter**, must register and pass FIL 355 to comply with degree requirements.

B.40 Master of Town and Regional Planning [MT&RP]
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Refer to the General Regulations G.30 to G.44 and G.57 to G.62.

- (a) **Code 12252022: By virtue of an examination and a dissertation**
Subject to the stipulations of General Regulations G.30, G.37 en G.38 the BT&RP degree or an acceptable qualification, as well as practical experience deemed adequate by the head of department are required for admission to the study for the MT&RP degree.
- (i) The Master's degree [MT&RP] is conferred by virtue of a dissertation as well as related assignments as prescribed by the head of department including an academic article for publication and an examination in the field of the dissertation and/or sections thereof as required by the head of department/supervisor.
 - (ii) Supplementary undergraduate modules for the MT&RP degree may be prescribed for students who have not obtained a BT&RP degree.
 - (iii) The minimum pass mark is 50% in both the dissertation and examination and the degree is conferred with distinction on a student who obtains at least 75% in both the examination and dissertation.
 - (iv) The minimum duration of study is one academic year, during which a student will work under supervision of the head of department/supervisor.
 - (v) The successful completion of a relevant module in research methodology is a prerequisite for approval of the study proposal.

Dissertation: SSB 890 (180 credits)

- (b) **Code 12252023: By virtue of coursework and a mini-dissertation**
Subject to the stipulations of General Regulations G.30, G.37 and G.38, a relevant four-year degree, or a relevant three-year degree plus honours degree, or a relevant three-year degree plus a minimum of five years relevant experience, is required for admission to the MT&RP degree programme.
This master's degree is obtained by virtue of coursework and a mini-dissertation. Supplementary undergraduate modules for the MT&RP degree may be prescribed for students who have not obtained a BT&RP degree. A minimum final mark of 50% is required and the degree is conferred with distinction on a student who obtains a weighted average of at least 75% in the examinations of all the prescribed core modules as well as the mini-dissertation.
- (c) **Duration**
The minimum duration of study is two years.
- (d) **Curriculum**
Total credits: 240

Code Module

TPE 800 Mini-dissertation 800 (100 credits)

The head of department must approve the topic of the mini-dissertation.

Research methodology, presented or prescribed by the department, is a requirement (Note: Research methodology is not for credit purposes.)

For students with an undergraduate qualification in Town and regional planning, modules to the value of at least 60 credits need to be taken from the following core modules:

For students without an undergraduate qualification in Town and regional planning, modules to the value of at least 120 credits need to be taken from the following core modules:

- TPU 810 Land use management and land development 810 (20 credits)
- TPS 810 Sustainable settlement planning and design 810 (20 credits)
- TPS 820 Design for safety 820 (10 credits)
- TPD 820 Integrated development planning 820 (20 credits)
- TPI 811 Metropolitan and urban area-based interventions 811 (20 credits)
- TPI 821 Regional interventions 821 (20 credits)
- TRP 800 An overview of planning theory and practice 800 (20 credits)

Remaining credits must be taken from the core modules above and/or the following level- 8 modules in consultation with the head of department:

Modules can be taken from the master's degree programmes in:

- Civil and transportation engineering (School of Engineering);
- Environment and society (School of Physical sciences);
- Public management (School of Public Management and Administration);
- Rural development (School of Agricultural and Food Sciences);
- Economics (Faculty of Economic and Management Sciences);
- Other modules as approved by the head of department.

For the students without an equivalent module in Planning law in a former under/postgraduate qualification in Town and regional planning, the following module needs to be successfully completed as a prerequisite for obtaining the MT&RP degree in addition to the prescribed modules:

TRP 310 – Institutional and legal structures for planning 310 (not for credit purposes).

B.41 Doctor of Philosophy [PhD] (Code 12262022)
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Refer to General Regulations G.45 to G.62.

- (a) A candidate is admitted to doctoral studies only if he or she holds a master's degree. A student must have successfully completed a relevant module in research methodology in order for his/her study proposal to be approved.
- (b) A student for the PhD degree must submit a thesis as well as an academic article(s) dealing with a topic in the field of study.
- (c) An oral and/or written doctoral examination is required dealing with the contents of the thesis as well as the subject matter of the discipline on which it is based.

Thesis: SSB 990 (360 credits)

SYLLABI

Note:

The list of modules and the module descriptions are available at:
<http://web.up.ac.za/modules>

