This is an excerpt of the yearbook published on the web and should not be taken as the final document as it may be subject to change.

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

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

SECTION III (separate publication)

SCHOOL OF INFORMATION TECHNOLOGY

- Informatics
- Information Science
- Computer Science

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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 (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.

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

Number restrictions

If limited human resources and/or facilities are available, number restrictions will be applied.

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.

Language of tuition

In conducting its general business, the University uses two official languages, namely Afrikaans and English.

In formal education the language of tuition is either English or Afrikaans, 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 module and any further level of that module 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 English or Afrikaans. Where the University has the capacity, Sepedi is used as an additional language of communication.

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, registration and start of the academic year

Details of the welcoming day to which all parents are cordially invited, and the subsequent programme for registration and start of the academic year during which all new first-year students **must** be present, are obtainable from the office of the Director: Student Affairs.

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.

Leave of absence

If it is impossible for a registered student at the University of Pretoria to continue with his/her studies/research in a specific year, but he/she intends to continue in the following year, the student must apply in writing to the Dean of the relevant faculty for **leave of absence**. The application must include: full names, student number, address, reasons and period for leave of absence, for example the whole year, first semester (January to June) or second semester (July to December), name of supervisor (where applicable), and the student's intentions for the period after his/her leave of absence. However, in accordance with the policy of the University of Pretoria, leave of absence is not granted for more than two years. Any outstanding fees should be paid in full upon the student's return from his/her leave of absence

Degree with distinction

Weighted averages (GPA), together with other faculty-specific criteria if applicable, are used at UP to calculate averages for the determination of distinctions.

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.

Grade point average based on module credits: an average mark that is calculated by multiplying the final mark achieved in a module with the credit value of that module and then dividing the sum of these values by the total of the credit values of all the modules for which a student was enrolled. The result of these calculations is a weighted average based on module credits.

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.

REGULATIONS FOR BACHELOR'S DEGREES

Please read all faculty regulations in conjunction with the G Regulations.

B.1 Admission to degree study

The G Regulations G.1 to G.15 are applicable to all bachelor's degrees. Where the G Regulations 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:
 - 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.

Please 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) 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 G Regulations G.1.3 and G.54, 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.

<u>Life orientation</u> 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. <u>Please note</u>: 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 2017:

Study programme		Minimum requirements			
Duration	Closing date	Achievement levels		vels	4.00
SCHOOL T	HE BUILT ENVIRONMENT	Afrikaans or English	Mathematics	Physical Science	APS
BScArch – Bachelor of Science Architecture [3 years] Old: (12132002) New: (12132018)	Closing dates: SA – 30 June Non-SA – 30 June Will only be considered as first study choice Selection programme – selection includes an interview	5	4	4	27
BScInt – Bachelor of Science Interior Architecture [3 years]	Closing dates: SA – 30 June Non-SA – 30 June Will only be considered as first study choice	5	4	4	27

Old: (12132008) New: (12132020)	Selection programme – selection includes an interview				
BScLArch – Bachelor of Science Landscape Architecture [3 years] Old: (12132004) New: (12132019)	Closing dates: SA – 30 June Non-SA – 30 June Selection programme – selection includes an interview	5	4	Physical Science or Geography or Life Sciences 4	27
BSc – Construction Management [3 years] Old: (12132017) New: (12132025)	Closing dates: SA – 30 June Non-SA – 30 June Selection programme	5	5	Physical Science or Accounting 4	30
BSc – Real Estate [3 years] Old: (12132016) New: (12132024)	Closing dates: SA – 30 June Non-SA – 30 June Selection programme	5	5	Physical Science or Accounting 4	30
BScQS – Bachelor of Science Quantity Surveying [3 years] Old: (12132013) New: (12132023)	Closing dates: SA – 30 June Non-SA – 30 June Selection programme	5	5	Physical Science or Accounting 4	30
BT&RP – Bachelor of Town and Regional Planning [4 years] Old:(12132022) New: (12132026)	Closing dates: SA – 30 June Non-SA – 30 June Selection programme	5	4	-	27

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 information management

Academic information management (AIM 101) is presented as a compulsory module in the first semester and Academic information management (AIM 102) is presented as a compulsory module in the second semester for Achitecture.

B.5 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.6 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 secondsemester 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.7 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.8 Examinations

8.1 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.

8.2 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.

8.3 Pass requirements

Refer to G 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 G 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.

8.4 Ancillary examinations

Refer to G Regulation G.12.3.

8.4.1 No ancillary or special examinations are granted in any design modules (all ONT modules) in the Department of Architecture.

8.5 Supplementary examinations

Refer to G 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 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).

8.6 Special examinations (including the aegrotat)

Refer to G Regulation G.12.5.

- A medical certificate will not be accepted where it states that a student appeared ill or declared him/herself unfit to write the examination.
- (ii) The doctor must be consulted on or before the date on which the

examination was scheduled.

8.7 Other special examinations

Refer to G 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.

8.8 Re-marking of examination scripts

Refer to G Regulation G.14.

B.9 Promotion requirements

- (a) Students whose academic progress is not acceptable can be suspended from further studies. Refer to the following important regulations:
 G Regulation G.3 and/or
 - B.11(d); B.16(d) or B.21(d), Department of Architecture or
 - B.28(c) and B.30(c), B.32(c) Department of Construction Economics or B.39(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 12 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 CONFERRED IN THE SCHOOL FOR THE BUILT ENVIRONMENT

The rules for the degrees published in this Yearbook are subject to change and may be amended prior to the commencement of the academic year in 2017. The General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of each student to familiarise himself or herself well with these regulations. Ignorance concerning these regulations will not be accepted as an excuse for any transgression. The following degrees are awarded in the School for the Built Environment (minimum duration in brackets):

REGULATIONS FOR UNDERGRADUATE AND POSTGRADUATE PROGRAMMES IN THE SCHOOL FOR THE BUILT ENVIRONMENT						
	Programme	Old code	New code	Page		
1.	Department of Architecture					
1.1	Architecture					
1.1.1	Bachelor of Science Architecture [BScArch]	12132002	12132018	12		
1.1.2	Bachelor of Architecture Honours [BArchHons]	12242003	12242005	15		
1.1.3	Master of Architecture (Professional) [MArch(Prof)]	12252005	12252026	16		
1.1.4	Master of Architecture (Research) [MArch(Research)]	12252002	12252025	18		
1.1.5	Doctor of Philosophy in Architecture [PhD]	12262002	12262004	19		
1.2	Interior Architecture					
1.2.1	Bachelor of Science Interior Architecture [BScInt]	12132008	12132020	19		
1.2.2	Bachelor of Interior Architecture Honours [BIntHons]	12242006	12242007	22		
1.2.3	Master of Interior Architecture (Professional) [Mint(Prof)]	12252—7	12252028	23		
1.2.4	Master of Interior Architecture (Research) [Mint(Research)]	12252004	12252027	24		
1.2.5	Doctor of Philosophy in Interior Architecture [PhD]	12262008	12262009	25		
1.3	Landscape Architecture					
1.3.1	Bachelor of Science Landscape Architecture [BScLarch]	12132004	12132019	26		
1.3.2	Bachelor of Landscape Architecture Honours [BLHons]	12242004	12242008	29		
1.3.3	Master of Landscape Architecture (Professional) [ML(Prof)]	12252008	12252030	30		

	Programme	Old code	New code	Page
1.3.4	Master of Landscape Architecture (Research) [ML (Research)]	12252003	12252029	31
1.3.5	Doctor of Philosophy in Landscape Architecture [PhD]	12262003	12262005	32
1.4	Applied Science			
1.4.1	Bachelor of Science Honours in Applied Science [BScHons (Applied Science)]	12242000	12242001	33
1.4.2	Masters of Science in Applied Science Architecture (Coursework) [MSc(Applied Science) (Architecture) (CW)	12252006	12252009	35
2.	DEPARTMENT OF CONSTRUCT	TION ECONOMI	cs	
2.1	Quantity Surveying			
2.1.1	Bachelor of Science Quantity Surveying [BScQS]	12132013	12132023	36
2.1.2	Bachelor of Science Honours Quantity Surveying [BScHonsQS]	12242014	12242017	39
2.1.3	Master of Science Quantity Surveying (Research) [MSc(QS)(Research)]	12252010	12252031	40
2.1.4	Doctor of Philosophy in Quantity Surveying [PhD]	12262014	12262017	41
2.2	Construction Management			
2.2.1	Bachelor of Science Construction Management [BSc Construction Management]	12132017	12132025	41
2.2.2	Bachelor of Science Honours Construction Management [BScHons Construction Management]	12242015	12242018	44
2.2.3	Master of Science Construction Management (Research) [MSc Construction Management (Research)]	12252012	12252032	45
2.2.4	Doctor of Philosophy in Construction Management [PhD]	12262015	12262018	46
2.3	Real Estate			
2.3.1	Bachelor of Science Real Estate) [BSc Real Estate]	12132016	12132024	47
2.3.2	Bachelor of Science Honours Real Estate [BScHons Real Estate]	12242016	12242019	49

	Programme	Old code	New code	Page
2.3.3	Bachelor of Science Honours Real Estate Retail Property [BScHons Real Estate Retail Property]		12242020	51
2.3.4	Master of Science Real Estate (Research) [MSc Real Estate (Research)]	12252020	12252033	51
2.3.5	Master of Science Real Estate (Coursework) [MSc Real Estate (CW)]	12252015	12252934	52
2.3.6	Masters of Science Real Estate Retail Property (Coursework) [MSc Real Estate Retail Property(CW)]		12252037	53
2.3.7	Doctor of Philosophy in Real Estate [PhD]	12262016	12262019	54
3.	DEPARTMENT OF TOWN AND I	REGIONAL PLA	NNING	
3.1	Town and regional planning			
3.1.1	Bachelor of Town and Regional Planning [BT&RP]	12132022	12132026	55
3.1.2	Master of Town and Regional Planning (Research) [MT&RP (Research)]	12252022	12252035	58
3.1.3	Master of Town and Regional Planning (Coursework) [MT&RP (CW)]	12252023	12252036	59
3.1.4	Doctor of Philosophy in Town and Regional Planning [PhD]	12262022	12262023	60

1. DEGREES IN THE DEPARTMENT OF ARCHITECTURE

1.1 DEGREES IN ARCHITECTURE

1.1.1 BSc Architecture

Bachelor of Science Architecture 12132018

Duration of study: 3 years

Contact

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Programme Information

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 architectural technologist, and BArchHons as candidate senior architectural technologist, at the South African Council for the Architectural Profession. A 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).

Admission Requirements

Please see Reg. B.2.1 on page 5.

Other programme-specific information Concurrent presentation

In the third year of study Design, Construction, Design communication, Environmental studies and Earth studies must initially be examined in the same year.

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

Promotion to next study year

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.

Please 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.

Pass with Distinction

The degree is conferred with distinction on a student who, at first registration, passes all modules of the final year of study with a weighted average of 75%. The degree must have been completed within the minimum prescribed time and no supplementary/special examinations may have been written.

Curriculum: Year 1

Minimum Credits: 116 Semester one Fundamental UPO 112 Academic orientation 112 - Credits: 0.00 Core AAI 110 Farth studies 110 - Credits: 10.00 ARC 110 Elective module 110 - Credits: 6.00 KON 111 Construction 111 - Credits: 8.00 OML 110 Environmental theory 110 - Credits: 6.00 ONT 100 Design 100 - Credits: 60.00 (year module) Semester two Core AIM 102 Academic information management 102 - Credits: 6.00 KON 121 Construction 121 - Credits: 8.00 OKU 120 Design communication 120 - Credits: 6.00 OML 120 Environmental studies 120 - Credits: 6.00 Curriculum: Year 2 Minimum Credits: 136 Semester one Core AAL 210 Farth studies 210 - Credits: 8.00 JCP 201 Community-based project 201 - Credits: 8.00 KON 210 Construction 210 - Credits: 8.00 OML 210 Environmental theory 210 - Credits: 6.00 ONT 200 Design 200 - Credits: 60.00 (year module) Theory of structures 211 - Credits: 8.00 STU 211 Semester two Core AAL 224 Earth studies 224 - Credits: 4.00 GGY 265 Geomorphology of the built environment 265 - Credits: 12.00 KON 220 Construction 220 - Credits: 8.00 OML 220 Environmental studies 220 - Credits: 6.00 STU 221 Theory of structures 221 - Credits: 8.00 Curriculum: Final Year Minimum Credits: 152 Semester one Core BER 310 Business law 310 - Credits: 16.00 KON 310 Construction 310 - Credits: 8.00 OMG 310 History of the environment 310 - Credits: 6.00 OML 310 Environmental studies 310 - Credits: 6.00 ONT 300 Design 300 - Credits: 60.00 (year module) STU 311 Theory of structures 311 - Credits: 8 Elective Either GGY 283 Introductory geographic information systems 283 - Credits: 14.00 OKU 313 Design communication 313 - Credits: 6.00

Semester two

Core

AAL 320 Earth studies 320 - Credits: 6.00 KON 320 Construction 320 - Credits: 8.00

OMG 320 History of the environment 320 - Credits: 6.00
OML 320 Environmental studies 320 - Credits: 6.00
PJS 320 Practice management 320 - Credits: 8.00
STU 321 Theory of structures 321 - Credits: 8.00

1.1.2 BArchHons Architecture

Bachelor of Architecture Honours 12242005

Duration of study: 1 year

Contact

Dr. C. Combrinck +27 (0) 4206536 (pers no: 5075718) Mr N Botes +27 (0)124204600

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,

- 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.

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

Additional Requirements

Also refer to G Regulations G.16 to G.29 and G.54.

Other programme-specific information

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.

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.

Pass 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%.

Curriculum: Final Year Minimum Credits: 120

Core

Professional practice (may run separately or concurrently over quarters 1-4)

CPD 710 Continuing practice development 710 - Credits: 6.00
CPD 720 Continuing practice development 720 - Credits: 6.00
CPD 730 Continuing practice development 730 - Credits: 6.00
CPD 740 Continuing practice development 740 - Credits: 6.00

Research field studies (offered over quarters 1-4)
RFS 710 Research field studies 710 - Credits: 32.00

Research field project (may run separately or concurrently over guarters 1-4)

RFP 710 Research field project 710 - Credits: 16.00 RFP 711 Research field project 711 - Credits: 16.00 RFP 721 Research field project 721 - Credits: 16.00 RFP 731 Research field project 731 - Credits: 16.00

1.1.3 MArch (Professional)

Master of Architecture (Professional) 12252026

Duration of study: 1 year

Contact

Prof. A. Barker +27 (0)124205777 (personnel no: 04374886)Mr N Botes +27 (0)124204600

Programme Information

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 minidissertation and design project and discourse.

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 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

- 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.

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

Additional Requirements

Also refer to G Regulations G.30 to G.40 and G. 50 to G.54.

Other programme-specific information

Design topic

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

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.

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.

Research Information

General Regulation G.39.12 applies.

Pass 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 minidissertation (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.

Curriculum: Final Year Minimum Credits: 180

Core

Practice component

CPD 810 Continuing practice development 810 - Credits: 15.00

Theory component

DIT 801 Design investigation 801 - Credits: 75.00

Project component

DPD 801 Mini-dissertation: Design project and discourse 801 - Credits: 90.00

1.1.4 MArch Architecture (Research)

Master of Architecture (Research) 12252025

Duration of study: 1 year

Contact

Prof. B Jekot +27 (0) 124204052 (pers no: 4214595)

Programme Information

By virtue of a dissertation and examination.

Refer to G Regulations G.30 to G.40 and G. 50 to G.54.

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;

01

(ii) an honours degree in Architecture BArchHons or equivalent;

OI

(iii) a three-year degree with Design as major component and who successfully complete supplementary modules with the 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 Senate and complying with whatever additional requirements may be prescribed are admitted for the degree Master of Architecture (by research).

Examinations and pass requirements

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.

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.

Research Information

The G Regulation G.39.12 applies.

Pass 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.

Curriculum: Final Year Minimum Credits: 180

Core

ARG 890 Dissertation: Architecture 890 - Credits: 180.00

1.1.5 PhD Architecture

Doctor of Philosophy in Architecture

12262004

Duration of study: 2 years

Contact

Prof. B Jekot +27 (0) 124204052 (pers no: 4214595)

Programme Information

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.

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. Also refer to G Regulations G.42 to G.54.

Additional Requirements

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.

Examinations and pass requirements

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.

Curriculum: Final Year Minimum Credits: 360

Core

ARG 990 Thesis: Architecture 990 - Credits: 360.00

1.2 DEGREES IN INTERIOR ARCHITECHTURE

1.2.1 BSc Interior Architecture

Bachelor of Science Interior Architecture 12132020 Duration of study: 3 years

Duration of Study. 3 yea

Contact

Prof. B Jekot +27 (0) 124204052 (pers no: 4214595)

Programme Information

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 lifestyle 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 become professional Interior architects must hereafter apply to register for the BlntHons degree (one year full-time) and the Mlnt(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].

Admission Requirements

See Reg. B.2.1 on page 5.

Additional Requirements

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

Other programme-specific information

Concurrent presentation

In the third year of study Design, Construction, Design communication, Environmental studies, Earth studies and Material studies must initially be examined in the same year.

Awarding of degree

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

Promotion to next study year

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.

Please 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.

Pass 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.

Curriculum: Year 1 Minimum Credits: 116

Semester one Fundamental

UPO 112 Academic orientation 112 - Credits: 0.00

Core

AAL 110 Earth studies 110 - Credits: 10.00
ARC 110 Elective module 110 - Credits: 6.00
KON 111 Construction 111 - Credits: 8.00

OML 120 Environmental studies 120 - Credits: 6.00 ONT 100 Design 100 - Credits: 60.00 (year module)

Semester two

Core

AIM 102	Academic information	management	102 -	Credits: 6.00
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KON 121 Construction 121 - Credits: 8.00

OKU 120 Design communication 120 - Credits: 6.00 OML 110 Environmental theory 110 - Credits: 6.00

Curriculum: Year 2 Minimum Credits: 134

Semester one

Core

AAL 210 Earth studies 210 - Credits: 8.00

JCP 201 Community-based project 201 - Credits: 8.00 (year module)

KON 210 Construction 210 - Credits: 8.00

OML 210 Environmental theory 210 - Credits: 6.00 ONT 203 Design 203 - Credits: 60.00 (year module)

TKS 212 Textiles: Utilities, fibres and yarns 212 - Credits: 14.00

Semester two

Core

AAL 223 Earth studies 223 - Credits: 4.00
AAL 224 Earth studies 224 - Credits: 4.00
KON 220 Construction 220 - Credits: 8.00
MST 223 Material studies 223 - Credits: 8.00

OML 220 Environmental studies 220 - Credits: 6.00

Curriculum: Final Year Minimum Credits: 152

Semester one

Core

BER 310 Business law 310 - Credits: 16.00
KON 310 Construction 310 - Credits: 8.00
MST 313 Material studies 313 - Credits: 8.00
OKU 313 Design communication 313 - Credits: 6.00

OMG 310 History of the environment 310 - Credits: 6.00 OML 310 Environmental studies 310 - Credits: 6.00 ONT 303 Design 303 - Credits: 60.00 (year module)

Semester two

Core

AAL 320 Earth studies 320 - Credits: 6.00 KON 320 Construction 320 - Credits: 8.00 MST 323 Material studies 323 - Credits: 8.00

OMG 320 History of the environment 320 - Credits: 6.00 OML 320 Environmental studies 320 - Credits: 6.00 PJS 320 Practice management 320 - Credits: 8.00

1.2.2 BIArchHons Interior Architecture

Bachelor of Interior Architecture Honours 12242007

Duration of study: 1 year

Contact

Prof BP Jekot +27 (0)124204052 (pers no: 4214595)

Admission Requirements

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

- must be a graduate for the degree 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 HOD to take:
 - (i) an academic literacy test;
 - (ii) a computer skills test; or
- (3) must have a qualification deemed adequate by the HOD in consultation with the Dean and obtain (where necessary) the approval of Senate and comply with any other prescribed requirements.

Candidates mentioned in (2) and (3) above may, at the discretion of the HOD, 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:

- should preferably have had practical experience and/or have done and recorded an extended study exursion;
- (ii) are intereviewed 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.

Please note: The number of candidate admitted to this programme is restricted.

Other programme-specific information

Refer to G Regulations G.16 to G.29 and G.54.

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.

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.

Pass 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%.

Main curriculum

Unless the HOD, after consultattion with the Dean, decides otherwise, for those students wishing hereafter to continue with the MInt(Prof) degree, the following curriculum applies:

Curriculum: Final Year Minimum Credits: 120

Core

Professional practice (may run separately or concurrently over quarters 1-4)

CPD 710 Continuing practice development 710 - Credits: 6.00
CPD 720 Continuing practice development 720 - Credits: 6.00
CPD 730 Continuing practice development 730 - Credits: 6.00
CPD 740 Continuing practice development 740 - Credits: 6.00

Research field studies (offered over quarters 1-4)
RFS 730 Research field studies 710 - Credits: 32.00

Research field project (may run separately or concurrently over quarters 1-4)

RFP 713 Research field project 713 - Credits: 16.00 RFP 723 Research field project 723 - Credits: 16.00 RFP 730 Research field project 730 - Credits: 16.00 RFP 733 Research field project 733 - Credits: 16.00

1.2.3 MIntArch Professional

Master of Interior Architecture (Professional) 12252028

Duration of study: 1 year

Contact

Prof BP Jekot +27 (0)124204052 (pers no: 4214595)

Programme Information

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

Refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

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

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

Candidates mentioned in (ii) and (iii) 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 (i) (ii) and (iii) above:

- (a) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (b) are interviewed for selection;

- (c) 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:
- (d) are selected on merit.

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

Other programme-specific information Design topic

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

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.

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.

Research Information

G Regulation G.39.12 applies with regard to the required publication.

Pass 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 minidissertation (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.

Curriculum: Final Year Minimum Credits: 180

Core

Practice component

CPD 810 Continuing practice development 810 - Credits: 15.00

Theory component

DIT 803 Design investigation 803 - Credits: 75.00

Project component

DPD 803 Mini-dissertation: Design project and discourse 803 - Credits: 90.00

1.2.4 MintArch Interior Architecture (Research)

Master of Interior Architecture (Research) 12252027 Duration of study: 1 year

Contact

Prof BP Jekot +27 (0)124204052 (pers no 4214595)

Programme Information

By virtue of dissertation and examination.

Refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

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

(i) are in possession of a Blnt or equivalent degree of four years or more:

or

or

- (ii) are in possession of an honours degree in Interior architecture BIntHons or equivalent:
- (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 Senate and complying with whatever additional requirements may be prescribed are admitted for the degree Master of Interior Architecture (by research).

Examinations and pass requirements

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

Research Information

The G Regulation G.39.12 applies.

Pass 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.

Curriculum: Final Year Minimum Credits: 180

Core

INT 890 Dissertation: Interior architecture 890 - Credits: 180.00

1.2.5 PhD Interior Architecture

Doctor of Philosophy in Interior Architecture 12262009

Duration of study: 2 years

Prof BP Jekot +27 (0)124204052 (pers no 4214595)

Programme Information

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.

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.

Also refer to G Regulations G.42 to G.54.

Additional Requirements

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.

Examinations and pass requirements

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.

Curriculum: Final Year Minimum Credits: 360

Core

INT 990 Thesis: Interior architecture 990 - Credits: 360.00

1.3 DEGREES IN LANDSCAPE ARCHITECTURE

1.3.1 BSc Landscape Architecture

Bachelor of Science Landscape Architecture 12132019 Duration of study: 3 years

Contact

Mr GA Young +27 (0)124202580 (pers no. 2398664)

Programme Information

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.

BScLArch 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. Candidates

wishing to become professional landscape architects must hereafter apply to register for the BLHons degree (one year fulltime), and thereafter the ML(Prof) degree (one year fulltime).

Admission Requirements

See Reg. B.2.1 on page 6.

Additional Requirements

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

Other programme-specific information

Concurrent presentation

In the third year of study Design, Construction, Environmental studies, Plant science and Earth studies must be examined in the same year.

Awarding of degree

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

Promotion to next study year

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.

Please 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;
- a student after repeating any year of study, is not promoted to the following year of study.

Pass 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.

Curriculum: Year 1 Minimum Credits: 116

Semester one Fundamental

UPO 112 Academic orientation 112 - Credits: 0.00

Core

ALL 110 Academic literacy 110 - Credits: 6.00
ARC 110 Elective module 110 - Credits: 6.00
KON 111 Construction 111 - Credits: 8.00

OML 110 Environmental theory 110 - Credits: 6.00

ONT 100 Design 100 - Credits: 60.00 (year module) Semester two Core AIM 102 Academic information management 102 - Credits: 6.00 Construction 121 - Credits: 8.00 KON 121 OKU 120 Design communication 120 - Credits: 6.00 OML 120 Environmental studies 120 - Credits: 6.00 Curriculum: Year 2 Minimum Credits: 144 Semester one Core AAL 210 Earth studies 210 - Credits: 8.00 GKD 250 Introductory soil science 250 - Credits: 12.00 Community-based project 201 - Credits: 8.00 (year module) JCP 201 Construction 210 - Credits: 8.00 KON 210 I AN 212 Landscape architecture 212 - Credits: 8.00 OML 210 Environmental theory 210 - Credits: 6.00 ONT 202 Design 202 - Credits: 60.00 (year module) Semester two Core GGY 265 Geomorphology of the built environment 265 - Credits: 12.00 Construction 220 - Credits: 8.00 KON 220 LAN 222 Landscape architecture 222 - Credits: 8.00 OMI 220 Environmental studies 220 - Credits: 6.00 **Curriculum: Final Year** Minimum Credits: 152 Semester one Core Earth studies 320 - Credits: 6.00 AAL 320 BER 310 Business law 310 - Credits: 16.00 KON 310 Construction 310 - Credits: 8.00 OKU 313 Design communication 313 - Credits: 6.00 OMG 310 History of the environment 310 - Credits: 6.00 OML 310 Environmental studies 310 - Credits: 6.00 ONT 302 Design 302 - Credits: 60.00 (year module) Plant science 312 - Credits: 8.00 PWT 312 Semester two Core Earth studies 320 - Credits: 6.00 AAL 320 KON 320 Construction 320 - Credits: 8.00 OMG 320 History of the environment 320 - Credits: 6.00 OML 320 Environmental studies 320 - Credits: 6.00 PJS 320 Practice management 320 - Credits: 8.00 PWT 322 Plant science 322 - Credits: 8.00

1.3.2 BLArchHons Landscape Architecture

Bachelor of Landscape Architecture Honours 12242008

Duration of study: 1 year

Contact

Prof. P. Vosloo +27(0)12 4204218 (pers no: 2365103)

Programme Information

Also refer to G Regulations G.16 to G.29 and G.54.

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 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:

- 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.

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.

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.

Pass 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%.

Curriculum: Final Year Minimum Credits: 120

Core

Professional practice (may run separately or concurrently over quarters 1-4)

CPD 710 Continuing practice development 710 - Credits: 6.00
CPD 720 Continuing practice development 720 - Credits: 6.00
CPD 730 Continuing practice development 730 - Credits: 6.00
CPD 740 Continuing practice development 740 - Credits: 6.00

Research field studies (offered over quarters 1-4)
RFS 720 Research field studies 702 - Credits: 32.00

Research field project (may run separately or concurrently over quarters 1-4)

RFP 712 Research field project 712 - Credits: 16.00 RFP 720 Research field project 720 - Credits: 16.00 RFP 722 Research field project 722 - Credits: 16.00 RFP 732 Research field project 732 - Credits: 16.00

1.3.3 MLArch (Professional)

Master of Landscape Architecture (Professional) 12252030 Duration of study: 1 year

Contact

Mr JN Prinsloo +27(0)12 4204313 (pers no. 4176812)

Programme Information

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 Architectural 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. Also refer to the G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

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

- (i) must be a graduate with a BLHons degree or an equivalent university degree; or
- (ii) must have an appropriate recognised tertiary qualification at honours degree level; or
- (iii) must have a qualification deemed adequate by the Head of Department in consultation with the Dean and obtain (where necessary) the approval of Senate and comply with any other prescribed requirements.

Candidates mentioned in (ii) and (iii) 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 (i) (ii) and (iii):

- (a) should preferably have had practical experience and/or have done and recorded an extended study excursion;
- (b) are interviewed for selection:
- (c) 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;
- (d) are selected on merit.

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

Additional Requirements

Other programme-specific information

Design topic

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

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.

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.

Research Information

G Regulation G.39.12. applies.

Pass 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 minidissertation (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.

Curriculum: Final Year Minimum Credits: 180

Practice component

CPD 810 Continuing practice development 810 - Credits: 15.00

Theory component

DIT 802 Design investigation 802 - Credits: 75.00

Project component

DPD 802 Mini-dissertation: Design project and discourse 802 - Credits: 90.00

1.3.4 MLArch Landscape Architecture

Master of Landscape Architecture (Research) 12252029

Duration of study: 1 year

Contact

Prof. P. Vosloo +27(0)12 4204218 (pers no: 2365103)

Programme Information

By virtue of dissertation and examination. Also refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

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

- (i) are in possession of a BL or equivalent degree of four years; or
- (ii) are in possession of an Honours degree in Landscape Architecture BLHons or equivalent; or
- (iii) are in possession of a three-year degree with Design as major component and successfully complete supplementary modules with the 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 Senate and complying with whatever additional requirements may be prescribed are admitted to the degree Master of Landscape Architecture by research.

Examinations and pass requirements

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.

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.

Research Information

G Regulation G.39.12 applies.

Pass 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.

Curriculum: Final Year Minimum Credits: 180

Core

LAN 890 Dissertation: Landscape architecture 890 - Credits: 180.00

1.3.5 PhD Landscape Architecture

Doctor of Philosophy in Landscape Architecture 12262005

Duration of study: 2 years

Contact

Prof BP Jekot +27 (0)124204052 (pers no 4214595)

Programme Information

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.

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.

Refer to the G Regulations G.42 to G.54.

Additional Requirements

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.

Examinations and pass requirements

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.

Curriculum: Final Year Minimum Credits: 360

Core

LAN 990 Thesis: Landscape architecture 990 - Credits: 360.00

1.4 DEGREES IN APPLIED SCIENCE

1.4.1 BScHons Applied Science

Bachelor of Science Honours in Applied Science 12242001

Duration of study: 1 year

Contact

Dr. C. Combrinck +27 (0) 4206536 (pers no: 5075718)

Programme Information

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.

Refer to G Regulations G.16 to G.29 and G.54.

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 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 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

- 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.

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

Other programme-specific information

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).

(Please Note: it is the students' responsibility to have their projects approved by the specific research field coordinator)

Course work modules at honours level (700) presented by other departments, schools or faculities (maximum 30 credits) . Students may register for other honours (700) level modules presented in the Department of Architecture with the approval of the Head of Department.

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.

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.

Research Information

The G Regulation G.39.12 applies.

Pass 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%.

Curriculum: Final Year Minimum Credits: 120

Core

Theory component

RFS 700 Theory component (Capita selecta) 700 - Credits: 30.00 A capita selecta from one of the following Research fields:

- Environmnt potential
- Human settlements and urbanism
- Heritage and cultural landscapes

Project component

RFP 700 Project component (Capita selecta) 700 - Credits: 60.00

A capita selecta from one of the following Research fields:

- Environment potential
- Human settlements and urbanism
- Heritage and cultural landscapes

Additional modules

Coursework modules at honours (700) level presented by other departments, schools or faculties (max. 30 credits) - Students may register for other honours (700) level modules presented in the Department of Architecture with the approval of the Head of Department.

1.4.2 MSc Applied Science Architecture (Coursework)

Masters of Science in Applied Science Architecture (Coursework) 12252009

Duration of study: 2 years

Contact

Dr. C. Combrinck +27 (0) 4206536 (pers no: 5075718)

Programme Information

By virtue of a curriculum with coursework and a mini-dissertation. Also refer to G Regulations G.1.2, G.30 to G.40 and G.50 to G.54.

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 a BScHons or equivalent degree of four years or more or an honours degree in architecture landscape architecture or interior architecture or equivalent or who are deemed adequate by the Head of Department in consultation with the Dean and obtained (where necessary) the approval of Senate and complying with whatever additional requirements may be prescribed are admitted to the degree Master of Science (Applied Science).

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

Other programme-specific information

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.

Examinations and 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.

Research Information

G Regulation G.39.12 applies.

Pass 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.

Curriculum: Final Year Minimum Credits: 180

Core

ARG 895 Mini-dissertation 895 - Credits: 110.00 RFS 890 Research field studies 890 - Credits: 35.00

Additional modules

Coursework modules at 800 level presented by other departments, schools or faculties (max. 35 credits).

2. DEGREES IN THE DEPARTMENT OF CONSTRUCTION ECONOMICS

2.1 DEGREES IN QUANTITY SURVEYING

2.1.1 BSc Quantity Surveying

Bachelor of Science Quantity Surveying 12132023 Duration of study: 3 years

Contact

Mr DJ Hoffman +27 (0)124202551

Programme Information

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 without acquiring additional qualifications. After completing the honours programme the opportunities become far wider, and application can be made for registration as a professional quantity surveyor with 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 registered quantity surveyors. Most, however, work in the private sector where they become employees/ partners/ directors of 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.

Admission Requirements

Please see Reg. B.2.1 on page 6.

Other programme-specific information

Please Note: Students with Maths 4, should take STK 113 and STK 123 (instead of STK 110) during their first year of study and STK 120 during their second year of study.

The degree is awarded if all the prescribed modules have been passed.

Promotion to next study year

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 secondyear 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.
- 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. 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.

Pass with Distinction

The degree is conferred with distinction on a student:

- if no module of the second and third study year was repeated and a weighted average of at least 75% was obtained in one year in all the modules (excluding JCP 201), of the final study year;
- ii. the degree programme was completed within the prescribed three study years, and the final study year modules were passed on first registration without any supplementary or special examinations.

Curriculum: Year 1 Minimum Credits: 141 Semester one **Fundamental** AIM 101 Academic information management 101 - Credits: 6.00 ALL 122 Academic literacy for Construction Economics 122 - Credits: 6.00 UPO 112 Academic orientation 112 - Credits: 0.00 Core BGG 121 Building organisation 121 - Credits: 3.00 BOU 111 Building drawings 111 - Credits: 6.00 BWT 110 Building science 110 - Credits: 9.00 EKN 110 Economics 110 - Credits: 10.00 GBD 112 Building services 112 - Credits: 6.00 HVH 101 Quantities 101 - Credits: 24.00 (year module) SKE 110 Introduction to structures 110 - Credits: 9.00 WTW 134 Mathematics 134 - Credits: 16.00 Semester two Core BOU 121 Building drawings 121 - Credits: 6.00 BWT 120 Building science 120 - Credits: 9.00 FKN 120 Fconomics 120 - Credits: 10.00 GBD 122 Building services 122 - Credits: 6.00 OMG 122 History of the environment 122 - Credits: 6.00 SKF 120 Structures 120 - Credits: 9.00 Curriculum: Year 2 Minimum Credits: 123 Semester one Core BWT 210 Building science 210 - Credits: 9.00 FBS 110 Financial management 110 - Credits: 10.00 GBD 211 Building services 211 - Credits: 6.00 HVH 200 Quantities 200 - Credits: 24.00 (year module) SKE 210 Reinforced concrete structures 210 - Credits: 9.00 STK 110 Statistics 110 - Credits: 13.00 Site surveying 213 - Credits: 12.00 TRN 213 Semester two Core BWT 220 Building science 220 - Credits: 9.00 FBS 120 Financial management 120 - Credits: 10.00 GBD 221 Building services 221 - Credits: 6.00 Civil engineering services 220 - Credits: 9.00 SKE 220 STK 161 Statistics 161 - Credits: 6.00 **Curriculum: Final Year** Minimum Credits: 150 Semester one Core BER 310 Business law 310 - Credits: 16.00

BRK 300 Quantity surveying practice 300 - Credits: 18.00 (year module)

Financial management 210 - Credits: 16.00

BWT 310 Building science 310 - Credits: 9.00

FBS 210

GBD 311 Building services 311 - Credits: 6.00

HVH 300 Quantities 300 - Credits: 24.00 (year module)

JCP 201 Community-based project 201 - Credits: 8.00 (year module)

Semester two

Core

BHU 320 Housing 320 - Credits: 6.00

BWT 320 Building science 320 - Credits: 9.00

FBS 320 Introduction to property law 320 - Credits: 6.00 FBS 320 Financial management 320 - Credits: 20.00 NNM 320 Research methodology 320 - Credits: 6.00 VKN 320 Sustainable construction 320 - Credits: 6.00

2.1.2 BScHons Quantity Surveying

Bachelor of Science Honours Quantity Surveying

12242017

Duration of study: 1 year

Contact

Mr DJ Hoffman +27 (0)124202551

Programme Information

A student is required to attend lectures diligently, but in addition the student must complete a compulsory minimum of 240 hours of temporary employment with a suitable employer in the construction industry/built environment (registered quantity surveyor, contractor, developer, property owner, etc). As proof of the practical experience the student must submit an approved log book signed by the employer.

Also refer to G Regulations G.16 to G.29 and G.54.

Admission Requirements

A person shall not be admitted as a candidate for the degree unless he or she:

- (a) is a graduate of the BSc in Quantity Surveying degree of this University; or
- (b) is the holder of any three-year bachelor's degree of this, or any other university recognised for the purpose by the head of department as equivalent to the BSc in Quantity Surveying degree of this University; or department is adequate for the purpose of admission.

Additional Requirements

Selection is based on an applicant's academic record and experience. Applicants may be required to attend an interview and/or write an entrance examination.

Examinations, pass requirements and supplementary examinations

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.No supplementary examinations are granted at postgraduate level.

Special examinations

No special examinations are granted at postgraduate level.

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

Pass 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% (excluding POU 700).

Curriculum: Final Year Minimum Credits: 158

Core

Semester one

BKR 700 Building cost estimation 700 - Credits: 24.00 (year module)
BRK 700 Quantity surveying practice 700 - Credits: 12.00 (year module)

BRK 785 Research report 785 - Credits: 30.00 (year module)

EUS 710 Feasibility studies 710 - Credits: 9.00

HVH 700 Quantities 700 - Credits: 24.00 (year module)
KBS 710 Construction management 710 - Credits: 9.00
KKR 730 Construction contract law 730 - Credits: 12.00

KPB 730 Construction project management 730 - Credits: 9.00

POU 700 Practical development feasibility 700 - Credits: 2.00 (year module)

Semester two

BTP 700 Management practice 700 - Credits: 6.00 EUS 720 Feasibility studies 720 - Credits: 9.00

KKR 740 Construction contract law 740 - Credits: 12.00

2.1.3 MSc Quantity Surveying

Master of Science Quantity Surveying (Research)

12252031

Duration of study: 1 year

Contact

Mr DJ Hoffman +27 (0)124202551

Programme Information

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.

Also refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

Subject to the stipulations of the General Regulations, a BScHons degree or equivalent qualification and practical experience which is deemed adequate by the Head of Department is required for admission.

Additional Requirements

Supplementary undergraduate modules may be prescribed during the first year of study.

Examinations and pass requirements

The minimum pass mark is 50% for both the dissertation and the examination.

Pass with Distinction

The degree is conferred with distinction when a student obtains at least 75% in the examination and the dissertation.

Curriculum: Final Year Minimum Credits: 180

Core

BRK 890 Dissertation: Quantity surveying 890 - Credits: 180.00

2.1.4 PhD Quantity Surveying

Doctor of Philosophy in in Quantity Surveying 12262017

Duration of study: 2 years

Programme information

Refer to G Regulations G.42 to G.54.

No student will be admitted to the study for a doctor's degree unless he or she holds an applicable master's degree.

A PhD student must submit a thesis which deals with a topic from the list of subject disciplines.

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.

Curriculum: Final Year Minimum Credits: 360

Core

BRK 990 Thesis: Quantity surveying 990 - Credits: 360.00

2.2 DEGREES IN CONSTRUCTION MANAGEMENT

2.2.1 BSc Construction Management

Bachelor of Science Construction Management 12132025 Duration of study: 3 years

Contact

Mr DE Booyens +27 (0)124204433

Programme Information

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.

The degree is awarded if all the prescribed modules have been passed.

Admission Requirements

See Reg. B.2.1 on page 6.

Promotion to next study year

- i. Promotion to the second semester of the first year and to the second year of
- 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
- 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 secondyear 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 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.
- 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. 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.

Pass with Distinction

The degree is conferred with distinction on a student:

- i. if no module of the second and third study year was repeated and a weighted average of at least
- ii. the degree programme was completed within the prescribed three study years, and the final study year modules were passed on first registration without any supplementary or special examinations.

Curriculum: Year 1 Minimum Credits: 141

Semester one Fundamental

AIM 101 Academic information management 101 - Credits: 6.00

ALL 122 Academic literacy for Construction Economics 122 - Credits: 6.00

UPO 112 Academic orientation 112 - Credits: 0.00

Core

BGG 121 Building organisation 121 - Credits: 3.00
BOU 111 Building drawings 111 - Credits: 6.00
BWT 110 Building science 110 - Credits: 9.00
EKN 110 Economics 110 - Credits: 10.00

GBD 112 Building services 112 - Credits: 6.00

HVH 101 Quantities 101 - Credits: 24.00 (year module) SKE 110 Introduction to structures 110 - Credits: 9.00

WTW 134 Mathematics 134 - Credits: 16.00

Semester two

Core

BOU 121 Building drawings 121 - Credits: 6.00
BWT 120 Building science 120 - Credits: 9.00
EKN 120 Economics 120 - Credits: 10.00
GBD 122 Building services 122 - Credits: 6.00
OMG 122 History of the environment 122 - Credits: 6.00
SKE 120 Structures 120 - Credits: 9.00

Curriculum: Year 2 Minimum Credits: 143

Semester one

Core

ABR 311 Labour law 311 - Credits: 20.00 BWT 210 Building science 210 - Credits: 9.00

FBS 110 Financial management 110 - Credits: 10.00

GBD 211 Building services 211 - Credits: 6.00

KSH 201 Construction quantities 201 - Credits: 24.00 (year module)

SKE 210 Reinforced concrete structures 210 - Credits: 9.00

STK 110 Statistics 110 - Credits: 13.00 TRN 213 Site surveying 213 - Credits: 12.00

Semester two

Core

BWT 220 Building science 220 - Credits: 9.00
FBS 120 Financial management 120 - Credits: 10.00
GBD 221 Building services 221 - Credits: 6.00
SKE 220 Civil engineering services 220 - Credits: 9.00

STK 161 Statistics 161 - Credits: 6.00

Curriculum: Final Year

Minimum Credits: 150

Semester one

Core

BER 310	Business law 310 - Credits: 16.00
BWT 310	Building science 310 - Credits: 9.00
FBS 210	Financial management 210 - Credits: 16.00
GBD 311	Building services 311 - Credits: 6.00

JCP 201 Community-based project 201 - Credits: 8.00 (year module)

KBS 310 Construction management 310 - Credits: 9.00

KSH 300 Construction quantities 300 - Credits: 24.00 (year module)

Semester two

Core

BHU 320	Housing 320 - Credits: 6.00
BWT 320	Building science 320 - Credits: 9.00
EOW 320	Introduction to property law 320 - Credits: 6.00
FBS 320	Financial management 320 - Credits: 20.00
KBS 320	Construction management 320 - Credits: 9.00
NNM 320	Research methodology 320 - Credits: 6.00
VKN 320	Sustainable construction 320 - Credits: 6.00

2.2.2 BScHons Construction Management

Bachelor of Science Honours Construction Management 12242018

Duration of study: 1 year

Contact

Mr DE Boovens +27 (0)124204433

Programme Information

A student is required to attend lectures diligently, but in addition the student must complete a compulsory minimum of 240 hours of temporary employment with a suitable employer in the construction industry/built environment (registered quantity surveyor, contractor, developer, property owner, etc). As proof of the practical experience the student must submit an approved log book signed by the employer.

Also refer to G Regulations G.16 to G.29 and G.54.

Admission Requirements

The admission requirements must be read in conjuction with the General Regulations. A person shall not be admitted as a candidate for the degree unless he or she:

- (a) is a graduate of the BSc in Construction Management degree of this University; or
- (b) is the holder of any three-year bachelor's degree of this, or any other university recognised for the purpose by the head of department as equivalent to the BSc in Construction Management degree of this University; **or**
- (c) has in any other manner attained a level of competence which in the opinion of the head of department is adequate for the purpose of admission

Additional Requirements

Selection is based on an applicant's academic record and experience. Applicants may be required to attend an interview and/or write an entrance examination.

Examinations and pass requirements

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.

Supplementary examinations

No supplementary examinations are granted at postgraduate level.

Special examinations

No special examinations are granted at postgraduate level.

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

Pass 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% (excluding POU 700).

Curriculum: Final Year Minimum Credits: 152

Core

Semester one

FMT 700 Financial management 700 - Cred	dits: 18.00 (year module)
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KBS 710	Constru	ction ma	anagem	nent	710	Credits:	9.00

POU 700 Practical development feasibility 700 - Credits: 2.00 (year module)

Semester two

EUS 720 Feasibility studies 720 - Credits: 9.00

KBS 720 Construction management 720 - Credits: 9.00 KEN 740 Construction entrepreneurship 740 - Credits: 9.00

KKR 740 Construction contract law 740 - Credits: 12.00

2.2.3 MSc Construction Management (Research)

Master of Science Construction Management (Research)

12252032

Duration of study: 1 year

Contact

Mr DE Boovens +27 (0)124204433

Programme Information

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.

Also refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

Subject to the stipulations of the General Regulations, a BScHons degree or equivalent qualification and practical experience which is deemed adequate by the Head of Department is required for admission.

Additional Requirements

Supplementary undergraduate modules may be prescribed during the first year of study.

Examinations and pass requirements

The minimum pass mark is 50% for both the dissertation and the examination.

Pass with Distinction

The degree is conferred with distinction when a student obtains at least 75% in the examination and the dissertation.

Curriculum: Final Year Minimum Credits: 180

Core

KBS 891 Dissertation: Construction management 891 - Credits: 180.00

2.2.4 PhD Construction Management

Doctor of Philosphy in Construction Mangement 12262018 Duration of study: 2 years

Programme information

Refer to G Regulations G.42 to G.54.

No student will be admitted to the study for a doctor's degree unless he or she holds an applicable master's degree.

A PhD student must submit a thesis which deals with a topic from the list of subject disciplines.

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.

Curriculum: Final Year Minimum Credits: 360

Core

KBS 990 Thesis: Construction management 990 - Credits: 360.00

2.3 DEGREES IN REAL ESTATE

2.3.1 BSc Real Estate

Bachelor of Science Real Estate 12132024 Duration of study: 3 years

Contact

Dr M Burger

Programme Information

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.

The degree is awarded if all the prescribed modules have been passed.

Admission requirements

See Reg. B.2.1 on page 6.

Promotion to next study year

- 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 secondyear 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 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.
- 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. 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.

Pass with Distinction

The degree is conferred with distinction on a student:

- i. if no module of the second and third study year was repeated and a weighted average of at least
- the degree programme was completed within the prescribed three study years, and the final study year modules were passed on first registration without any supplementary or special examinations.

Curriculum: Year 1 Minimum Credits: 135

Semester one Fundamental

AIM 101 Academic information management 101 - Credits: 6.00

ALL 122 Academic literacy for Construction Economics 122 - Credits: 6.00

UPO 112 Academic orientation 112 - Credits: 0.00

Core

BGG 121 Building organisation 121 - Credits: 3.00
BOU 111 Building drawings 111 - Credits: 6.00
BWT 110 Building science 110 - Credits: 9.00

EKN 110 Economics 110 - Credits: 9.00

EWS 110 Real estate 110 - Credits: 6.00

GBD 112 Building services 112 - Credits: 6.00 HVH 101 Quantities 101 - Credits: 24.00 (year module)

WTW 134 Mathematics 134 - Credits: 16.00

WTW 134 Mathematics 134 - Credits. 16.

Semester two

Core

BOU 121 Building drawings 121 - Credits: 6.00
BWT 120 Building science 120 - Credits: 9.00
EKN 120 Economics 120 - Credits: 10.00
EWS 120 Real estate 120 - Credits: 6.00

GBD 122 Building services 122 - Credits: 6.00

OMG 122 History of the environment 122 - Credits: 6.00

Curriculum: Year 2 Minimum Credits: 108

Semester one

Core

BWT 210 Building science 210 - Credits: 9.00

EDW 200 Property valuation 200 - Credits: 12.00 (year module)

EWS 210 Real estate 210 - Credits: 12.00

FBS 110 Financial management 110 - Credits: 10.00 GBD 211 Building services 211 - Credits: 6.00

STK 110 Statistics 110 - Credits: 13.00

Semester two

Core

BWT 220 Building science 220 - Credits: 9.00 EWS 220 Real estate 220 - Credits: 6.00

FBS 120 Financial management 120 - Credits: 10.00 GBD 221 Building services 221 - Credits: 6.00

SKF 220 Civil engineering services 220 - Credits: 9.00

STK 161 Statistics 161 - Credits: 6.00

Curriculum: Final Year Minimum Credits: 138

Semester one

Core

BER 310	Business law 310 - Credits: 16.00
BWT 310	Building science 310 - Credits: 9.00

EDW 300 Property valuation 300 - Credits: 12.00 (year module)

EWS 310 Real estate 310 - Credits: 9.00

FBS 210 Financial management 210 - Credits: 16.00

GBD 311 Building services 311 - Credits: 6.00

JCP 201 Community-based project 201 - Credits: 8.00 (year module)

Semester two

Core

BHU 320	Housing 320 - Credits: 6.00
BWT 320	Building science 320 - Credits: 9.00

EOW 320 Introduction to property law 320 - Credits: 6.00

FWS 320 Real estate 320 - Credits: 9.00

FBS 320 Financial management 320 - Credits: 20.00 NNM 320 Research methodology 320 - Credits: 6.00 VKN 320 Sustainable construction 320 - Credits: 6.00

2.3.2. BScHons Real Estate

Bachelor of Science Honours Real Estate 12242019

Duration of study: 1 year

Contact

Dr M Burger

Programme Information

A student is required to attend lectures diligently, but in addition the student must complete a compulsory minimum of 240 hours of temporary employment with a suitable

employer in the construction industry/built environment (registered quantity surveyor, contractor, developer, property owner, etc). As proof of the practical experience the student must submit an approved log book signed by the employer. Also refer to G Regulations G.16 to G.29 and G.54.

Admission Requirements

The admission requirements must be read together with the stipulations of the General Regulations.

A person shall not be admitted as a candidate for the degree unless he or she:

(a) is a graduate of the BSc in Real Estate degree of this University;

(b) is the holder of any three-year bachelor's degree of this or any other university recognised for the purpose by the head of department as equivalent to the BSc in Real Estate degree of this University;

or

(c) has in any other manner attained a level of competence which in the opinion of the head of department is adequate for the purpose of admission.

Additional Requirements

Selection is based on an applicant's academic record and experience. Applicants may be required to attend an interview and/or write an entrance examination.

Examinations and pass requirements

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.

Supplementary examinations

No supplementary examinations are granted at postgraduate level.

Special examinations

No special examinations are granted at postgraduate level.

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

Pass 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% (excluding POU 700).

Curriculum: Final Year Minimum Credits: 131

Semester one

Core

BKR 700 Building cost estimation 700 - Credits: 24.00 (year module)

EBM 710 Property marketing 710 - Credits: 6.00 FBS 710

Facilities management 710 - Credits: 6.00

EDW 700 Property valuation 700 - Credits: 12.00 (year module) EMW 785 Research report 785 - Credits: 30.00 (year module)

EOW 711 Property development 711 - Credits: 9.00 KBS 710 Construction management 710 - Credits: 9.00

POU 700 Practical development feasibility 700 - Credits: 2.00 (year module)

Semester two

BTP 700	Management practice 700 - Credits: 6.00
EBM 721	Market and location studies of shopping centres 721 - Credits: 6.00
EUS 720	Feasibility studies 720 - Credits: 9.00
HKR 720	Law of lease contracts 720 - Credits: 6.00
PMN 720	Property investment 720 - Credits: 6.00

2.3.3 BScHons Real Estate Retail Property

Bachelor of Science Honours Real Estate Retail Property 12242020

Duration of study: 1 year

Curriculum: Final Year Minimum Credits: 131

Semester one

Core RKR 700 Ruilding cost estimation 700 - Credits: 24 00 (year module)

DIXIX 100	building cost estimation 700 - Credits. 24.00 (year module)	
EBM 710	Property marketing 710 - Credits: 6.00	
EBS 710	Facilities management 710 - Credits: 6.00	
EDW 700	Property valuation 700 - Credits: 12.00 (year module)	
EMW 785	Research report 785 - Credits: 30.00 (year module)	
EOW 711	Property development 711 - Credits: 9.00	
KBS 710	Construction management 710 - Credits: 9.00	
POU 700	Practical development feasibility 700 - Credits: 2.00 (year module)	
Compostor two		

Semester two

BTP 700	Management pract	ice 700 - Credits: 6.00
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EBM 721 Market and location studies of shopping centres 721 - Credits: 6.00

EUS 721 Feasibility studies of shopping centres 721 - Credits: 9.00

HKR 720 Law of lease contracts 720 - Credits: 6.00 PMN 720 Property investment 720 - Credits: 6.00

2.3.4 MSc Real Estate (Research)

Master of Science Real Estate (Research) 12252033

Duration of study: 1 year

Contact

Prof CE Cloete +27 (0)124204545

Programme Information

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.

Also refer to G Regulations G.30 to G.40 and G.50 to G.54.

Admission Requirements

Subject to the stipulations of the General Regulations, a BScHons degree or equivalent qualification and practical experience which is deemed adequate by the Head of Department is required for admission.

Additional Requirements

Supplementary undergraduate modules may be prescribed during the first year of study.

Examinations and pass requirements

The minimum pass mark is 50% for both the dissertation and the examination.

Pass with Distinction

The degree is conferred with distinction when a student obtains at least 75% in the examination and the dissertation.

Curriculum: Final Year Minimum Credits: 180

Core

EMW 890 Dissertation: Real estate 890 - Credits: 180.00

2.3.5 MSc Real Estate (Coursework)

Master of Science Real Estate (Coursework) 12252034 Duration of study: 1 year

Contact

Prof CE Cloete +27 (0)124204545

Programme Information

The degree can be obtained by successfully completing a curriculum with coursework and a minidissertation.

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.

The curriculum is compiled in consultation with the Head of Department. 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 minidissertation (60 credits), i.e. a total of 180 credits.

Admission Requirements

A candidate for the degree Master of Science Real Estate by means of coursework and a minidissertation must:

 be a graduate with a BScHons Real Estate degree or an equivalent university degree;

or

 have an appropriate recognised tertiary qualification at honours degree level and show sufficient past

experience, or additional education in the discipline of real estate to the satisfaction of the Head of Department (refer also to G Regulation G.54).

Other programme-specific information

The Head of Department may, at own discretion, allow for any other module that is deemed appropriate for an individual student's circumstances, to be taken elsewhere as elective in lieu of the abovementioned elective modules.

Examinations and 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.

Curriculum: Year 1 Minimum Credits: 80

Core

EBS 801 Property management 801 - Credits: 20.00
EDW 801 Property valuation 801 - Credits: 20.00
EOW 801 Property development 801 - Credits: 20.00
EOW 822 Property development 822 - Credits: 10.00
NNM 820 Research methodology 820 - Credits: 10.00

Curriculum: Final Year Minimum Credits: 100

Core

EDW 802 Property valuation 802 - Credits: 20.00

EMW 892 Mini-dissertation: Real estate 892 - Credits: 60.00 FAM 822 Facilities management 822 - Credits: 10.00 PMN 820 Property Investment 820 - Credits: 10.00

2.3.6 MSc Real Estate Retail Property (Coursework)

Master of Science Real Estate Retail Property (Coursework)

12252037

Duration of study: 1 year

Programme Information

The degree can be obtained by successfully completing a curriculum with coursework and a minidissertation.

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.

The curriculum is compiled in consultation with the Head of Department. 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 minidissertation (60 credits), i.e. a total of 180 credits.

Other programme-specific information

The Head of Department may, at own discretion, allow for any other module that is deemed appropriate for an individual student's circumstances, to be taken elsewhere as elective in lieu of the abovementioned elective modules.

Examinations and pass requirements

A minimum of 40% is required in the examination, with a minimum final mark of 50% to pass. Examination requirements are set out in the departmental study manuals.

The topic of the mini-dissertation must be approved by the Head of Department and a minimum of 50% is required to pass.

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.

Curriculum: Year 1 Minimum Credits: 80

Core

EBS 802 Shopping centre management 802 - Credits: 20.00

EDW 801 Property valuation 801 - Credits: 20.00 EOW 801 Property development 801 - Credits: 20.00

EOW 823 Shopping centre development 823 - Credits: 10.00

NNM 820 Research methodology 820 - Credits: 10.00

Curriculum: Final Year Minimum Credits: 100

Core

EDW 802 Property valuation 802 - Credits: 20.00

EMW 892 Mini-dissertation: Real estate 892 - Credits: 60.00 FAM 822 Facilities management 822 - Credits: 10.00

PMN 820 Property Investment 820 - Credits: 10.00

2.3.7 PhD Real Estate

Doctor of Philosophy in Real Estate 12262019

Duration of study: 2 years

Programme information

Refer to G Regulations G.42 to G.54.

No student will be admitted to the study for a doctor's degree unless he or she holds an applicable master's degree.

A PhD student must submit a thesis which deals with a topic from the list of subject disciplines.

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.

Curriculum: Final Year Minimum Credits: 360

Core

EMW 990 Thesis: Real estate 990 - Credits: 360.00

3. DEGREES IN THE DEPARTMENT OF TOWN AND REGIONAL PLANNING

3.1 DEGREES IN TOWN AND REGIONAL PLANNING

3.1.1 BTRP Town and Regional Planning

Bachelor of Town and Regional Planning 12132026 Duration of study: 4 years

Programme Information

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, nongovernmental organisations, community-based organisations, major financial institutions and property development groups.

Admission requirements

See Reg. B.2.1 on page 6.

Promotion to next study year

- Promotion to the second semester of the first year and to the second year of study
- 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
- 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 thirdyear 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.

Pass with Distinction

The degree is conferred with distinction on a student who, at first registration passes all modules of the final year with a weighted average of 75%. The degree must have been completed within the minimum prescribed time. Exceptional cases will be considered by the Dean.

Curriculum: Year 1 Minimum Credits: 162

Semester one

Core

Fundamental

AIM 101 Academic information management 101 - Credits: 6.00

ALL 123 Academic literacy for Town and Regional Planning 123 - Credits: 6.00

UPO 112 Academic orientation 112 - Credits: 0.00

Core

EKN 110 Economics 110 - Credits: 10.00 SOC 110 Sociology 110 - Credits: 12.00 STK 110 Statistics 110 - Credits: 13.00

TPA 110 Site analysis and assessment 110 - Credits: 16.00

TPH 110 Planning and settlement histories before the Industrial Revolution 110 -

	Credits: 12.00
TRP 110	Introduction to planning 110 - Credits: 12.00
Semester t	two
Core	
EKN 120	Economics 120 - Credits: 10.00
SOC 120	Sociology 120 - Credits: 12.00
STK 120	Statistics 120 - Credits: 13.00
TPA 120	Settlement analysis and assessment 120 - Credits: 16.00
TPH 120	Planning and settlement histories since the Industrial Revolution 120 -
TDC 400	Credits: 12.00
TPS 120	Principles of settlement design 120 - Credits: 12.00
Curriculun	n: Year 2
Minimum (Credits: 132
Semester of	one
Core	
JCP 201	Community-based project 201 - Credits: 8.00 (year module) (year module)
TPA 210	Plan and policy analysis and assessment 210 - Credits: 12.00
TPD 210	Introduction to development planning 210 - Credits: 12.00
TPS 210	Settlement design concepts 210 - Credits: 16.00
TPU 210	Land use management theory 210 - Credits: 12.00
	nodule of choice between either Economics OR Sociology:
EKN 214	Economics 214 - Credits: 16.00
SOC 210	Sociology 210 - Credits: 20.00
Semetster Core	two
TPD 220	Municipal development planning 220 - Credits: 12.00
TPS 220	Settlement establishment and housing delivery 220 - Credits: 16.00
TPU 261	Urban land development economics 261 - Credits: 6.00
TPU 262	Land use management practice 262 - Credits: 6.00
	nodule of choice between either Economics OR Sociology:
EKN 234	Economics 234 - Credits: 16.00
SOC 220	Sociology 220 - Credits: 20.00
	•
Curriculun	
	Credits: 120
Semester of Core	one
TPD 310	Regional development planning 310 - Credits: 12.00
TPS 310	Spatial concepts 310 - Credits: 16.00
TPW 310	Institutional and legal structures for planning 310 - Credits: 12.00
	nodule of choice between either Economics OR Sociology:
Elective	
EKN 310	Economics 310 - Credits: 20.00
SOC 310	Sociology 310 - Credits: 30.00
Semester t	two
Core	
TMS 320	Transport planning and municipal services provision 320 - Credits: 16.00
TPD 320	Rural development planning 320 - Credits: 12.00
TRP 320	Planning prospects 320 - Credits: 12.00
	nodule of choice between either Economics OR Sociology:
EKN 320	Economics 320 - Credits: 20.00
SOC 320	Sociology 320 - Credits: 30.00

Curriculum: Final Year Minimum Credits: 98

Semester one

Core

POU 700 Practical development feasibility 700 - Credits: 2.00 (year module)

TPE 410 Research methodology 410 - Credits: 12.00

TPI 452 Planning interventions: Peri-urban and rural scale 452 - Credits: 12.00

TPI 454 Planning interventions: Supranational, national and provincial scale 454 -

Credits: 12.00

TRP 412 Professional practice 412 - Credits: 6.00

Semester two

Core

TPE 420 Research report 420 - Credits: 30.00

TPI 451 Planning interventions: Precinct scale 451 - Credits: 12.00 Planning interventions: Metropolitan scale 453 - Credits: 12.00

3.1.2. MTRP Town and Regional Planning (Research)

Master of Town and Regional Planning (Research)

12252035

Duration of study: 2 years

Programme Information

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.

The successful completion of a relevant module in research methodology is a prerequisite for approval of the study proposal.

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

Admission Requirements

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.

Additional Requirements

Supplementary undergraduate modules for the MT&RP degree may be prescribed for students who have not obtained a BT&RP degree.

Examinations and pass requirements

The minimum pass mark is 50% in both the dissertation and examination.

Pass with Distinction

The degree is conferred with distinction on a student who obtains at least 75% in both the examination and dissertation.

Curriculum: Final Year Minimum Credits: 180

Core

SSB 890 Dissertation: Town and regional planning 890 - Credits: 180.00

3.1.3 MTRP Town and Regional Planning (Coursework)

Master of Town and Regional Planning (Coursework)

12252036

Duration of study: 2 years

Programme Information

This master's degree is obtained by virtue of coursework and a mini-dissertation. The topic of the minidissertation must be approved by the Head of Department.

Admission Requirements

Subject to the stipulations of General Regulations G.30 G.37 and G.38 a relevant fouryear 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.

Additional Requirements

Supplementary undergraduate modules for the MT&RP degree may be prescribed for students who have not obtained a BT&RP degree.

Examinations and pass requirements

A minimum semester/year mark of 40% is required in order to be admitted to the final examination in a specific module. In addition, all other examination admission requirements, applicable to the relevant module, must be met. A minimum pass mark of 40% is required in the examination, with a minimum final mark of 50% to pass.

Pass with Distinction

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.

Curriculum: Year 1 Minimum Credits: 120

Semester one

Core

TPI 811 Metropolitan and urban area-based interventions 811 - Credits: 20.00 Sustainable settlement planning and design 810 - Credits: 20.00 An overview of planning theory and practice 810 - Credits: 20.00

Semester two

Core

TPD 820 Integrated development planning 820 - Credits: 20.00

TPI 821 Regional interventions 821 - Credits: 20.00

TPS 820 Introduction to urban design 820 - Credits: 20.00

Curriculum: Final Year Minimum Credits: 120

Core

Mini-dissertation

TPE 820 Mini-dissertation 820 - Credits: 60.00

Modules

TPE 810 Research methodology 810 - Credits: 20.00

TPU 810 Land use management and land development 810 - Credits: 20.00

TPW 810 Institutional and legal structures for planning 810 - Credits: 20.00

3.1.4 PhD Town and Regional Planning

Doctor of Philosophy in Town and Regional Planning

12262023

Duur van Studie: 2 jaar

Programme information

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.

Refer to G Regulations G.42 to G.54.

Additional requirements

A student must have successfully completed a relevant module in research methodology in order for his/her study proposal to be approved.

Examinations and pass requirements

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.

Curriculum: Final Year Minimum Credits: 360

Core

SSB 990 Thesis: Town and regional planning 990 - Credits: 360

ALPHABETICAL LIST OF MODULES IN THE SCHOOL FOR BUILT ENVIRONMENT

= Concurrent registration

() = Examination admission

dpw = discussions per week

GS = combined (final) mark (semester/year mark plus examination mark) of at

least 40% - 49%

hpw = hours per week

LP = Lecturer's permission

lpw = lectures per week

ppw = practicals per week

spw = seminars per week

TDH = Permission by head of department

tpw = tutorials per week

opw = other mode of presentation per week

AAL 110 Earth studies 110

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 10

Module content:

Introduction to the basic concepts of ecology, natural resources and stress on the environment; systems thinking; earth as system; changing paradigms and values; ecological design principles; geo-referencing; geo-mapping; basic site survey.

AAL 210 Earth studies 210

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 8

Module content:
Meso-environment:

Climate: atmospheric constituents and processes, weather systems, heat radiation

and transfer, solar charts, sun movement and heat gain control.

Air: airflow patterns around structures, natural ventilation.

Water vapour: diffusivity, transfer and condensation.

Heat: thermal comfort and comfort indices, thermal performance of materials and

structures, time lag, decrement and periodic heat transfer.

AAL 223 Earth studies 223

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Quarter 3

Language of tuition: English Credits: 4

Module content:

The impact of social, economic and political systems on, and the multidisciplinary approach to design decision making for inclusive environments and barrier-free environments. The application of this understanding in developing communities.

AAL 224 Earth studies 224

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Quarter 4

Language of tuition: English Credits: 4

Module content:

Environmental filters and forecasting techniques:

Sound: the physical nature of sound, physiology of hearing, sound and noise sources, transfer, absorption and isolation, noise control; measurement, levels, frequency analysis, A-loading, room acoustics, reverberation periods.

Light: properties of natural light, design criteria, daylight factors, diffusion, quality, energy requirements and saving.

AAL 320 Earth studies 320

Academic organisation: Architecture

Prerequisite: AAL 210 Contact time: 2 low

Period of presentation: Semester 2

Language of tuition: English Credits: 6

Module content:

Ecosystemic thinking for the designer in terms of culture, science and environment. The designer as critic; analysis of precedents. Application of principles of sustainable development and ecological design including energy demand and efficiency and

energy dissipation.

ARC 110 Elective module 110 Academic organisation: Architecture Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 6

ARG 890 Dissertation: Architecture 890 Academic organisation: Architecture

Period of presentation: Year

Credits: 180 Language of tuition: Both Afr and Eng

ARG 895 Mini-dissertation 895 Academic organisation: Architecture

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 110

ARG 990 Thesis: Architecture 990 Academic organisation: Architecture Period of presentation: Year

Credits: 360 Language of tuition: Both Afr and Eng

BGG 121 Building organisation 121

Academic organisation: Construction Economics

Contact time: 1 lpw

Period of presentation: Semester 1 Language of tuition: Both Afr and Eng Credits: 3

Module content:

The structure of the building industry and the role of building disciplines and related parties.

BHU 320 Housing 320

Credits: 6

Credits: 6

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2 Language of tuition: Double Medium

Module content:

Concepts, principles, history, current trends in settlement, shelter and integrated living environments; role of housing in society; statutory policy and planning frameworks and paradigms; housing delivery options; housing development management; financing and property rights options; housing types and densities; housing product, norms and standards; management and maintenance of social housing stock; housing needs assessment and post-occupancy evaluation; consumer education and protection.

BKR 700 Building cost estimation 700

Academic organisation: Construction Economics

Contact time: 4 lpw

Period of presentation: Year
Language of tuition: English Credits: 24

Module content:

Estimation of building costs – principles and process; elements of a price; rough quantities and inclusive quantities (elemental and builders' quantities) for estimating; estimating methods; pricing of various trades and preliminaries; analysis of building cost; building cost escalation; design cost management.

BOU 111 Building drawings 111

Academic organisation: Construction Economics

Contact time: 1 lpw 1 ppw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Students are introduced to design aspects in the built environment by doing basic technical drawings of simple building structures with appropriate detail sketches. Assignments during the semester expose the students to building plan interpretation through the following topics: foundations; super-structure; roof structure; window and door types; plan and sectional drawings and local authority submission criteria.

BOU 121 Building drawings 121

Academic organisation: Construction Economics

Contact time: 1 lpw 1 ppw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng

Module content:

Broadens the vocabulary of the technical language from BOU 111. Students are introduced to other aspects of the building industry that include the following topics: topography; symbols; ergonomic design principles; orientation of buildings; perspective drawings; waterproofing and damp course applications.

BRK 300 Quantity surveying practice 300

Academic organisation: Construction Economics

Prerequisite: HVH 200 GS

Contact time: 3 lpw

Period of presentation: Year

Language of tuition: Double Medium Credits: 18

Module content:

Management theory; basic principles of production management, lists of materials; pricing; payment certificates; final accounts; contract price adjustments; application of computer-based measuring programmes.

BRK 700 Quantity surveying practice 700 Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Year

Language of tuition: Double Medium Credits: 12

Module content:

Construction Procurement Guidelines; standards for uniformity; contract administration; project administration; conditions of appointment and fee accounts; consortiums; tendering for professional services; professional indemnity; Public Private Partnerships; Quantity Surveying Professions Act; Council for the Built Environment Act; CIDB Act. Construction Industry Development Board Act (CIDB Act), Public Finance Management Act (PFMA), Municipal Finance Management Act (MFMA) and Preferential Procurement Policy Framework Act (PPPFA).

BRK 785 Research report 785

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 30

Module content:

An essay on a subject approved by the head of department should be handed in during the final year of study.

BRK 890 Dissertation: Quantity Surveying 890 Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 180

BRK 895 Mini-dissertation: Quantity surveying 895 Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 180

BRK 990 Thesis: Quantity surveying 990
Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 360

BTP 700 Management practice 700

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 6

BWT 110 Building science 110

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 9

Module content:

Principles, methods and materials used in best practice in the construction of simple

Credits: 9

single-storey buildings up to wall plate height.

BWT 120 Building science 120

Academic organisation: Construction Economics

Prerequisite: BWT 110 GS

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng Credits: 9

Module content:

Principles, methods and materials used in best practice in the construction of simple single-storey buildings from wall plate height to completion including finishes and external work. Introduction to alternative practices and materials for sustainability.

BWT 210 Building science 210

Academic organisation: Construction Economics **Prerequisite:** BWT 110 GS and BWT 120 GS

Contact time: 3 lpw

Period of presentation: Semester 1
Language of tuition: Double Medium

Module content:

Erection and construction of multi-storey buildings, including site management and temporary site work, building equipment and earthwork machinery, specialised foundations, bulk excavations and advanced concrete construction including retaining walls. Timber and steel structures as construction methods.

BWT 220 Building science 220

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Double Medium Credits: 9

Module content:

Material study of metals and advanced materials. Study and development of sensitivity for and the philosophy of industrial safety, accident prevention and total loss control safety risk management in the construction industry.

BWT 310 Building science 310

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 9

Module content:

Erection and construction of specialised building components and finishes. Acoustics. Material study of plastics, glues, rubber, mastics, bonding agents, fibre cement, bituminous products, sealers, epoxies and waterproofing.

BWT 320 Building science 320

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Double Medium Credits: 9

Module content:

Thermal properties of insulation systems and construction materials. Critical review of current development and construction practice; alternative construction technologies;

innovation in construction; technical evaluation of innovative construction materials and methods; life cycle costing and life cycle analysis; the National Building Regulations.

CPD 710 Continuing practice development 710

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 6

CPD 720 Continuing practice development 720

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 6

CPD 730 Continuing practice development 730

Academic organisation: Architecture

Contact time: 20 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 6

CPD 740 Continuing practice development 740

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 6

CPD 810 Continuing practice development 810

Academic organisation: Architecture

Contact time: 20 lpw

Period of presentation: Quarter 1

Language of tuition: English Credits: 15

DIT 801 Design investigation 801
Academic organisation: Architecture

Contact time: 1 spw 10 lpw Period of presentation: Year

Language of tuition: English Credits: 75

DIT 802 Design investigation 802
Academic organisation: Architecture

Contact time: 1 spw 10 lpw Period of presentation: Year

Language of tuition: English Credits: 75

DIT 803 Design investigation 803
Academic organisation: Architecture

Academic organisation: Architectu Contact time: 1 spw 10 lpw Period of presentation: Year

Language of tuition: English Credits: 75

DPD 801 Mini-dissertation: Design project and discourse 801

Academic organisation: Architecture

Contact time: 6 spw

Period of presentation: Year

Language of tuition: English Credits: 90

DPD 802 Mini-dissertation: Design project and discourse 802

Academic organisation: Architecture

Contact time: 6 spw

Period of presentation: Year

Language of tuition: English Credits: 90

DPD 803 Mini-dissertation: Design project and discourse 803

Academic organisation: Architecture

Contact time: 6 spw

Period of presentation: Year

Language of tuition: English Credits: 90

EBM 710 Property marketing 710

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 6

Module content:

Marketing of professional services in the property industry. Marketing of large scale property developments. Marketing of specialized property services, i.e. shopping centre activities, hotels and hospitality properties, etc. Marketing of equity capital structures.

EBM 720 Market- and location studies 720 Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 6

Module content:

Market- and marketability analysis, the influence of location on the marketability and

cost of ownership of property, different location models.

EBM 721 Market- and location studies of shopping centres 721

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Double Medium Credits: 6

Module content:

Market- and marketability analysis of shopping centres, the influence of location on the marketability and cost of ownership of retail property, different location models of retail property.

EBS 710 Facilities management 710

Academic organisation: Construction Economics

Contact time: 2 low

Period of presentation: Semester 1

Language of tuition: English Credits: 6

Module content:

Management of different types of facilities and portfolios of assets. Principles of

outsourcing and the outsourcing decision. Contractual relationships in facilities- and asset management.

EBS 801 Property management 801

Academic organisation: Construction Economics

Prerequisite: EOW 801

Contact time: 40 contact hours per semester

Period of presentation: Year

Language of tuition: English Credits: 20

EBS 802 Shopping centre management 802
Academic organisation: Construction Economics

Contact time: 10 lpw (2 weeks)
Period of presentation: Semester 2

Language of tuition: English Credits: 10

Module content:

Principles of property management, leasing, management of shopping centres, risk management, financial management, internal management, marketing of management services.

EDW 200 Property valuation 200

Academic organisation: Construction Economics Prerequisite: EKN 110/120, EWS 110/120

Contact time: 2 lpw

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 12

Module content:

Property economics and -finance, welfare and economic efficiency: economic efficiency through the price system. Real property: characteristics and functions of the real property market; pricing of land and resources. Development: the development process; timing and rate of development; finance for development; redevelopment; public sector development; economics of planning controls; the construction industry. Urban land use: land use and land values; pattern of urban land use; growth of urban areas; quality of urban environment; housing; regional policy. The government and land resources: impact of government economic policy on land resources; theory of urban public finance; taxation and land resources; recent developments.

EDW 300 Property valuation 300

Academic organisation: Construction Economics

Prerequisite: EDW 200 Contact time: 2 lpw Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 12

Module content:

The concept of value, the valuer, standard of valuations, the Surveyor-general, local authorities, land use planning, town planning regulations, calculation of areas, records of the valuer. Factors affecting the value of different types of properties, appreciation and depreciation, different approaches to valuation, the value of improvements, the valuation report.

EDW 700 Property valuation 700

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 12

Module content:

Valuation of income-producing properties, commercial properties, lease agreements, land with development potential, mass valuation techniques and jurisprudence regarding property valuation.

EDW 801 Property valuation 801

Academic organisation: Construction Economics **Contact time:** 40 contact hours per semester

Period of presentation: Year

Language of tuition: English Credits: 20

EDW 802 Property valuation 802

Academic organisation: Construction Economics Contact time: 40 contact hours per semester

+Period of presentation: Year

Language of tuition: English Credits: 20

EMW 785 Research report 785

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 30

Module content:

A research report on a subject approved by the head of department has to be completed during the final year of study.

EMW 890 Dissertation: Real estate 890

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 180

EMW 892 Mini-dissertation: Real estate 892
Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 60

EMW 990 Thesis: Real estate 990

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 360

EOW 320 Introduction to property law 320
Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Moveable and immovable property. Rights over immovable property; private legal circumscription of ownership; relevant legislation pertaining to property; real securities; the registration of rights; zoning regulations.

EOW 711 Property development 711

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 9

Module content:

Principles of various types of residential, commercial and industrial property

developments.

EOW 801 Property development 801

Academic organisation: Construction Economics **Contact time:** 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

EOW 822 Property development 822

Academic organisation: Construction Economics

Contact time: 10 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 10

EOW 823 Shopping centre development 812

Academic organisation: Construction Economics

Prerequisites: (EOW 801)
Contact time: 10 lpw (2 weeks)
Period of presentation: Semester 2

Language of tuition: English Credits: 10

Module content:

Principles and practical applications of viability studies for shopping centre development

EUS 710 Feasibility studies 710

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 9

Module content:

Overview of factors affecting the feasibility of proposed property developments, including a brief introduction to town planning, valuation, financing, marketing and

investment principles.

EUS 720 Feasibility studies 720

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 9

Module content:

Detailed financial viability studies of different types of property developments; value

management and life-cycle costing.

EUS 721 Feasibility studies of shopping centres 721 Academic organisation: Construction Economics

Contact time: 3 low

Period of presentation: Semester 2
Language of tuition: Double Medium Credits: 9

Module content:

Detailed financial viability studies of shopping centre developments; value management

and life-cycle costing.

EWS 110 Real estate 110

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Introduction to real estate. Different stakeholders in the property industry and the relationship to other industries. Fields of specialization in the property industry and the role and interaction of each.

EWS 120 Real estate 120

Academic organisation: Construction Economics

Prerequisite: EWS 110 Contact time: 2 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng Credits: 6

Module content:

Introduction to property development. A study of the principles of property development including the relevant statutes and ordinances: Urban development, control of land in South Africa. Town planning.

EWS 210 Real estate 210

Academic organisation: Construction Economics

Prerequisite: EWS 110/120

Contact time: 4 lpw

Period of presentation: Semester 1
Language of tuition: Both Afr and Eng

Module content:

Property Management. The role of the property manager, functions of property management, the management contract, the owner/manager relationship, principles of property maintenance, principles of energy management, principles of risk management, fire prevention and control, emergency management, environmental impact and pollution aspects, and management budgets.

Credits: 12

EWS 220 Real estate 220

Academic organisation: Construction Economics

Prerequisite: EWS 110/120

Contact time: 2 lpw

Period of presentation: Semester 2 Language of tuition: Both Afr and Eng

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Property marketing. The role of property marketing in the real estate industry. Marketing principles and objectives. Methods of marketing of different types of

property to obtain optimum results.

EWS 310 Real estate 310

Academic organisation: Construction Economics

Prerequisite: EWS 210

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 9

Module content:

Property investment. The nature and scope of real estate investment, objectives of

property investors, participants in the property investment process, the investment decision process, investment criteria, investment time horizons, decision-making approaches, different taxes applicable to property investment and -development.

EWS 320 Real estate 320

Academic organisation: Construction Economics

Prerequisite: EWS 120, EDW 200

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng Credits: 9

Module content:

Overview of property development: the establishment of townships, types of dwelling units and housing types, principles of medium and high density residential developments, sectional title and group housing, development of retirement centres, introduction to commercial property development.

FAM 822 Facilities management 822

Academic organisation: Construction Economics

Contact time: 10 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 10

FMT 700 Financial management 700

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Year

Language of tuition: Double Medium Credits: 18

Module content:

Budget estimates, cash-flow schedules, financial statements and construction financial management calculations and accounting.

GBD 112 Building services 112

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

GBD 122 Building services 122

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Sanitary services; hot and cold-water supply to simple and multi-storey buildings; local by-laws; water reticulation to town development; different hot-water systems; water purification systems; water and energy saving.

GBD 211 Building services 211

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 1
Language of tuition: Double Medium Credits: 6

Module content:

Introduction to the principles of indoor comfort. Heating, ventilation and air-conditioning systems. Installation and operation of lifts and other mechanical services. Fire detection and protection.

GBD 221 Building services 221

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Double Medium Credits: 6

Module content:

Theory of electricity; regulations of electricity-supply authorities; electrical installations;

distribution of electricity.

GBD 311 Building services 311

Academic organisation: Construction Economics

Prerequisite: GBD 221 GS

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 6

Module content:

Principles of illumination; illumination installations; lightning security; security systems;

communication systems. Multimedia installations.

HKR 720 Law of lease contracts 720

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 6

Module content:

Principles of the contractual relationship between tenant and landlord for different types of properties, general clauses that should be included in leases and the legal

consequences for parties involved.

HVH 101 Quantities 101

Academic organisation: Construction Economics

Contact time: 1 ppw 3 lpw Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 24

Module content:

Introduction to quantity surveying, mensuration; interpretation of drawings, methodology of measuring, working up processes, general instructions, measuring of simple building elements.

HVH 200 Quantities 200

Academic organisation: Construction Economics Prerequisite: BWT 110 GS, BWT 120 GS and HVH 101

Contact time: 1 ppw 3 lpw Period of presentation: Year

Language of tuition: Double Medium Credits: 24

Module content:

Measuring of simple buildings and simple building elements, and external works.

Abstracting and billing.

HVH 300 Quantities 300

Academic organisation: Construction Economics

Prerequisite: BWT 210 GS, BWT 220 GS, GBD 112 GS, GBD 122 GS and HVH 200

Contact time: 1 ppw 3 lpw Period of presentation: Year

Language of tuition: Double Medium Credits: 24

Module content:

Measuring of concrete structures, precast concrete, structural steelwork, waterproofing, advanced brickwork, rubble walling, stone masonry, plumbing and drainage and electrical work. Theory of monetary allowances in bills of quantities. Abstracting and billing.

HVH 700 Quantities 700

Academic organisation: Construction Economics

Contact time: 1 ppw 3 lpw Period of presentation: Year

Credits: 24 Language of tuition: English

Module content:

Measuring of demolitions, alterations, advanced earthworks and mechanical services. Preliminaries, types of bills of quantities and compilation of bills of quantities including the application of the procurement prescripts of the Construction Industry Development Board in the Public Sector. Geotechnical and civil engineering works.

INT 890 Dissertation: Interior design 890 Academic organisation: Architecture

Period of presentation: Year

Language of tuition: English Credits: 180

INT 990 Thesis: Interior architecture 990 Academic organisation: Architecture

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 360

JCP 201 Community-based project 201 Academic organisation: Informatics Contact time: 1 other per week Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 8

Module content:

This project-orientated module is a form of applied learning which is directed at specific community needs and is integrated into all undergraduate academic programmes offered by the Faculty of Engineering, Built Environment and Information Technology. The main objectives with the module are as follows:

- (1) The execution of a community related project aimed at achieving a beneficial impact on a chosen section of society, preferably but not exclusively, by engagement with a section of society which is different from the student's own social background.
- (2) The development of an awareness of personal, social and cultural values, an attitude to be of service, and an understanding of social issues, for the purpose of being a responsible professional.
- (3) The development of important multidisciplinary and life skills, such as communication, interpersonal and leadership skills.

Assessment in the module will include all or most of the following components: evaluation and approval of project proposal, assessment of oral and/or written progress reports, peer assessment in the event of team projects, written report back by those at which the project was aimed at, and final assessment on grounds of the submission of a portfolio and a written report.

KBS 310 Construction management 310

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 9

Module content:

General functions and techniques of management.

KBS 320 Construction management 320

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: Double Medium Credits: 9

Module content:

The fundamentals and basic applications of project management.

KBS 710 Construction management 710

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 9

Module content:

Operational management techniques, productivity, work study and effect on price

determination. Construction programming techniques.

KBS 720 Construction management 720

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 9

Module content:

Human resource management. An approved certificate in first aid has to be submitted

before this module will be awarded.

KBS 785 Research report 785

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 30

Module content:

An essay on a subject approved by the head of department has to be completed

during the final year of study.

KBS 803 Construction management 803

Academic organisation: Construction Economics

Contact time: 10 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 16

KBS 804 Construction management 804

Academic organisation: Construction Economics Contact time: 20 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 16

KBS 805 Construction management 805

Academic organisation: Construction Economics Contact time: 20 contact hours per semester

Period of presentation: Semester 2

Language of tuition: English Credits: 16

KBS 891 Dissertation: Construction management 891

Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 180

KBS 990 Thesis: Construction management 990 Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: English Credits: 360

KEN 740 Construction entrepreneurship 740 Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 9

Module content:

Entrepreneurship, strategic management and marketing. Business ethics.

KKR 730 Construction contract law 730

Academic organisation: Construction Economics

Contact time: 4 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Construction law and law of delict – an overview; history of building contracts in South Africa; JBCC principal building and nominated/selected subcontract agreements: interpretation, insurance and security, execution, completion, payment, suspension and termination, dispute resolution; JBCC minor works agreement; case studies.

KKR 740 Construction contract law 740

Academic organisation: Construction Economics

Prerequisite: KKR 730 GS

Contact time: 4 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

Application and terms of CIDB endorsed standard construction contracts other than JBCC (GCC, NEC and FIDIC); case studies. Alternative dispute resolution: mediation, adjudication and arbitration; litigation – an overview; law of delict; negligence and damage to property.

KON 111 Construction 111

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 8

Module content:

The context of architectural technology and the relationships between technology, theory, structure and materials. Drawing conventions. The typical city site. The construction and materials of a single storey dwelling with masonry walls and a pitched roof, from preparation for building work to substructure, retaining walls and floors.

KON 121 Construction 121

Academic organisation: Architecture

Prerequisite: KON 111 GS Contact time: 1 ppw 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

Continuation of the construction and materials of a single storey dwelling.

Superstructure: walls, openings, roofs, finishes and services.

KON 210 Construction 210

Academic organisation: Architecture Prerequisite: KON 111 and KON 121 Contact time: 3 lpw

Period of presentation: Semester 1 Language of tuition: Both Afr and Eng Credits: 8

Module content:

Double-storeved buildings: reinforced concrete, steel and timber-framed structures. Offshutter concrete. Load-bearing masonry. Low-pitch roofs and waterproofing, other pitched-roof finishes. Lightweight partitioning. Glass. Joinery. Small precast elements.

KON 220 Construction 220

Academic organisation: Architecture

Prerequisite: KON 210 GS

Contact time: 3 lpw

Period of presentation: Semester 2

Credits: 8 Language of tuition: English

Module content:

Soil mechanics: foundations, basement construction and waterproofing. Site structures: geotextiles and geomembranes, stairs, walls, retaining walls, fences, ramps, gabions, prefabricated retaining blocks. Built planters, lapas, braais, pavilions, decks.

KON 310 Construction 310

Academic organisation: Architecture Prerequisite: KON 210 and KON 220

Contact time: 3 low

Period of presentation: Semester 1

Language of tuition: English Credits: 8

Module content:

Roads: design and construction, materials and finishes, kerbing. Water features: design and construction. Street furniture. Construction equipment. Site and building services; water lines, sanitary plumbing and pipe systems above ground and indoors. underground sewer systems, electricity and gas. Electrical lighting: light, lamp types, luminaires; lighting requirements. Design application.

KON 320 Construction 320

Academic organisation: Architecture

Prerequisite: KON 310 GS

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

Integration of the foregoing coursework. Introduction to construction norms and standards, technical drawing practice and specifications. Cost estimates, feasibility and payability. Advanced materials: ceramics, polymers, adhesives, paint, metals, glass. Human transportation systems: types, applications. Design of a small commercial building/landscape/interior space (in DESIGN) and the preparation of its construction drawings.

KPB 730 Construction project management 730 Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 9

Module content:

Introduction to project management in the building and property industry. Key processes, knowledge areas and techniques are covered.

KSH 201 Construction quantities 201

Academic organisation: Construction Economics Prerequisite: BWT 110 GS, BWT 120 GS and HVH 101

Contact time: 1 ppw 3 lpw Period of presentation: Year

Language of tuition: Double Medium Credits: 24

Module content:

Measuring of simple buildings and simple building elements and external works.

Abstracting and billing.

KSH 300 Construction quantities 300

Academic organisation: Construction Economics

Prerequisite: BWT 210 GS, BWT 220 GS, GBD 112 GS, GBD 122 GS and KSH 201

Contact time: 1 ppw 3 lpw Period of presentation: Year

Language of tuition: Double Medium Credits: 24

Module content:

Measuring of simple concrete structures, structural steelwork, plumbing and drainage, and alterations. Material lists, analysis of building costs, certificates, contract price adjustment provisions (CPAP) and final accounts.

KSH 700 Construction quantities 700

Academic organisation: Construction Economics

Contact time: 1 ppw 3 lpw Period of presentation: Year Language of tuition: English

anguage of tuition: English Credits: 24

Module content:

Preliminaries and pricing thereof, different types of bills of quantities, tender documentation, economical designs, builder's quantities and building cost estimates, analysis of building costs, calculation of professional fees. Practical contractor's administration and internal and external cost management. Project and Construction Management Professions Act; Council for the Built Environment Act (CBE Act);

Construction Industry Development Board Act (CIDB Act). Geotechnical and civil engineering works.

LAN 212 Landscape architecture 212 Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 8

Module content:

Introductory Botany and plant diversity; plant design philosophy; criteria and process for plant material selection and preparing plant material lists; plant classification; identification of genera and species.

LAN 222 Landscape architecture 222 Academic organisation: Architecture

Prerequisite: LAN 212 GS Contact time: 3 low

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

The role of plant geography in plant selection and the identification of plant species specific to their natural environment; practical considerations in plant selection.

LAN 890 Dissertation: Landscape architecture 890

Academic organisation: Architecture

Period of presentation: Year

Language of tuition: English Credits: 180

LAN 990 Thesis: Landscape architecture 990

Academic organisation: Architecture

Period of presentation: Year

Credits: 360 Language of tuition: English

MST 223 Material studies 223

Academic organisation: Architecture

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

Introduction to materials with applications in the field of interior design: material families, basic properties and selection. Wall (partition), ceiling and floor finishes. Window treatments. Ceramics as architectural finishes. Surface theory 1 (including

colour and interior paint applications).

MST 313 Material studies 313

Academic organisation: Materials Science and Metallurgical Engineering

Prerequisite: TKS 212 and MST 223

Contact time: 3 lpw

Period of presentation: Semester 1

Credits: 16 Language of tuition: English

Module content: Unconventional co

nstruction materials: properties, applications.

MST 323 Material studies 323

Academic organisation: Architecture

Prerequisite: MST 313 Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

Application of materials in artificial environments:

Development of modern materials and processes in product design

New applications in technical textiles, polymers and other artificial materials

Material selection and technical development in conjunction with projects in design

(ONT 303) and construction (KON 320)

NNM 320 Research methodology 320

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2 Language of tuition: Both Afr and Eng

Module content: Introduction to scientific research. Planning and preparation of a research project.

Credits: 6

Different research methods.

NNM 820 Research methodology 820

Academic organisation: Construction Economics

Contact time: 10 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 10

OKU 120 Design communication 120 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Double Medium Credits: 6

Module content:

Quarter 3: Introduction to basic computer aided design.

Quarter 4: Introduction to the theory of structures: Forces, moments, stresses, strains,

Young's Modulus, Structural components: beams, columns and trusses.

OKU 313 Design communication 313 Academic organisation: Architecture Contact time: 2 lpw 2 studio hours per week

Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 6

Module content:

Advanced graphic and presentation techniques.

OMG 122 History of the environment 122

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Introduction to the vocabulary of the built environment as developed ove r the history of human settlement. Concise history of the development of the built environment from early settlement to modern cities. The role and responsibilities of the built environment professional in engaging with built environment heritage in the form of cultural and natural landscapes.

OMG 310 History of the environment 310

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

Module content:

History of the environment of African societies between the tropics within global

context until the present.

OMG 320 History of the environment 320

Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 6

Module content:

History of the environment of Southern African societies from the old Stone Age until

the present.

OML 110 Environmental theory 110 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Double Medium Credits: 6

Module content:

Introductory contextualisation of twentieth century artefacts within the framework of history from Antiquity to Modernity. Building types as artefacts of material culture. Approaches and guidelines to the study of history of the environment. Understanding of the process of endemic construction and its monumentalisation, settlement and urbanisation of various ages and environments. An interdisciplinary investigation of living spaces as shapers of social interaction. The history of the environment of the Mediterranean Antique. Bronze Age. Classical and Biblical societies.

OML 120 Environmental studies 120 Academic organisation: Architecture Contact time: 2 low

Period of presentation: Semester 2

Language of tuition: Double Medium Credits: 6

Module content:

The history of the environment of and the link between North-Europe and the Mediterranean area, the Arabic peninsula and the Indies, from the fall of Jerusalem up until the fall of Constantinople in 1453 AD. Tao, Shinto and the landscape of the Far East.

OML 210 Environmental theory 210 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

Module content:

The history of the environment and the link between North-Europe and a newly discovered world from the time of the circumnavigation of the southernmost Cape Point of Africa till the Industrial Revolution.

OML 220 Environmental studies 220 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng Credits: 6

Module content:

History of the environment of Western societies and their dominions from the Industrial Revolution up to the intellectual questioning of Modernism. Southern African housing typologies and Western artefacts as manifestation of socio-political realities since 1488 AD.

OML 310 Environmental studies 310 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 6
Module content:

Normative positions: Normative positions that guide design thinking: Surface features, broad inclinations and differentiating features. Problems of substantiation. Theory and practise.

Theory of design disciplines: A hermeneutic appraisal of contemporary philosophical directions defining the current intellectual context in which the design disciplines are practised and appraised. Contextualising culture, philosophy and science as the ecosystem of the designer.

Housing studies: Contemporary theory, approaches and projects in housing. Developing a personal approach.

OML 320 Environmental studies 320 Academic organisation: Architecture

Prerequisite: OML 310 GS

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 6

Module content:

The relationship between global intellectual movements and the local debate. Appraising the state of current design production and the establishment of identity through design. Presentation is programme specific.

ONT 100 Design 100

Academic organisation: Architecture

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 60

Module content:

Introduction to design and integration with supporting modules. Design principles, skills and techniques. Small-scale design projects and environmental influences (physical, social, cultural, historical), space requirements and creative interpretation. Acquisition of skills in design communication through imagination, intuition and conceptual thinking. Relation of internal to external space. Anthropometry and ergonomics; visual

literacy (visual media, analysis and interpretation) and criticism. The designer as visual thinker. Perception; ideograms. Development of a vocabulary to describe and illustrate the discipline of design. Pertinent theory that informs and supports the design process.

ONT 200 Design 200

Academic organisation: Architecture

Prerequisite: AAL 110, KON 111, KON 121, OML 110, OML 120 and ONT 100

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: Double Medium Credits: 60

Module content:

The process and product of design through the integration of supporting modules. Spatial design as response to tectonic and contextual influences. The production of space and the reading of place as central concerns in the design disciplines. The design of residential and simple public spaces and buildings with the emphasis on planning, plan-making, structure and economy as design determinants. Skills: programming, site analysis, time management, advanced graphic and reprographic techniques. Pertinent theory that informs and supports the design process in architecture.

ONT 202 Design 202

Academic organisation: Architecture

Prerequisite: AAL 110, KON 111, KON 121, OML 110, OML 120 and ONT 100

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 60

Module content:

The process and product of design through the integration of supporting modules. Site planning and design; design determinants. Exploration of meaning and integrity in landscape design. Skills: programming, site analysis, creative design, time management, advanced graphic techniques, reprographic techniques. Pertinent theory that informs and supports the design process in landscape architecture.

ONT 203 Design 203

Academic organisation: Architecture

Prerequisite: AAL 110, KON 111, KON 121, OML 110, OML 120 and ONT 100

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 60

Module content:

The process and product of design through the integration of supporting modules. Spatial design as response to user. Design of inclusive environments, reuse of architectural space, planning and form-giving processes, production and identity as design determinants. The influence of perception, ergonomics and the tectonics on space making. Scenographic, product, exhibition or installation design. Skills: programming, architectural space analysis, time management, advanced graphic and

reprographic techniques.

Pertinent theory that informs and supports the design process in interior architecture.

ONT 300 Design 300

Academic organisation: Architecture

Prerequisite: KON 210, KON 220, OML 210, OML 220 and ONT 200

Contact time: 17 studio hours per week 2 lpw

Credits: 60

Period of presentation: Year Language of tuition: English

Module content:

Semester 1

The process of design through the integration of supporting modules. The design of spaces and buildings with the emphasis on lateral thinking and ritual. Skills: technology-backed reprographic techniques, competitions and exhibitions, decision making and time planning.

Semester 2

The product of design through the integration of supporting modules. The design of a mixed-use project in an urban context with a complex program developed to construction drawings in KON 320. Statutory requirements, feasibility and payability studies.

ONT 302 Design 302

Academic organisation: Architecture

Prerequisite: KON 210, KON 220, OML 210, OML 220 and ONT 202

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 60

Module content:

Semester 1

The process of design through the integration of supporting modules. Understanding and investigating urban form, urban ecology and site ecology. Site planning: exploration of complexities at neighbourhood and regional scale including ecological, economic and social planning aspects. Design: framework and master planning at regional context. Skills: technology-backed reprographic techniques, competitions and *exhibitions*, decision making and time planning.

Semester 2

The product of design through the integration of supporting modules. Exploration of detail urban ecology, economic and social aspects, and historic and cultural environments. Site planning: Interdisciplinary problem solving with emphasis on site design and sustainable and appropriate technologies. Design: complex detail design and sketch plans developed to construction drawings in KON 320.

ONT 303 Design 303

Academic organisation: Architecture

Prerequisite: KON 210, KON 220, OML 210, OML 220 and ONT 203

Contact time: 17 studio hours per week 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 60

Module content:

Semester 1

The process of design through the integration of supporting modules. The design of spaces with the emphasis on lateral thinking and ritual through adaptive reuse. Skills: technology-backed reprographic techniques, competitions and exhibitions, decision making and time management.

Semester 2

The product of design through the integration of supporting modules. The design of a commercial project in an existing architectural envelope in an urban context with a complex program developed to construction drawings in KON 320. Corporate identity, statutory requirements, feasibility and payability studies, tenant mix.

PJS 320 Practice management 320

Academic organisation: Construction Economics

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng Credits: 8

Module content:

The structure of the built environment in South Africa; basic principles and techniques of project management and financial management; methodology of measuring; building cost estimates; feasibility studies; economic design; contract administration; valuation of buildings.

PMN 720 Property investment 720

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 6

Module content:

The nature and scope of real estate investment, objectives of property developers, participants in the property investment process, the investment decision process,

investment criteria, investment time horizons, decision making approaches

PMN 820 Property investment 820

Academic organisation: Construction Economics Contact time: : 20 contact hours per semester

Period of presentation: Semester 2

Language of tuition: English Credits: 10

POU 700 Practical development feasibility 700 Academic organisation: Construction Economics Contact time: 20 contact hours

Period of presentation: Semester 1 and Semester 2

Language of tuition: English Credits: 2

PRB 892 Essay: Project management 892
Academic organisation: Construction Economics

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 60

PWT 312 Plant science 312

Academic organisation: Architecture Prerequisite: LAN 212 and LAN 222

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 8

Module content:

Plant community studies and conservation within the context of urban open space; implications and management of weeds and invaders, red-data lists and rare and endangered species.

Technical aspects regarding the establishment of plants and the maintenance thereof. Approaches to the establishment of planting in complex urban environments.

PWT 322 Plant science 322

Academic organisation: Architecture

Prerequisite: PWT 312 GS

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 8

Module content:

Ecological principles for planting in reclamation and resettlement. Environmental

legislation with reference to environmental management and monitoring.

RFP 700 Project component (Capita selecta) 700

Academic organisation: Architecture

Contact time: 1 spw

Period of presentation: Consult the department

Language of tuition: English Credits: 60

Module content:

A capita selecta of the various modules related to the research field that the student is advised to follow by the research field coordinator. Research fields:

Environment potential

· Housing and urban environments

Heritage and cultural landscapes.

RFP 710 Research field project 710 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 711 Research field project 711 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 712 Research field project 712
Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 713 Research field project 713 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 720 Research field project 720 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 20

RFP 721 Research field project 721 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 722 Research field project 722 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 723 Research field project 723 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits16

RFP 730 Research field project 730 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 731 Research field project 731 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 732 Research field project 732 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFP 733 Research field project 733 Academic organisation: Architecture

Contact time: 7 ppw

Period of presentation: Consult the department

Language of tuition: English Credits: 16

RFS 700 Theory component (Capita selecta) 700

Academic organisation: Architecture

Contact time: 1 dpw 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 30

Module content:

A capita selecta from one of the following departmental research fields:

Environment potential

Housing and urban environments

Heritage and cultural landscapes.

RFS 710 Research field studies 710 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 32

RFS 720 Research field studies 730 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 32

RFS 730 Research field studies 730 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 32

RFS 740 Theory component 740 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Consult the department

Language of tuition: English Credits: 8

RFS 890 Research field studies 890 Academic organisation: Architecture

Contact time: 2 lpw

Period of presentation: Year

Language of tuition: English Credits: 35

SKE 110 Introduction to structures 110
Academic organisation: Civil Engineering

Contact time: 1 dpw 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 9

Module content:

Design; basics (forces, moments, equilibrium, reactions, stress, strain); materials; loads;

pin-iointed trusses: tension members.

SKE 120 Structures 120

Academic organisation: Civil Engineering

Prerequisite: SKE 110 GS Contact time: 2 lpw 1 tpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 9

Module content:

Beams (shear force and bending moment, bending and shear stresses, design of standard beams in steel, concrete and timber, section properties, lateral restraint); compression members; combined axial and bending; deflection.

SKE 210 Reinforced concrete structures 210

Academic organisation: Civil Engineering Prerequisite: SKE 120 GS

Contact time: 2 lpw

Period of presentation: Semester 1
Language of tuition: Both Afr and Eng Credits: 9

Module content:

Properties of reinforced concrete; construction methods; slabs; beams; columns; foundations; retaining walls; placement of reinforcement in the various structural members; basic concepts of pre-stressed concrete.

SKE 220 Civil engineering services 220

Academic organisation: Civil Engineering

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 9

Module content:

Water reticulation; sewerage reticulation; storm water reticulation; roads.

SSB 890 Dissertation: Town and regional planning 890 Academic organisation: Town and Regional Planning

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 180

SSB 990 Thesis: Town and regional planning 990 Academic organisation: Town and Regional Planning

Period of presentation: Year

Language of tuition: Both Afr and Eng Credits: 360

STU 211 Theory of structures 211

Academic organisation: Civil Engineering

Contact time: 3 lpw

Period of presentation: Semester 1 **Language of tuition:** Both Afr and Eng

Language of tuition: Both Afr and Eng Credits: 8

Module content:

Introduction to structural engineering concepts like design, analysis, sizing and planning of structures. Introduction to Newton's laws, equilibrium, free body diagrams. The application of equilibrium in solving reactions of statically determinate structures. The principles of determinacy and stability of structures. The application of Newton's laws in determining the internal forces in common structural systems like cable structures, trusses, frames and beams. The fundamental principles of weight and forces and how forces are transmitted through structural members and load tracing.

STU 221 Theory of structures 221

Academic organisation: Civil Engineering

Prerequisite: STU 211 GS

Contact time: 3 lpw

Period of presentation: Semester 2
Language of tuition: Both Afr and Eng

Language of tuition: Both Afr and Eng Credits: 8

Module content:

Introduction to material science in structural engineering. Concepts like stress, strain, elasticity, stress-strain diagrams, elasticity modules, strength and deformation as applied in structural engineering. Cross-sectional properties of structural elements. Types of stresses, and their transmission in structural elements. Introduction to the relationship between stress and strain (deflection) in beams by Coulomb's theory. Introduction to the analysis of compressive structural elements by means of Euler's theory.

STU 311 Theory of structures 311
Academic organisation: Civil Engineering
Prerequisites: STU 211 and STU 221

Contact time: 3 lpw

Period of presentation: Semester 1
Language of tuition: Both Afr and Eng Credits: 8

Module content:

1. Concrete Structures.

Loads on concrete structures, Limit-states design principles.

- Bending, shear and punching: Design of beams, slabs and footings.
- Compression members: Design of columns.
- 2. Load bearing brickwork.
- Limit-states design principles. Effective length and width of compression members.

STU 321 Theory of structures 321

Academic organisation: Civil Engineering

Prerequisite: STU 311 GS

Contact time: 3 lpw

Period of presentation: Semester 2 Credits: 8 Language of tuition: Both Afr and Eng

Module content: Timber structures

- · Loads on typical timber structures, Limit-states design principles
- · Bending, shear and deflection: Design of flexural members without and with axial
- Tension members: Tension members in roof trusses.
- Compression members: Design of compression members in trusses and as support members for trusses
- Bracing systems
- 2. Steel Structures

Loads on typical steel structures, Limit-states design principles

- · Bending, shear and deflection: Design of flexural members without and with axial loads
- Tension members: Tension members in roof trusses
- Compression members: Design of compression members in trusses and as support members for trusses
- Bracing systems

TMS 320 Transport planning and municipal services provision 320

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 2 Language of tuition: Double Medium

Credits: 16 Module content:

Section A - Transport planning: environmental, economic and social impact of transport; transport planning process; introduction to transport studies and evaluation; public transport; functional road hierarchy; geometric road layout; road reserve dimensions; parking; preparation of a layout.

Section B - Municipal services provision: water supply; sanitation; stormwater disposal; energy supply; public lighting; solid waste removal; inclusion of municipal services in the layout.

TPA 110 Site analysis and assessment 110

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 1

Credits: 16 Language of tuition: English

Module content:

Analysis and assessment of sites for planning purposes. Covers the analysis of context and natural (e.g. climate, geology), man-made (e.g. zoning, potential land value, land use and activity), and sensory elements (e.g. genius loci) of a site to determine the appropriate use of a site as well as the character of future development. Skills and techniques to communicate the analysis and assessment graphically.

TPA 120 Settlement analysis and assessment 120 Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 16

Module content:

Theoretical component: South African cities in a global economic and national context; a framework for settlement analysis; overview and discussion of important demographic, social, economic, environmental and local government features of selected South African cities. Practical component: basic writing and presentation skills for planners; field methods; participatory methods; surveys; secondary sources; settlement analysis in a political context; analysis of a suburb in the Pretoria area.

TPA 210 Plan and policy analysis and assessment 210 Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Analysis and assessment of plans and policy frameworks from a planning and development perspective. Analysis and assessment of substantive and communicative content. Deconstruction of text, norms and values, planning and development approaches. The role of planners and the democratisation of planning.

TPD 210 Introduction to development planning 210 Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Introduction to development problems, perspectives on and concepts of development. Approaches to development planning and development studies. Application of development proposals from local to national levels. International and local perspectives and case studies. Critical evaluation of development initiatives, and aspects such as culture, gender, diversity and sustainability. Role players in the development process.

TPD 220 Municipal development planning 220
Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

Theories and processes of strategic, forward, and integrated development planning; origins and intentions of these concepts; international and local perspectives and case studies; policy framework for development planning in the South African context; role players in development planning processes, with specific reference to the role of the planner and the community; introduction to the concept, theory, aims, processes and practise of participatory planning.

TPD 310 Regional development planning 310
Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Theory and practice of regional development planning; strategic regional development analysis and thinking; preparation and implementation of regional development frameworks, and plans and strategies on supranational, national, provincial and metropolitan levels.

TPD 320 Rural development planning 320

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Rural development in historical, political, ideological, social, economical, geographical and institutional context; theoretical perspectives on and approaches to rural development; case studies of rural development planning and plans in different developmental contexts; preparation, implementation and evaluation of rural development frameworks, strategies and plans.

TPD 820 Integrated development planning 820
Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 2

Language of tuition: English Credits: 20

Module content:

Introduction to development and development planning theories; the integrated development planning process; legal, institutional and policy frameworks in which integrated planning functions in South Africa; implementation of integrated development plans; case studies of integrated development planning; simulations of integrated development planning exercises.

TPE 410 Research methodology 410

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Defining research; research paradigms; research ethics; research problems/questions; literature reviews; research design; selected qualitative and quantitative methods for data collection, analysis and interpretation; reporting research; formulation of a research proposal.

TPE 420 Research report 420

Academic organisation: Town and Regional Planning

Prerequisite: TPE 410 Contact time: 1 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 30

Module content:

Contextualisation of a research problem/question; literature review; research design and methods; undertake empirical research in line with an approved research proposal; collection, analysis and interpretation of data; writing up of research findings.

TPE 810 Research methodology 810

Academic organisation: Town and Regional Planning

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

Defining research; research paradigms; research ethics; research problems/questions; literature reviews; research design; selected qualitative and quantitative methods for data collection, analysis and interpretation; reporting research; formulation of a research proposal.

TPE 820 Mini-dissertation 820

Academic organisation: Town and Regional Planning

Prerequisite: TPE 810

Period of presentation: Semester 2

Language of tuition: English Credits: 60

Module content:

Contextualisation of a research problem/question; literature review; research design and methods; undertake empirical research in line with an approved research proposal; collection, analysis and interpretation of data; writing up of research findings.

TPH 110 Planning and settlement histories before the Industrial Revolution 110

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

An in-depth analysis of city building and urban and regional planning in pre-modern times. The influence on settlement design and planning within the social, political and economic context of the Pre-historic; Classic (Roman and Greek); Feudal and Mercantile eras. Aspects such as visions of ideal cities, settlement patterns, the treatment of public space, the development of the edge of the settlement, functional zones and segregation are covered. Attention is given to the function, role, character, practice and beneficiaries of planning and the role of planners.

TPH 120 Planning and settlement histories since the Industrial Revolution 120

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

An in-depth analysis of city building and urban and regional planning in modern and post-modern times with special emphasis on the South African situation. The influence on settlement design and planning within the social, political and economic context of Industrial and Post-industrial eras. Aspects such as visions of ideal cities, settlement patterns, the treatment of public space, the development of the edge of the settlement, functional zones and segregation are covered. Attention is given to the function, role, character, practice and beneficiaries of planning and the role of planners.

TPI 451 Planning interventions: Precinct scale 451 Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

The drafting of urban development and design frameworks to ensure development or redevelopment of urban areas in a relevant, social and environmentally accountable way. Specific focus on rehabilitation of declining city centres, fast growing edge cities, and underdeveloped parts of urban areas. Critique on and improvements of current practice; simulated planning exercise.

TPI 452 Planning interventions: Peri-urban and rural scale 452

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Introduction to planning and management of small towns, rural settlements, and periurban/rural districts; examples of planning interventions in rural areas; approaches to rural development, techniques and methods for planning in rural areas. Critique on and improvements on current practice: simulated planning exercise.

TPI 453 Planning interventions: Metropolitan scale 453 Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

Introduction to planning at metropolitan level; examples of planning interventions at metropolitan level; approaches to and examples of the delivery of housing, infrastructure and facilities; tensions in resource allocation and prioritising of development in metropolitan areas; institutional requirements and implications of planning and management of metropolitan development; critiques and improvements on current practice; simulated planning exercise.

TPI 454 Planning interventions: Supranational, national and provincial scale 454

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Introduction to planning at provincial, national and supranational scale. Approaches to planning and development of regions and provinces. Past and present examples of planning on each of these scales. Planners' roles in planning exercises at these scales; institutional requirements and implications of planning at these scales. Critiques and improvements on current practice; simulated planning exercise.

TPI 811 Metropolitan and urban area-based interventions 811

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

Scope, nature and rationale of metropolitan and urban area-based interventions; unique problems in metropolitan areas, for example inner city decay, fringe development, housing, services backlog, the dysfunctional apartheid cityscape and dependency on private transport; types of intervention (inter alia institutional, spatial,

economic and social) in order to accomplish restructuring and development in metropolitan areas in South Africa in a relevant, social and environmentally accountable way; policy and legislation regarding urban restructuring and development in South Africa; international and local case studies; impact of globalisation on South African metropolitan areas and major cities; simulated metropolitan and urban area-based intervention exercise.

TPI 821 Regional interventions 821

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester Period of presentation: Semester 2

Language of tuition: English Credits: 20

Module content:

Scope, nature and rationale of regional interventions on both a supra-national and subnational scale; approaches to planning and development on continental, macro-regional, provincial and district scales; types of intervention (inter alia institutional, spatial, economic and social) in order to accomplish restructuring and development in regions in a relevant, social and environmentally accountable way, past and present examples of planning on each of these scales; planners' roles in planning exercises at these scales; critiques and improvements on current practice; rural urban linkages and their significance for regional interventions; debates around the way in which problems facing rural settlements (such as the absence of an economic base and necessary infrastructure, lack of access to land and conflicting demands on natural resources) in regions can be addressed; international and local case studies; simulated regional intervention exercise.

TPS 120 Principles of settlement design 120

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

Introduction to the goals and principles of settlement design. Characteristics and measures as well as the design elements of a good living-environment; settlement design within both urban and rural contexts.

Aspects that will be covered include settlement structure (open space and movement systems), sense, symbolism and legibility, accessibility, diversity and opportunity, sustainability, safety, justice and equity.

TPS 210 Settlement design concepts 210

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 16

Module content:

The skills and techniques to design a layout of a new settlement or part of an existing settlement. It includes design for the provision of housing for both high and low income groups, as well as commercial and social facilities, open space systems, transportation systems and services. Design sustainable and equitable areas. Site analysis and assessment; development of alternative concepts; the detail design including the division of erven, infrastructure network, land development control and design guidelines.

TPS 220 Settlement establishment and housing delivery 220

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 16

Module content:

Institutional and legal frameworks in which settlement establishment and housing provision takes place; user and site requirements; housing typologies and densities; engineering services; role players; financing; township establishment in terms of current legislation; simulated exercise; the detail design including the division of erven, infrastructure network, land development control and design guidelines.

TPS 310 Spatial concepts 310

Academic organisation: Town and Regional Planning

Contact time: 1 ppw 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 16

Module content:

Spatial concepts regarding the development and planning of settlements. Morphological development processes such as decentralisation, counter urbanisation, residential infill and succession, urban sprawl. Spatial structuring elements, e.g. corridors, nodes, compact cities, mixed use.

TPS 810 Sustainable settlement planning and design 810 Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

Normative principles for sustainable settlement planning and design; design theory; planning and design processes; simulated urban and rural settlement planning and design exercise.

TPS 820 Introduction to urban design 820

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 2

Language of tuition: English Credits: 20

Module content:

Theory of urban design and its relation to town and regional planning; urban design principles for well-performing settlements; urban design process; urban design frameworks and precinct plans; simulated urban design exercise at neighbourhood level.

TPU 210 Land use management theory 210

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

A brief history of land use management in South Africa; rationale for land use management; principles of good land use management in the context of

transformation and development imperatives in post-apartheid South Africa, global environmental change, new economic geography, procedural, substantive and intergenerational justice and development economics; critique of land use management; ethics of land use management; the characteristics of an appropriate land use management system that advances transformation, sustainability, resilience, equity, inclusiveness and integration in South Africa; the link between land use management and strategic spatial planning; international and South African examples of land use management systems; the future of land use management.

TPU 261 Urban land development economics 261
Academic organisation: Town and Regional Planning

Period of presentation: Quarter 3

Language of tuition: English Credits: 6

Module content:

Contact time: 3 lpw

The economics of settlements, including aspects such as economic advantages, transformation, equity, integration and inclusiveness; locational choices of urban land uses; density and intensity of development; the effects of densities, location and transportation economics on land values; implications of zoning; implications for sustainability and risk reduction; the cost of urban growth, whether by densification or sprawl. The functioning of the property market, e.g. how the property market works for the urban poor; key role players and decision-making in the property market; the role of urban planning as well as local government and their financial viability in the property market.

TPU 262 Land use management practice 262 Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Quarter 4

Language of tuition: English Credits: 6

Module content:

Generic components of land use and land development applications and procedures; practical exercises in the preparation, submission, processing and evaluation of land use management applications; policy preparation in terms of land use management systems that advance equity, resilience, inclusiveness, sustainability and integration; appeals; introduction to Environmental Impact Studies (EIAs).

TPU 810 Land use management and land development 810

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

A brief history of land use management in South Africa; rationale for land use management; principles of good land use management in the context of transformation and development imperatives in post-apartheid South Africa, global environmental change, new economic geography, procedural, substantive and intergenerational justice and development economics; critique of land use management; ethics of land use management; the characteristics of an appropriate land use management system that advances transformation, sustainability, resilience, equity, inclusiveness and integration in South Africa; the link between land use management and strategic spatial planning; international and South African examples of land use management systems; the future of land use management. Generic components of land use and

land development applications and procedures; practical exercises in the preparation, submission, processing and evaluation of land use management applications; policy preparation in terms of land use management systems that advance the principles of effective, efficient and sustainable land use management; appeals; introduction to Environmental Impact Studies (EIAs).

TPW 310 Institutional and legal structures for planning 310

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Overview of South African institutional and legal structures for planning and development, on national and provincial scale. Relevant legislation and policies that influence planning. Specific reference to the legal frameworks guiding land development, the environment, municipal management and development, housing, transport, water, and Human Rights.

TPW 810 Institutional and legal structures for planning 810

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

Overview of South African institutional and legal structures for planning and development, on national and provincial scale. Relevant legislation and policies that influence planning. Specific reference to the legal frameworks guiding land development, the environment, municipal management and development, housing, transport, water, and Human Rights.

TRP 110 Introduction to planning 110

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

Module content:

Definitions of planning; rationale for planning; focus areas of planning; planning processes; planners' roles and work places; the institutional framework for planning; planning legislation; values and ethics of planners; the future of planning.

TRP 320 Planning prospects 320

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 12

Module content:

Critical reflections on planning as construct, activity and profession. Case study-based

exploration of innovative planning practices.

TRP 412 Professional practice 412

Academic organisation: Town and Regional Planning

Contact time: 3 lpw

Period of presentation: Quarter 2

Language of tuition: English Credits: 6

Module content:

Starting a career in the planning profession (including issues such as public vs. private sector employment, essential skills required, applying for vacancies, interaction with co-workers and other parties, company culture, client relationships, workplace ethics); developing a career in the planning profession (including issues such as essential communication-, management- and political-skills, typical mistakes to avoid in practice, setting a career path); introduction to project management; an overview of professional planning organisations in South Africa; remaining issues for class discussion, such as marketing, client service, promotion and time management.

TRP 810 An overview of planning theory and practice 810

Academic organisation: Town and Regional Planning

Contact time: 40 contact hours per semester

Period of presentation: Semester 1

Language of tuition: English Credits: 20

VKN 320 Sustainable construction 320

Academic organisation: Construction Economics

Contact time: 2 lpw

Period of presentation: Semester 2
Language of tuition: Double Medium

Module content:

Introduction to sustainable development and general sustainable construction principles, processes and technology. Sustainable practices on the construction site. Relevant regulations and voluntary programmes, including an introduction to 'Green Star' rating.

Credits: 6

List of modules presented by other faculties

Faculty of Engineering, Build Environment and Information Technology School of Information Technology

AIM 101 Academic information management 101 Academic organisation: Information Science

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

AIM 102 Academic information management 102
Academic organisation: Information Science

Contact time: 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 6

Module content:

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

Faculty of Humanities

ALL 122 Academic literacy for Construction Economics 122

Academic organisation: Unit for Academic Literacy

Contact time: 2 lpw 1 wbppw Period of presentation: Semester 1

Language of tuition: English Credits: 6

Module content:

By the end of this module students should be able to cope more confidently and competently with the reading, writing and critical thinking demands that are characteristic of the field of Construction Economics.

ALL 123 Academic literacy for Town and Regional Planning 123

Academic organisation: Unit for Academic Literacy

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 6

Module content:

By the end of this module students should be able to cope more confidently and competently with the reading, writing and critical thinking demands that are characteristic of the field of Town and Regional Planning.

SOC 110 Sociology 110

Academic organisation: Sociology

Contact time: 3 lpw 1 tpw

Period of presentation: Semester 1 Language of tuition: Both Afr and Eng

Language of tuition: Both Afr and Eng Credits: 12

Module content:

Part 1: The individual and society

An introduction to sociology, the classical sociological paradigm and the principles of

sociological research.

Part 2: The making of the South African order

This section explores key factors involved in the making and shaping of the contemporary South African social order and considers the sociological implications thereof. Students will be introduced to the political economy of South Africa, with an emphasis on the nature of South Africa's industrialisation, the process of proletarianisation and the introduction of the migration labour system. In addition, the racial state, the foundations of its social project, and the spatial form of its 20th century racial modernity will be considered.

SOC 120 Sociology 120

Academic organisation: Sociology

Contact time: 3 lpw 1 tpw

Credits: 12

Period of presentation: Semester 2 Language of tuition: Both Afr and Eng

Module content:

Part 1: The sociology of institutions

An introduction to the social dynamics of institutions such as the family, the state, the economy, religion, education, and civil society, with a specific focus on Southern Africa.

Part 2: Social stratification: Race, class and gender

The nature and dynamics of social stratification and inequality will be explored. Race, gender and class are the foci of the section. The South African experience is accentuated

SOC 210 Sociology 210

Academic organisation: Sociology Prerequisite: SOC 110(GS), 120(GS)

Contact time: 3 lpw 1 tpw

Period of presentation: Semester 1

Language of tuition: English Credits: 20

Module content:

Part 1: Sociology of work: Globalisation

The contemporary process of globalisation at a world level impacts on the process of change and economic development. This section will discuss processes and debates associated with economic globalisation and the global dominance of finance capital in the late 20th and early 21st century. We will review contemporary debates associated with these issues.

Part 2: Gender, family and households

This section focuses on theories and issues relevant to the understanding of households, families and gender. It addresses thematics such as dynamic family structures, poverty, the survival strategies of poor households, gender-based violence and the ways in which the aforementioned affect family life and forms as well as children and youth in particular. A special emphasis is placed on exploring these issues in a Southern African context.

SOC 220 Sociology 220

Academic organisation: Sociology Prerequisite: SOC 110, SOC 120(GS) Contact time: 3 lpw 1 tpw

Period of presentation: Semester 2

Language of tuition: English Credits: 20

Module content:

Part 1: Demography, health and society

This section explores the dynamic relationship between demography and health, with examples drawn from South African and international case studies. The substantial increase in world population during the past century compounds key issues faced by contemporary societies. Interplay between demographic processes, such as morbidity, mortality, fertility and mobility, impact on the size of a population. In turn, these are to an extent shaped by the structure of a population as well as the cultural context of a society. Central to this are concerns around health and disease.

Part 2: Cultural Sociology

This section explores themes in cultural sociology, with an emphasis on the ways in which meaning is constructed in everyday life by individuals as well as collectives, on the one hand, and the intersection between culture and institutional forms and social structure on the other. Students will be introduced to the work of some of the key thinkers in the field, and will be provided with the opportunity to write an independent

essay on a theme in cultural sociology.

SOC 310 Sociology 310

Academic organisation: Sociology

Prerequisite: SOC 120, SOC 210(GS), SOC 220(GS)

Contact time: 3 lpw 1 ppw

Period of presentation: Semester 1

Language of tuition: English Credits: 30

Module content:

Part 1: Social theory

This section focuses on contemporary social theory, in order to extend and broaden students' understanding of social theory beyond the classical canon. Students will be introduced to key conceptual vocabularies, theoretical paradigms and contemporary bodies of work in social theory. In addition, the way in which scholars who work on South Africa have drawn on social theory to inform and enrich their work is emphasized.

Part 2: Labour studies

The section addresses sociological approaches to the workplace. It will critically assess labour market policy and examine issues such as management practice, employment and unemployment, and discrimination and flexibility in the labour market in South Africa.

SOC 320 Sociology 320

Academic organisation: Sociology Prerequisite: SOC 210, SOC 220(GS)

Contact time: 3 lpw 1 ppw

Period of presentation: Semester 2

Language of tuition: English Credits: 30

Module content:

Part 1: Rural and urban sociology

This section considers the relationship between the rural and urban, against the backdrop of the emergence and development of both capitalism in its various guises and gobalisation within the twentieth and twenty-first centuries in the global North and South. Questions on the nature of social interaction in communities, changing ways of relating, inequality and livelihoods, collective action, local cultures and modernities are considered.

Part 2: Sociology of religion

This section looks at religion and secularism in social context. Specific emphasis is placed on religion and secularism as forces for social change.

Faculty of Natural and Agricultural Sciences

GGY 265 Geomorphology of the built environment 265

Academic organisation: Geography, Geoinformatics and Meteorology

Contact time: 4 lpw

Period of presentation: Quarter 3

Language of tuition: Double Medium Credits: 12

Module content:

*This module is for Architecture and Landscape Architecture students only. The theory component covers geomorphological aspects of the built environment including landscape identification; weathering or deterioration of natural stone and application to design and preservation of buildings and monuments; slope hydrology

and stability conditions; soil erosion processes and construction impacts; drainage modification in urban areas; wetland identification, human impacts and rehabilitation; recreational impacts and management. In addition to the theory a field-based project is undertaken.

GGY 283 Introductory geographic information systems 283

Academic organisation: Geography, Geoinformatics and Meteorology

Contact time: 2 lpw 1 ppw

Period of presentation: Semester 1

Language of tuition: English Credits: 12 Module content:

*This is a closed module, only available to students studying [BTandRP] (12132022), [BSc(Arch)] (12132002), [BSc(LArch)] (12132004), BSc Meteorology (02133312), BSc Geoinformatics (02133383), BSc Environmental Science (02133361), BSc Earth Sciences (02133012), BSc Geography (02133385), BEd Further Education and Training (General) (09133040), BSecEdSci (02135001), BA (01130001) or as approved by the head of department. The content of this module is the same as GIS 221 and students are not allowed to earn credits for both GGY 283 and GIS 221. Introduction to Geographic Information Systems (GIS), theoretical concepts and applications of GIS. The focus will be on the GIS process of data input, data analysis, data output and associated technologies.

GKD 250 Introductory soil science 250

Academic organisation: Plant production and soil science

Prerequisite: CMY 117 GS or TDH

Contact time: 3 lpw 1 ppw

Period of presentation: Semester 1
Language of tuition: Both Afr and Eng
Credits: 12
Module content:

Origin and development of soil, weathering and soil formation processes. Profile differentiation and morphology. Physical characteristics: texture, structure, soil water, atmosphere and temperature. Chemical characteristics: clay minerals, ion exchange, pH, buffer action, soil acidification and salinisation of soil. Soil fertility and fertilisation. Soil classification. Practical work: Laboratory evaluation of simple soil characteristics. Field practicals on soil formation in the Pretoria area.

TKS 212 Textiles: utility, fibres and yarns 212

Academic organisation: Consumer Science

Contact time: 1 ppw 3 lpw

Period of presentation: Semester 1
Language of tuition: Double Medium

Language of tuition: Double Medium Credits: 14

Module content:

Utility aspects: basic components of textiles, consumer decision making, utility aspects that include durability, comfort, maintenance, health/safety/protection and aesthetic aspects. Fibres and yarns: Fibre structure and performance including textile chemistry, fibre morphology and formation, fibre properties, classification and identification. Yarn structure and performance (including spun yarns, filament yarns, compound and novelty yarns).

TRN 213 Site surveying 213

Academic organisation: Geography, Geoinformatics and Meteorology

Contact time: 2 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 12

WTW 134 Mathematics 134

Academic organisation: Mathematics and Applied Mathematics

Prerequisite: Refer to Regulation 1.2 in the Natural and Agricultural Sciences Yearbook

Contact time: 4 lpw 1 tpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 16

Module content:

*Students will not be credited for more than one of the following modules for their degree: WTW 134, WTW 114, WTW 158, WTW 165. WTW 134 does not lead to Mathematics at 200 level and is intended for students who require Mathematics at 100 level only.

Functions, derivatives, interpretation of the derivative, rules of differentiation, applications of differentiation, integration, interpretation of the definite integral, applications of integration, matrices, solutions of systems of equations. All topics are studied in the context of applications.

Faculty of Law

ABR 311 Labour Law 311

Academic organisation: Mercantile Law

Contact time: 2 lpw 1 tutorial every second week

Period of presentation: Semester 1 Language of tuition: Both Afr and Eng

Module content:

Basic principles of the employment contract. Collective labour law. Statutory conditions of employment. Individual labour disputes. Collective labour disputes.

Credits: 20

Settlement procedures.

BER 310 Business Law 310

Academic organisation: Mercantile Law

Contact time: 4 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 16

Module content:

Introduction to law. General principles of the law of contract. Specific contracts: purchase contracts; letting and hiring of work; employment contracts. Agency. General

aspects of entrepreneurial law. Dispute resolution – mediation and arbitration.

Faculty of Economic and Management Sciences

EKN 110 Economics 110

Academic organisation: Economics

Contact time: 1 dpw 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 10

Module content:

This course deals with the core principles of economics. A distinction between macroeconomics and microeconomics is made. A discussion of the market system and circular flow of goods, services and money is followed by a section dealing with microeconomic principles, including demand and supply analysis, consumer behaviour and utility maximisation, production and the costs thereof, and the different market models and firm behaviour. Labour market institutions and issues, wage determination, as well as income inequality and poverty are also addressed. A section of money, banking, interest rates and monetary policy concludes the course.

EKN 120 Economics 120

Academic organisation: Economics

Prerequisite: EKN 110 GS or EKN 113 GS and at least 4 (50-59%) in Mathematics in the Grade 12 examination or 60% in STK 113 and concurrently registered for STK 123

Contact time: 1 dpw 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 10

Module content:

This course deals with the core principles of economics, especially macroeconomic measurement the private and public sectors of the South African economy receive attention, while basic macroeconomic relationships and the measurement of domestic output and national income are discussed. Aggregate demand and supply analysis stands core to this course which is also used to introduce students to the analysis of economic growth, unemployment and inflation. The microeconomics of government is addressed in a separate section, followed by a section on international economics, focusing on international trade, exchange rates and the balance of payments. The economics of developing countries and South Africa in the global economy conclude the course

EKN 214 Economics 214

Academic organisation: Economics

Prerequisite: EKN 110 GS and EKN 120 or EKN 113 GS and EKN 123 and STK 110

GS and STK 120 GS Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 16

Module content: Macroeconomics

From Wall and Bay Street to Diagonal Street: a thorough understanding of the mechanisms and theories explaining the workings of the economy is essential. Macroeconomic insight is provided on the real market, the money market, two market equilibrium, monetarism, growth theory, cyclical analysis, inflation, Keynesian general equilibrium analysis and fiscal and monetary policy issues.

EKN 234 Economics 234

Academic organisation: Economics Prerequisite: EKN 214, STK 120

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 16

Module content: Macroeconomics

Application of the principles learned in EKN 214 on the world we live in. We look at

international markets and dynamic macroeconomic models, and familiarise the students with the current macroeconomic policy debates. We also take a look at the latest macroeconomic research in the world. The course includes topics of the mathematical and econometric analysis of macroeconomic issues.

EKN 310 Economics 310

Academic organisation: Economics Prerequisite: EKN 214, EKN 234

Contact time: 1 dpw 2 lpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 20

Module content:

Public finance

Role of government in the economy. Welfare economics and theory of optimality. Ways of correcting market failures. Government expenditure theories, models and programmes. Government revenue. Models on taxation, effects of taxation on the economy. Assessment of taxation from an optimality and efficiency point of view. South African perspective on public finance.

EKN 320 Economics 320

Academic organisation: Economics

Prerequisite: EKN 310 GS Contact time: 1 dpw 2 lpw

Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 20

Module content: Economic analyses

Identification, collection and interpretation process of relevant economic data; the national accounts (i.e. income and production accounts, the national financial account, the balance of payments and input-output tables); economic growth; inflation; employment, unemployment, wages, productivity and income distribution; business cycles; financial indicators; fiscal indicators; social indicators; international comparisons; relationships between economic time series - regression analysis; long-term future studies and scenario analysis; overall assessment of the South African economy from 1994 onwards.

FBS 110 Financial management 110

Academic organisation: Financial Management

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 10

Module content:

*Only for BSc (Mathematical Statistics. Construction Management, Real Estate and Quantity Surveying) and BEng (Industrial Engineering) students. Purpose and functioning of financial management. Basic financial management concepts. Accounting concepts and the use of the basic accounting equation to describe the financial position of a business. Recording of financial transactions. Relationship between cash and accounting profit. Internal control and the management of cash. Debtors and short-term investments. Stock valuation models. Depreciation. Financial statements of a business. Distinguishing characteristics of the different forms of businesses. Overview of financial markets and the role of financial institutions. Risk and return characteristics of various financial instruments. Issuing

ordinary shares and debt instruments.

FBS 120 Financial management 120

Academic organisation: Financial Management

Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 10

Module content:

*Only for BSc (Mathematical Statistics, Construction Management, Real Estate and

Quantity Surveying) students.

Analysis of financial statements. Budgeting and budgetary control. Tax principles and normal income tax for individuals. Time value of money and its use for financial and investment decisions. Calculating the cost of capital and the financing of a business to maintain the optimal capital structure. Capital investment decisions and a study of the financial selection criteria in the evaluation of capital investment projects. The dividend decision and an overview of financial risk management.

FBS 210 Financial management 210

Academic organisation: Financial Management

Prerequisites: BSc Construction Management, Quantity Surveying and Real Estate:

FBS 110, FBS 120, STK 110 and STK 120

Contact time: 3 lpw

Period of presentation: Semester 1

Language of tuition: English Credits: 16

Module content:

Framework and purpose of financial management; understanding financial statements; analysis of financial statements for decision making; time value of money; risk and return relationships; business valuation; short-term planning; current asset management.

FBS 320 Financial management 320

Academic organisation: Financial Management

Prerequisites: FBS 210 Contact time: 3 lpw

Period of presentation: Semester 2

Language of tuition: English Credits: 20

Module content: Module content:

Cost of Capital, Determination of Capital Requirements and the financing of a business to maintain the optimal capital structure, the investment decision and the study of financial selection criteria in the evaluation of capital investment projects, impact of inflation and risk on capital investment decisions, evaluation of leasing decisions, dividend decisions, international financial management, valuation principles and practices: an introduction to security analysis, hybrids and derivative instruments, mergers and acquisitions

STK 110 Statistics 110

Academic organisation: Statistics

Prerequisite: At least 5 (60-69%) in Mathematics in the Grade 12 examination.

Candidates who do not qualify for STK 110 must register for STK 113

Contact time: 3 lpw 1 ppw 1 tpw

Period of presentation: Semester 1

Language of tuition: Both Afr and Eng Credits: 13

Module content:

Descriptive statistics:

Sampling and the collection of data; frequency distributions and graphical representations. Descriptive measures of location and dispersion.

Probability and inference:

Introductory probability theory and theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one and two-sample cases). Identification, use, evaluation and interpretation of statistical computer packages and statistical techniques.

STK 120 Statistics 120

Academic organisation: Statistics

Prerequisite: STK 110 GS or both STK 113 GS and STK 123 GS or both WST 133 and

WST 143

Contact time: 3 lpw 1 ppw 1 tpw Period of presentation: Semester 2

Language of tuition: Both Afr and Eng Credits: 13

Module content:

Multivariate statistics: Analysis of variance, categorical data analysis, distribution-free methods, curve fitting, regression and correlation, the analysis of time series and

Statistical and economic applications of quantitative techniques: Systems of linear equations: drafting, matrices, solving and application. Optimisation; linear functions (two and more independent variables), non-linear functions (one and two independent variables). Marginal and total functions. Stochastic and deterministic variables in statistical and economic context: producers' and consumers' surplus, distribution functions, probability distributions, probability density functions. Identification, use, evaluation, interpretation of statistical computer packages and statistical techniques. This module is also presented as an anti-semester bilingual module.

STK 161 Statistics 161

Academic organisation: Statistics

Prerequisite: STK 110 GS or both STK 113 GS and STK 123 GS

Contact time: 3 lpw 1 ppw

Period of presentation: Quarter 3

Language of tuition: Both Afr and Eng Credits: 6

Module content:

*Offered by the Department of Statistics

Multivariate statistics analysis of variance; categorical data analysis; distribution-free methods; curve fitting, regression and correlation; the analysis of time series and indices. Identification, use, evaluation and interpretation of statistical computer

packages and statistical techniques.

This module is also presented as an anti-semester bilingual module.

School of Information Technology

AIM 101 Academic information management 101

Academic organisation: School of Information Technology

Contact time: 2 ppw

Period of presentation: Semester 1

Language of tuition: Both Eng and Afr Credits: 6

Credits: 6

Module content:

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

AIM 102 Academic information management 102

Academic organisation: School of Information Technology

Contact time: 2 lpw

Period of presentation: Semester 2 Language of tuition: Both Afr and Eng

Module content:

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. Apply effective search strategies in differen technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic

information.