UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

CONSTRUCTION ECONOMICS UNDERGRADUATE DEGREES IN:

CONSTRUCTION MANAGEMENT
QUANTITY SURVEYING
REAL ESTATE

Degrees in Quantity Surveying

What can I do with my degree?

BACCALAUREUS SCIENTIAE (QUANTITY SURVEYING) [BSc(QS)] (Code 12132013)
BACCALAUREUS SCIENTIAE HONORES (QUANTITY SURVEYING) [BSc(Hons)(QS)] (Code 12242014)

Quantity Surveying is the science that delivers specialised financial and contractual services and advice to clients in the construction industry, as well as in other related industries. The quantity surveyor is an independent, professional consultant who acts in co-operation with, among others, the architect, consulting engineers and the contractor to promote the interests of the building client.

There are various job opportunities in the construction industry. Most quantity surveyors find their way to the private sector where they become employees in quantity surveying practices or, after registration with the South African Council for the Quantity Surveying Profession, perhaps partners/directors or can start an own professional practice. Quantity surveyors also act as project managers. Various government departments also employ quantity surveyors and opportunities in the property sector, banking and manufacturing industries are further possibilities. A number of quantity surveyors however also work for construction firms or establish their own building enterprises.

The examinations for the BSc(Hons) 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.

Degrees in Construction Management

What can I do with my degree?

BACCALAUREUS SCIENTIAE (CONSTRUCTION MANAGEMENT) [BSc(Construction Management)] (Code 12132017)
BACCALAUREUS SCIENTIAE HONORES (CONSTRUCTION MANAGEMENT) [BSc(Hons)(Construction management)] (Code 12242015)

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 BSc(Hons) 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.

Degrees in Real Estate

What can I do with my degree?

BACCALAUREUS SCIENTIAE (REAL ESTATE) [BSc(Real Estate)] (Code 12132016)

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 a 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.

Admission requirements (for candidates with a National Senior Certificate from 2009):

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

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

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

Rating code	Rating	Marks %
7	Outstanding achievement	80-100%

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

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

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.

Specific admission requirements for the School for the Built Environment from 2009

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

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

CONTENTS OF THE COURSE BSC (QUANTITY SURVEYING)

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

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

Total number of credits required: 403

Code	**Module**	**Prerequisites**	**Credits**
FIRST YEAR			
First semester			
BOU 111	Building Drawings 111	-	6
BWT 110	Building Science 110	-	9
CIL 111	Computer Literacy 111	-	4
EOT 110*	Academic Literacy 110	-	6
GBD 112	Building Services 112	-	6
HVH 101	Quantities 101	-	12
SKE 110	Introduction to Structures 110	-	9
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		73
Second semester			
BDO 181	Industrial and Organisational Psychology 181	-	5
BGG 121	Building Organisation 121	-	6
BOU 121	Building Drawings 121	-	6
BWT 120	Building Science 120	BWT 110 GS	9
CIL 121	Information Literacy 121	-	4
EOT 120*	Academic Literacy 120	-	6
GBD 122	Building Services 122	-	6
HVH 101	Quantities 101	-	12

OMG 122	History of the Environment 122	-	6
SKE 120	Structures 120	SKE 110 GS	9
STK 161	Statistics 161	STK 110 GS	6
	Total		75

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

SECOND YEAR
First semester

BWT 210	Building Science 210	BWT 110 GS BWT 120 GS	9
EKN 110	Economics 110	-	10
FRK 111	Financial Accounting 111	-	10
GBD 212	Building Services 212	-	6
HVH 200	Quantities 200	BWT 110 GS BWT 120 GS HVH 101	12
SKE 210	Reinforced Concrete Structures 210	SKE 120 GS	9
TRN 213	Site Surveying 213	-	12
	Total		68

Second semester

BWT 220	Building Science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10
FRK 121	Financial Accounting 121	FRK 111 GS	12
GBD 222	Building Services 222	-	6
HVH 200	Quantities 200	BWT 110 GS BWT 120 GS HVH 101	12
INF 181*	Informatics 181	FRK 111 GS	3
OMG 224	History of the Environment 224	-	6
SKE 220	Civil Engineering Services 220	-	9
	Total		67

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

THIRD YEAR
First semester

BER 310	Business Law 310	-	16
BRK 300	Quantity Surveying Practice 300	HVH 200 GS	9
BWT 310	Building Science 310	-	9
GBD 312	Building Services 312	-	6
HVH 300	Quantities 300	BWT 210 GS BWT 220 GS GBD 112 GS GBD 122 GS HVH 200	12
JCP 201	Community-based Project 201	-	4
KIT 311	Construction Information Technology and Communication 311	-	12
	Total		68

Second semester

BHU 320	Housing 320	-	6
BRK 300	Quantity Surveying Practice 300	HVH 200 GS	9
BWT 320	Building Science 320	-	9
EOW 320	Introduction to Property Law 320	-	6
GBD 322	Building Services 322	GBD 312 GS	6
HVH 300	Quantities 300	BWT 210 GS BWT 220 GS GBD 112 GS GBD 122 GS HVH 200	12
JCP 201	Community-based Project 201	-	4
	Total		52

CONTENTS OF THE COURSE BSC (HONS) (QUANTITY SURVEYING)

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

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

Total number of credits required: 173

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BKR 700	Building Cost Estimation 700	-	12
BRK 700	Quantity Surveying Practice 700	-	9
BTP 700	Management Practice 700	-	12
EOW 710	Property Financial Mathematics 710	-	6
HVH 700	Quantities 700	-	12
	Total		51

Second semester			
BKR 700	Building Cost Estimation 700	-	12
BRK 700	Quantity Surveying Practice 700	-	9
BTP 700	Management Practice 700	-	12
HVH 700	Quantities 700	-	12
	Total		45

SECOND YEAR
First semester

BRK 785	Research Report 785	-	12
EOW 700	Feasibility Studies 700	EOW 710 GS	9
KKR 730	Construction Contract Law 730	-	12
KPB 730	Construction Project Management 730	-	9
	Total		42

Second semester

BRK 785	Research Report 785	-	12
EOW 700	Feasibility Studies 700	EOW 710 GS	9
KKR 740	Construction Contract Law 740	KKR 730 GS	12
POU 720	Practical Development Feasibility 720	-	2
	Total		35

CONTENTS OF THE COURSE BSC (CONSTRUCTION MANAGEMENT)

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

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

Total number of credits required: 423

	Module	**Prerequisites**	**Credits**
FIRST YEAR			
First semester			
BOU 111	Building Drawings 111	-	6
BWT 110	Building Science 110	-	9
CIL 111	Computer Literacy 111	-	4
EOT 110*	Academic Literacy 110	-	6
GBD 112	Building Services 112	-	6
HVH 101	Quantities 101	-	12
SKE 110	Introduction to Structures 110	-	9
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		73

Second semester			
BDO 181	Industrial and Organisational Psychology 181	-	5
BGG 121	Building Organisation 121	-	6
BOU 121	Building Drawings 121	-	6
BWT 120	Building Science 120	BWT 110 GS	9
CIL 121	Information Literacy 121	-	4
EOT 120*	Academic Literacy 120	-	6
GBD 122	Building Services 122	-	6
HVH 101	Quantities 101	-	12
OMG 122	History of the Environment 122	-	6
SKE 120	Structures 120	SKE 110 GS	9
STK 161	Statistics 161	STK 110 GS	6
	Total		75

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

SECOND YEAR
First semester

ABR 311	Labour Law 311	-	20
BWT 210	Building Science 210	BWT 110 GS BWT 120 GS	9
EKN 110	Economics 110	-	10
FRK 111	Financial Accounting 111	-	10
GBD 212	Building Services 212	-	6
KSH 201	Construction Quantities 201	BWT 110 GS BWT 120 GS HVH 101	12
SKE 210	Reinforced Concrete Structures 210	SKE 120 GS	9
TRN 213	Site Surveying 213	-	12
	Total		88

Second semester

BWT 220	Building Science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10
FRK 121	Financial Accounting 121	FRK 111 GS	12
GBD 222	Building Services 222	-	6
INF 181	Informatics 181	FRK 111 GS	3

KSH 201	Construction Quantities 201	BWT 110 GS BWT 120 GS HVH 101	12
OMG 224	History of the Environment 224	-	6
SKE 220	Civil Engineering Services 220	-	9
	Total		67

THIRD YEAR
First semester

BER 310	Business Law 310	-	16
BWT 310	Building Science 310	-	9
GBD 312	Building Services 312	-	6
JCP 201	Community-based Project 201	-	4
KBS 310	Construction Management 310	-	9
KIT 311	Construction Information Technology and Communication 311		12
KSH 300	Construction Quantities 300	BWT 210 GS BWT 220 GS GBD 112 GS GBD 122 GS KSH 201	12
	Total		68

Second semester

BHU 320	Housing 320	-	6
BWT 320	Building Science 320	-	9
EOW 320	Introduction to Property Law 320	-	6
GBD 322	Building Services 322	GBD 312 GS	6
JCP 201	Community-based Project 201	-	4
KBS 320	Construction Management 320	-	9
KSH 300	Construction Quantities 300	BWT 210 GS BWT 220 GS GBD 112 GS GBD 122 GS KSH 201	12
	Total		52

CONTENTS OF THE COURSE BSC (HONS) (CONSTRUCTION MANAGEMENT)

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

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

Total number of credits required: 182

Code	Module	Prerequisites	Credits
First year of study			
First semester			
EOW 710	Property Financial Mathematics 710	-	6
FMT 700	Financial Management 700	-	12
KBS 710	Construction Management 710	-	9
KSH 700	Construction Quantities 700	-	12
	Total		39
Second semester			
FMT 700	Financial Management 700	-	12
KBS 720	Construction Management 720	-	9
KEN 740	Construction Entrepreneurship 740	-	9
KSH 700	Construction Quantities 700	-	12
	Total		42
Second year of study			
First semester			
EOW 700	Feasibility Studies 700	EOW 710 GS	9
FMT 701	Financial Management 701	FMT 700 GS	12
KBS 785	Research Report 785	-	12
KKR 730	Construction Contract Law 730	-	12
KPB 730	Construction Project Management 730	-	9
	Total		54
Second semester			
EOW 700	Feasibility Studies 700	EOW 710 GS	9
FMT 701	Financial Management 701	FMT 700 GS	12
KBS 785	Research Report 785	-	12
KKR 740	Construction Contract Law 740	KKR 730 GS	12
POU 720	Practical Development Feasibility 720	-	2
	Total		47

CONTENTS OF THE COURSE BSC (REAL ESTATE)

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

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

Total number of credits required: 408

Code	Module	Prerequisites	Credits
FIRST YEAR			
First semester			
BOU 111	Building Drawings 111	-	6
BWT 110	Building Science 110	-	9
CIL 111	Computer Literacy 111	-	4
EOT 110*	Academic Literacy 110	-	6
GBD 112	Building Services 112	-	6
HVH 101	Quantities 101	-	12
TPA 110	Site Analysis and Assessment	-	16
STK 110	Statistics 110	Maths 4 (50-59%)	13
WTW 133	Precalculus 133	-	8
	Total		80
Second semester			
BDO 181	Industrial and Organisational Psychology 181	-	5
BGG 121	Building Organisation 121	-	6
BOU 121	Building Drawings 121	-	6
BWT 120	Building Science 120	BWT 110 GS	9
CIL 121	Information Literacy 121	-	4
EOT 120*	Academic Literacy 120	-	6
GBD 122	Building Services 122	-	6
HVH 101	Quantities 101	-	12
OMG 122	History of the Environment 122	-	6
RES 151	Introduction to Research 151	-	6
STK 161	Statistics 161	STK 110 GS	6
	Total		72

* Students who did not pass the academic literacy test must register for EOT 110 and 120 offered by the unit for academic literacy. (See regulation B.5.).

SECOND YEAR			
First semester			
BWT 210	Building Science 210	BWT 110 GS BWT 120 GS	9
EKN 110	Economics 110	-	10
FRK 111	Financial Accounting 111	-	10
GBD 212	Building Services 212	-	6
GMC 110	Cartography 110	-	4
HVH 200	Quantities 200	BWT 110 GS BWT 120 GS HVH 101	12
	Total		51
Second semester			
BWT 220	Building Science 220	-	9
EKN 120	Economics 120	EKN 110 GS	10
FRK 121	Financial Accounting 121	FRK 111 GS	12
GBD 222	Building Services 222	-	6
HVH 200	Quantities 200	BWT 110 GS BWT 120 GS, HVH 101	12
INF 181*	Informatics 181	FRK 111 GS	3
OMG 224	History of the Environment 224	-	6
SKE 220	Civil Engineering Services 220	-	9
TPD 220	Theory of Strategic and Integrated Development Planning 220	-	16
	Total		83

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

THIRD YEAR			
First semester			
BER 310	Business Law 310	-	16
BWT 310	Building Science 310	-	9
GBD 312	Building Services 312	-	6
TRP 310	Institutional and Legal Structures for Planning 310	-	20
JCP 201	Community-based Project 201	-	4
KIT 311	Construction Information Technology and Communication 311		12
	Total		67
Second semester			
BHU 320	Housing 320	-	6
TPS 220	Settlement Establishment and Housing Delivery 220	-	16
BWT 320	Building Science 320	-	9
EOW 320	Introduction to Property Law 320	-	6

GBD 322	Building Services 322	GBD 312 GS	6
TPU 261	Economics of Urban Land Development 261	-	8
JCP 201	Community-based Project 201	-	4
	Total		55

For a description of the subjects please refer to the **yearbook**