Bachelor of Urban Development - Dean's Scholars Program (UD40)

Year offered: 2013
Admissions: Yes
CRICOS code: 056387B
Course duration (full-time): 4 years
Domestic Fees (indicative): 2013: CSP $4,400 (indicative) per Semester (48 credit points)
Notes about costs and scholarships:
What you receive

The Dean's Scholars program provides a pathway to leadership in your chosen field.

Opportunities include:
- company site visits with major industry players
- an annual leadership dinner
- industry and professional association networking events
- access to leadership and professional development opportunities
- registration for senior academic, peer and industry mentoring
- early access to leading research in your field.

You'll also receive up to $6,000 per year for the full-time duration of your undergraduate degree.

You'll be encouraged to participate in an exchange program from your third year of study as part of your scholarship experience.

Conditions

To keep your place in the Dean's Scholars program, you must:
- maintain enrolment full-time in the eligible undergraduate course
- graduate from the: within 4 years of starting, except where you've taken a leave of absence approved by the Assistant Dean, or there are other extenuating circumstances
- maintain a grade point average (GPA) of at least 6.0 each semester
- meet the requirements of program completion (for example work experience and work integrated learning)
- pay any costs associated with your program that aren't covered by the scholarship, including additional and repeated units
- demonstrate adequate participation in extracurricular elements of the program.

You can:
- apply to change your course structure under exceptional circumstances. You must apply through your academic mentor or course coordinator, and receive prior written approval from the Assistant Dean International and Engagement.
- apply for other scholarships and bursaries, including ones associated with travel, as long as you're allowed to under the conditions of the other scholarship and under our Industry sponsored student scholarships policy.

Student Services and Amenities Fee
You'll need to pay the Student Services and Amenities Fee (SSAF) as part of your course costs. More information on the SSAF - http://www.student.qut.edu.au/fees-and-finances/study-costs/fee-schedule/table-i-student-services-and-amenities-fee

Start month: February
Commencement notes: Fixed closing date: The online questionnaire must be submitted by 16 November 2012.
QTAC code: 412032
Past rank cut-off: 1
Past OP cut-off: 99
Cut-off notes: Plus successful questionnaire. Please refer to Entry Requirements.
Deferment allowed: No
Campus: Gardens Point
Attendance: Full-time

Assumed knowledge: Chemistry
Assumed knowledge notes: We assume that you have knowledge equivalent to four semesters at high school level (Years 11 and 12) with sound achievement (4, SA). For information on acquiring assumed knowledge visit http://www.qut.edu.au/assumed-knowledge

Additional Requirements:
2013 questionnaires have closed

Questionnaires for the 2013 intake were due to completed on the 16 November 2012 and are now closed. If you had not submitted the questionnaire and you are considering applying to study in 2014 we recommend you read the following information as a guide only as it details requirements for entry in 2013 and these may change prior to the 2014 intake. You may also wish to consider applying...
for the standard entry program for 2013 entry.

Prerequisites
1. Must be a current Year 12 student or a student returning from a gap year who completed their Year 12 education in Australia.
2. Successful questionnaire

Additional entry requirements
In addition to applying through QTAC and you must also submit the online Science and Engineering Dean's Scholars questionnaire by the closing date.

Please note submitting the questionnaire with QUT is separate and in addition to listing the course as a preference with QTAC. To successfully apply for entry into this course you are required to do both.

Closing date
Submit the online questionnaire with QUT by Friday, 16 November 2012.

Course highlights
- Graduates are sought after by industry as the potential future leaders in the built environment.
- Opportunities for valuable industry exposure, international exchange programs and mentoring.

Details:

About this program
Dean’s Scholars are highly sought after by industry as the potential future leaders in the built environment.

The Dean’s Scholars Program provides an enriched course of study for current Year 12 students (or those returning from a gap year) who obtain a high level of achievement in their studies. The Dean’s Scholars Program is the only scholarship and development program of its kind in Queensland, offering outstanding students a scholarship to complete studies in the built environment, opportunities to access valuable industry exposure, international exchange programs, and mentoring.

The Program is designed for Australian and international students with an OP 1 or 2 (or equivalent) with outstanding academic ability, leadership potential and active involvement in their school and local community.

If you are accepted into the Dean’s Scholars Program, your scholarship will give you a real head start. Opportunities include:

- company site visits with major industry players
- an annual leadership dinner
- industry and professional association networking events
- access to leadership and professional development opportunities
- registration for senior academic, peer and industry mentoring
- early access to leading research in your field.

You'll also receive up to $6,000 per year for the full-time duration of your undergraduate degree.

You'll be encouraged to participate in an exchange program from your third year of study as part of your scholarship experience.

Professional recognition
You will qualify for professional accreditation and employment in the field relevant to the specialisations chosen.

Construction Management major - Students commencing February 2010 onwards

<table>
<thead>
<tr>
<th>Year 1 - Semester 1</th>
<th>Year 1 - Semester 2</th>
<th>Year 2 - Semester 1</th>
<th>Year 2 - Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDB100 Urban Development and Sustainability</td>
<td>UDB200 Project Planning in Urban Development</td>
<td>UDB210 Commercial Construction and Engineering</td>
<td>UDB102 Applied Law</td>
</tr>
<tr>
<td>UDB101 Stewardship of Land</td>
<td>UDB104 Urban Development Economics</td>
<td>UDB211 Introductory Structural Engineering</td>
<td>UDB214 Professional Studies 2</td>
</tr>
<tr>
<td>UDB110 Residential Construction and Engineering</td>
<td>UDB112 Professional Studies 1</td>
<td>UDB212 Measurement 2</td>
<td>UDB215 Building Services Engineering</td>
</tr>
<tr>
<td>UDB111 Engineering Construction Materials</td>
<td>UDB113 Measurement 1</td>
<td>UDB213 Construction Estimating</td>
<td>Minor unit</td>
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</tbody>
</table>
Year 3 - Semester 1
UDB310  Highrise Construction and Engineering
UDB311  Structural Engineering Design
UDB312  Contract Administration
         Minor unit

Year 3 - Semester 2
UDB202  Business Skills
UDB314  Statutory Construction Law
UDB420  Project Administration
         Minor unit

Year 4 - Semester 1
BEB701  Work Integrated Learning 1
UDB301  Research Methods
UDB313  Programming and Scheduling
         Minor unit

Year 4 - Semester 2
BEB801  Project 1
UDB302  Development Process
UDB316  Cost Planning and Control
UDB410  Strategic Construction Management

Property Economics major - Students commencing February 2010 onwards

Year 1 - Semester 1
UDB100  Urban Development and Sustainability
UDB101  Stewardship of Land
UDB110  Residential Construction and Engineering
UDB140  Property Valuation 1

Year 1 - Semester 2
UDB200  Project Planning in Urban Development
UDB102  Applied Law
UDB104  Urban Development Economics
UDB141  Building Studies

Year 2 - Semester 1
UDB240  Planning Theory and Processes
UDB241  Property Law 1
UDB242  Property Valuation 2
UDB243  Property Economics

Year 2 - Semester 2
UDB244  Property Law 2
UDB245  Urban Land Studies
UDB246  Property Feasibility Studies
UDB247  Property Valuation 3

Year 3 - Semester 1
UDB301  Research Methods
UDB341  Property Finance
         Second Major/Minor unit
         Second Major/Minor unit

Year 3 - Semester 2
UDB302  Development Process
UDB344  Property and Asset Management
         Second Major/Minor unit
         Second Major/Minor unit

Year 4 - Semester 1
UDB340  Agency Practice and Marketing
UDB342  Real Estate Accounting and Taxation
         Second Major/Minor unit
         Second Major/Minor unit

Year 4 - Semester 2
BEB701  Work Integrated Learning 1
UDB202  Business Skills
         Second Major/Minor unit
         Second Major/Minor unit

Quantity Surveying major - Students commencing February 2010 onwards

Year 1 - Semester 1
UDB100  Urban Development and Sustainability
UDB101  Stewardship of Land
UDB110  Residential Construction and Engineering
UDB111  Engineering Construction Materials

Year 2 - Semester 1
UDB200  Project Planning in Urban Development
UDB104  Urban Development Economics
UDB112  Professional Studies 1
UDB113  Measurement 1
### Year 1 - Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>UDB104</td>
<td>Urban Development Economics</td>
</tr>
<tr>
<td>UDB163</td>
<td>Land Use Planning</td>
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<tr>
<td>UDB164</td>
<td>Population and Urban Studies</td>
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<tr>
<td>UDB200</td>
<td>Project Planning in Urban Development</td>
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### Year 2 - Semester 1

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<tr>
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<tbody>
<tr>
<td>UDB102</td>
<td>Applied Law</td>
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<tr>
<td>UDB202</td>
<td>Business Skills</td>
</tr>
<tr>
<td>UDB215</td>
<td>Building Services Engineering</td>
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<tr>
<td>UDB216</td>
<td>The Environment and the Quantity Surveyor</td>
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### Year 2 - Semester 2

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<td>UDB312</td>
<td>Contract Administration</td>
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<tr>
<td>UDB315</td>
<td>Measurement 3</td>
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<tr>
<td>UDB314</td>
<td>Statutory Construction Law</td>
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<tr>
<td>UDB316</td>
<td>Cost Planning and Control</td>
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### Year 3 - Semester 2

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>UDB368</td>
<td>Urban Design</td>
</tr>
<tr>
<td>UDB369</td>
<td>Negotiation and Conflict Resolution</td>
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<tr>
<td>UDB381</td>
<td>Geospatial Mapping</td>
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### Year 4 - Semester 1

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BEB701</td>
<td>Work Integrated Learning 1</td>
</tr>
<tr>
<td>UDB301</td>
<td>Research Methods</td>
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</tbody>
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### Year 4 - Semester 2

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BEB801</td>
<td>Project 1</td>
</tr>
<tr>
<td>UDB302</td>
<td>Development Process</td>
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</tbody>
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### Potential Careers:

Construction Manager, Contract Administrator, Estimator, Manager, Project Developer, Project Manager, Property
Development, Property Economist, Property Management, Quantity Surveyor, Real Estate, Spatial Information Officer, Surveyor, Urban and Regional Planner, Urban Designer.

UNIT SYNOPTES

BEB701 WORK INTEGRATED LEARNING 1
This unit aims to provide you with the opportunity to learn in a workplace environment. It will involve attendance, participation, observation, critical reflection, and report writing on workplace activities. The emphasis of your critical reflection and report writing will be on identifying and describing aspects of professional relevance incorporating: collaboration and teamwork; work place, health and safety; professional conduct; ethical responsibility, and other aspects of your workplace experience. This unit may form part of your (compulsory) course core (as required by professional accrediting bodies e.g. Engineers Australia, Australian Institute of Building, Royal Institution of Chartered Surveyors), or it may be one of several work integrated learning (WIL) units (selected as part of a Minor).
Assumed knowledge: This unit is not designed for first year students. It is recommended that you check WIL Community Blackboard site for information on enrolment pattern. If you are EN40 student you can only enrol after completing a minimum of 192 cp. Credit points: 12
Campus: Gardens Point Teaching period: 2013 SEM-1, 2013 SEM-2 and 2013 SUM

BEB801 PROJECT 1
This unit is usually taken in the final year of study. Students complete an individual project involving the application of skills and knowledge attained during the earlier years of their degree program. For some students, this unit will be taken one of two 'project' units related to the same student project; in such cases this unit may be a pre-requisite or co-requisite to the second unit (or a follow-on from the first unit). The final 'deliverable' for this unit may vary for each discipline and details will be provided in lectures/tutorials and on the Blackboard website.
Equivalents: CEB411, CEB420, CNB434, EEB781-1, EEB889-1 Credit points: 12 Contact hours: 2 per week Campus: Gardens Point Teaching period: 2013 SEM-1 and 2013 SEM-2

BEB802 PROJECT 2
This unit is usually taken in the final year of study, and is only taken by students completing a two unit project. Students complete an individual project involving the application of skills and knowledge attained during the earlier years of their degree program. This unit will be taken as the second of two 'project' units related to the same student project.

Equivalents: CEB415, EEB782-2, EEB889-2 Credit points: 12 Contact hours: 2 per week Campus: Gardens Point Teaching period: 2013 SEM-1 and 2013 SEM-2

UBD100 URBAN DEVELOPMENT AND SUSTAINABILITY
This unit introduces you to the essential professional skills and practises common to the fields and disciplines of urban development.

Through this unit you will have an opportunity to develop and demonstrate professional knowledge in your specialized area while also developing foundation academic and university skills that you will use to enhance and support your further studies. Concepts relating to professional practice, ethics, information management and sustainability will be addressed throughout the unit. Information from this unit will be consolidated in UDB200.
Equivalents: DEB100, ENB100 Credit points: 12
Contact hours: 3 per week Campus: Gardens Point Teaching period: 2013 SEM-1

UBD101 STEWARDSHIP OF LAND
This interdisciplinary unit will introduce students to the characteristics of land and land tenure with a focus on land use and property rights. The particular issues of native title, land contamination, heritage and alternative utility will be covered. Thereafter the property development process will be described in general terms and emphasis placed on the impact of environmental and social factors on the financial evaluation. The final component will cover the management of land, both urban and regional. Case studies will demonstrate the part that each discipline plays in the stewardship of land and its development.
Equivalents: CNB105 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2013 SEM-1

UBD102 APPLIED LAW
Introduces the fundamental principles and practices of Australian governance as they affect the built environment. The relevance of government policies, laws and regulations and aspects of Tort, Contract and Land and Environmental laws applicable to the Development and Construction processes are examined in context.
Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2013 SEM-2

UBD104 URBAN DEVELOPMENT ECONOMICS
This unit will introduce microeconomics and macroeconomics concepts applied to urban and regional development. The unit will initially focus on demand, supply and determination of prices, and other important microeconomic concepts, at the level of an individual development. Here, the value of microeconomics in explaining aspects of development is...
demonstrated using local and national examples. In doing so, this unit will also help to deepen the appreciation of the key steps in development and the role of the main actors. Since anyone development project does not occur in a vacuum, the unit will then broaden to consider the impact of changes in the national and local economy on land use and development, including business cycle, monetary and fiscal policy.

**Equivalents:** BSB113, BSD113  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-2

### UDB110 RESIDENTIAL CONSTRUCTION AND ENGINEERING

You learn to read plans and build a house by studying construction theory and legislation, visiting building sites, and sketching construction details. Focus on the four traditional methods of construction, brick veneer, cavity brick, block and timber, evolution of building, Building Code of Australia and Australian Standards; methods of construction; foundation and footings; linings; claddings; windows; doors; joinery; staircases; roof coverings; balanced cut and fill; services; retaining walls; acoustic and fire safety requirements; specifications for residential construction; protection to the public during construction; temporary support and demolition of structures; energy efficiency design; building defects and failures.

**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-1

### UDB111 ENGINEERING CONSTRUCTION MATERIALS

The choice of material and the reliance on the material being “fit for purpose” is essential to the success of the building project. This unit provides you with an introduction to building materials. We will cover the structural and non structural materials used in the construction process and focus on the basic properties, construction applications, behaviour, strength, durability, suitability, and limitations.

**Equivalents:** CNB102  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-1

### UDB112 PROFESSIONAL STUDIES 1

Assignment-based project orientated group work where you design and document a new dwelling preparing a full design of a single level brick-veneer type dwelling to a standard appropriate for building approval including architectural and structural design; construction materials; building services; statutory obligations and the building approval process; measuring and cost planning; contract administration; construction planning and site layout.

**Prerequisites:** UDB110  
**Equivalents:** CNB109  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-2

### UDB113 MEASUREMENT 1

This unit introduces the scope of the role of the quantity surveyor working independently and for contractors. It examines the tendering process and the bill of quantities; the Australian standard method of measurement (rules, taking-off methodology, mensuration and formulae); measurement of various work sections (finishes, roofing, partitions, woodworking, metalwork, painting, doors, windows, glazing, hardware, suspended ceilings and masonry).

**Prerequisites:** UDB110  
**Equivalents:** CNB110  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-2

### UDB140 PROPERTY VALUATION 1

This unit provides an introduction to property valuation fundamentals including value principles and concepts, market data and the methods of valuation, with particular focus on the valuation of residential property.

**Equivalents:** CNB194  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-1 and 2013 SEM-2

### UDB141 BUILDING STUDIES

You learn to read plans and build a house by studying construction theory and legislation, visiting building sites, and sketching construction details. Focus on the four traditional methods of construction, brick veneer, cavity brick, block and timber, evolution of building, Building Code of Australia and Australian Standards; methods of construction; foundation and footings; linings; claddings; windows; doors; joinery; staircases; roof coverings; balanced cut and fill; services; retaining walls; acoustic and fire safety requirements; specifications for residential construction; protection to the public during construction; temporary support and demolition of structures; energy efficiency design; building defects and failures.

**Prerequisites:** UDB110  
**Antirequisites:** UD40MJR-CONSMGT- Construction Management Major, UD40MJR-QUANSRV - Quantity Surveying Major  
**Equivalents:** CNB290  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-2

### UDB161 INTRODUCTION TO PLANNING AND DESIGN

This unit introduces students to basic principles of planning and urban design. Students learn about urban design principles such as legibility, permeability, robustness and imageability of places. Students also investigate the planning issues facing cities and consider the complex problem-solving skills required to respond to these.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2013 SEM-1

### UDB162 HISTORY OF BUILT ENVIRONMENT
This unit uses examples from the global development of human settlement to demonstrate the importance of interactions between the environment, society, and technology in shaping the built environment. Students will gain an appreciation of the important role played by history in forming the context for contemporary society, policy making, and design.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

### UDB163 LAND USE PLANNING

The purpose of this unit is to examine the planning and management of public and private land. Unit topics include: different performance and prescriptive zoning methods; an overview of levels of planning agencies responsible for land use planning in Queensland; and the land development process and regulations that govern land use planning.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

### UDB164 POPULATION AND URBAN STUDIES

This unit introduces the students to the demographic, economic, social and physical aspects of our cities to help understand the nature of cities we live in. The topics covered include: demographic and economic changes in cities, theoretical models of cities, issues such as social diversity, gentrification, masterplanned communities, and public spaces in cities.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

### UDB200 PROJECT PLANNING IN URBAN DEVELOPMENT

This unit will enable you as a graduating Built Environment and Engineering professional to take active and positive steps to transform professional practice in ways that promote the sustainability of our planet, our economy and our society. As future professionals in the fields of Design, Urban Development and Engineering Systems, you will need to understand and apply the concepts of sustainability in your professional practice if we are to achieve sustainable development in the 21st Century.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

### UDB202 BUSINESS SKILLS

This unit focuses on career preparation with a business orientation. Current popular business tools are assembled and critiqued. A sequential approach is used starting with characteristics of the Resume, business protocol and ethics, the business plan, assessing business risk and Professional Liability.

**Equivalents:** CNB228  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

### UDB210 COMMERCIAL CONSTRUCTION AND ENGINEERING

The aim of this unit is to provide you with extensive theoretical knowledge to manage and supervise the construction of (1) low rise residential apartment buildings (2) commercial buildings i.e. shops, offices; and (3) industrial buildings. Focus on legislative requirements; on-site inspections; site management techniques; temporary works & construction plant requirements, labour; In-ground construction; External treatments (cladding); formwork; bracing and stability; services co-ordination; Landscaping; Environmental, building defects; disabled access; universal design; load-bearing masonry; services co-ordination; internal fit-out; tilt panel construction; portal/steel frames.

**Prerequisites:** UDB110  **Equivalents:** CNB107  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

### UDB211 INTRODUCTORY STRUCTURAL ENGINEERING

Structural engineering analysis examining structural principles, structural action, load paths and equilibrium. Structural characteristics are examined through first principles including tension, compression, bending and shear forces. Quantitative, qualitative techniques and approximate methods are used as well as the use of computer software in structural analysis.

**Prerequisites:** UDB111  **(can be enrolled in the same teaching period)**  **Equivalents:** CNB108  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

### UDB212 MEASUREMENT 2

Measurement is a core skill among building professionals. This skill is particularly important in relation to the production of quantified documents for the purposes of tendering and estimating. This unit covers the following: measurement of various work sections (concrete, formwork, bracing and stability; services co-ordination; Landscaping; Environment, building defects, disabled access; universal design; load-bearing masonry; services co-ordination; internal fit-out; tilt panel construction; portal/steel frames).

**Prerequisites:** UDB113  **Equivalents:** CNB204  **Credit points:** 12  **Contact hours:** 5 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

### UDB213 CONSTRUCTION ESTIMATING

Estimating techniques to quantify cost; Fundamental elements of cost and methods of evaluating labour, materials and equipment to realistic levels of accuracy; Unit rate approach to assessing the base estimate for major trades; Assessment of offers from sub-contractors and implications for tendering with respect to risk, quality and ethical responsibilities; Functional estimating and the significance of method, time and assembly of information to estimating; Review of an estimate, determination of profit;
letters of offer; Subsequent negotiations prior to award of a contract; application of estimating to variations and profit monitoring; Linking best value procurement assessment to outcome performance indicators (including tender evaluation criteria).

**Prerequisites:** UDB110, UDB113 **Equivalents:** CNB305

**Credit points:** 12 **Contact hours:** 3 per week

**Campus:** Gardens Point **Teaching period:** 2013 SEM-1

### UDB214 PROFESSIONAL STUDIES 2

Assignment-based project orientated group work where you design and document a commercial development from a project management perspective considering constructability drawing on your skills in estimating; planning; scheduling; site organisation; environmental planning & sustainable urban development. Focus on special construction techniques; reuse of buildings and building materials; durability of materials, minimisation and disposal of construction waste; construction practice; planning and use of appropriate forms of construction for various building sizes and types; community negotiations; statutory responsibilities including access for people with a disability.

**Prerequisites:** UDB112 or BEB200 or ENB200

**Assumed knowledge:** UDB210 is assumed knowledge.

**Equivalents:** ENB274 **Credit points:** 12 **Contact hours:** 3 per week

**Campus:** Gardens Point **Teaching period:** 2013 SEM-2

### UDB215 BUILDING SERVICES ENGINEERING

Fire Services: Fire detection, suppression and extinguishment; statutory requirements for maintenance of essential active fire services; Hydraulics Services: Building hydraulic services including water supply, fire protection and sanitary waste disposal systems. Mechanical Services: Air movement; Types of ventilation; Air-conditioning systems and heating; Installation procedures and the issue of confined spaces; Basis of design and effect of architectural style; Electrical Services: Transformers, sub-stations, switchboards, protection devices, lighting systems, stand-by generators, security systems; systems monitoring and energy management; vertical transportation systems. Energy Efficient Services: Examination of energy efficient design on services.

**Equivalents:** CNB203 **Credit points:** 12 **Contact hours:** 5 per week

**Campus:** Gardens Point **Teaching period:** 2013SEM-2

### UDB216 THE ENVIRONMENT AND THE QUANTITY SURVEYOR

This unit will involve professional quantity surveying including image and status, fees, codes of ethics, professional competence and continuing professional development. In terms of employment, professional engagement in the workplace will be covered including terms of engagement, professional indemnity insurance, quality assurance and financial asset management. The work of quantity surveying takes place within a social and environmental context and this relates to the interactions between business and environmental interests including the natural environment, environment economics and ecologically sustainable development.

**Prerequisites:** UDB140 **Equivalents:** CNB292

**Credit points:** 12 **Contact hours:** 3 per week

**Campus:** Gardens Point **Teaching period:** 2013 SEM-1

### UDB240 PLANNING THEORY AND PROCESSES

This unit is an introduction to the fundamental principles of urban planning control and regulation in Queensland. Property economists need to be aware of the history, development and current impact of planning regulation on property development and investment. This unit covers current development planning approval, assessments, conditions and appeals processes. Integration of economics, equity and social responsibility which include conservation and heritage protection and its impact on development and land are also discussed.

**Antirequisites:** UDB401,BEB219 **Credit points:** 12

**Campus:** Gardens Point **Teaching period:** 2013 SEM-1

### UDB241 PROPERTY LAW 1

A practicing property professional requires an understanding of real property law in order to optimise the utility of property assets and therefore the value of property assets. This unit covers aspects of real property law which impact on professional property practice in Queensland.

**Assumed knowledge:** UDB102 is assumed knowledge.

**Equivalents:** CNB191 **Credit points:** 12

**Campus:** Gardens Point **Teaching period:** 2013 SEM-1

### UDB242 PROPERTY VALUATION 2

An understanding of valuation methodologies relating to commercial property assessment is central to the work of any property professional. This unit develops an understanding of the various methodologies and the application of these valuation methodologies to practical scenarios. This unit also further develops an understanding of the various market sectors and how the market impacts on the value of a property asset.

**Prerequisites:** UDB140 **Equivalents:** CNB292

**Credit points:** 12

**Campus:** Gardens Point **Teaching period:** 2013 SEM-1

### UDB243 PROPERTY ECONOMICS

The unit will relate macro and micro economics to the broad property markets. It will consider the practical impact of supply and demand factors on the different market sectors.
The nature and complexities of property cycles are covered with specific reference to commercial and industrial property in Australia.  

**UDB244 PROPERTY LAW 2**  
A practicing property professional needs a good understanding of several areas of law as it applies to property transactions and property practice to be able to manage and avoid risk, identify legal issues as they arise and identify when specialised legal counsel is necessary. This unit focuses on extending and applying the theoretical knowledge obtained in UDB102 and UDB241 to explore how the common law and relevant legislation is applied to property practice and property transactions. The unit covers areas of torts law, contract, agency, consumer protection and dispute resolution as applicable to a practicing property professional in Queensland.  
Assumed knowledge: UDB102 is assumed knowledge.  
Equivalents: CNB193  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2

**UDB245 URBAN LAND STUDIES**  
The aim of the unit is to take the students' fundamental knowledge of economic theory developed in earlier units and to apply that knowledge to the specific area of urban development. In particular we seek to develop in students an awareness of those economic imperatives which drive and shape urban form.  
Prerequisites: UDB243  
Equivalents: CNB291  
Credit points: 12  
Contact hours: 4 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2

**UDB246 PROPERTY FEASIBILITY STUDIES**  
Property economists play an important role in advising on the investment worth of property. As such the unit introduces students to assessment of property as an investment asset taking into account financing and taxation arrangements in addition to risk and return measures.  
Prerequisites: UDB242  
Equivalents: CNB392  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2

**UDB247 PROPERTY VALUATION 3**  
It is part of the role of a Property Valuer to perform valuations for statutory purposes and to represent those valuations in the capacity of an expert witness. It is imperative that you have the necessary knowledge to undertake statutory valuations and have an understanding of the role of a Valuer as an expert witness. This unit will enhance the knowledge and skills you have developed in prior valuation units and apply this in the statutory and special use property valuation contexts.  
Prerequisites: UDB241 and UDB242  
Equivalents: CNB391  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2

**UDB265 SITE PLANNING**  
The objective of this unit to assist students in learning and applying site planning theories and processes for a given site/areas within a city. The topics covered include: user stakeholder analysis, character analysis, site survey and site analysis, development of proposals.  
Prerequisites: UDB161  
Equivalents: PSB431  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-1

**UDB266 PLANNING PROCESSES AND CONSULTATIONS**  
Students learn how land uses are generated and can be planned. They study the logic, role and methods of successive stages of planning processes including aims, information analysis and synthesis, evaluation, strategy development, monitoring and review. They learn how to consult widely in the community and with other professionals to develop and apply flexible and widely relevant planning processes.  
Prerequisites: (UDB163 and UDB164) or ENB274 or DE40MJR-LNDARCH - Landscape Architecture Major  
Equivalents: PSB433  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-1

**UDB267 DEVELOPMENT ASSESSMENT AND INFRASTRUCTURE**  
The aim of this unit is to provide students with a grounding in the issues and skills related to the assessment of development applications and planning related to infrastructure. The unit will be conducted in two sections. The first will introduce students to the relevant legislation, procedures, and techniques associated with development assessment. The second will give students an understanding of issues related to the provision and maintenance of technical and social infrastructure, with particular reference to the importance of sustainability and the emergence of new technology and systems.  
Prerequisites: UDB163 or DE40MJR-LANDARC - Landscape Architecture Major  
Equivalents: PSB445  
Credit points: 12  
Contact hours: 3 per week  
Campus: Gardens Point  
Teaching period: 2013 SEM-2

**UDB281 GEOGRAPHIC INFORMATION SYSTEMS**  
This unit investigates the basic concepts of geographic information systems. Topics to be covered include components of GIS, spatial databases, data acquisition, reference frameworks, use of photographs and images, spatial analysis and graphic output design issues. The unit
will highlight the importance of geographic information systems the unit will highlight the importance of geospatial positioning applications in society.

**Equivalents:** PSB631  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB301 RESEARCH METHODS**

Research Methods will introduce students to the range of methods and techniques that may be utilised in examining questions related to professional practice. A comprehensive overview of research methods will be provided in order that students are able to contribute to research as a part of their professional practice, and to enable them to critically analyse research findings and publications.

**Prerequisites:** Completion of 216cp in UDB units

**Equivalents:** CNB395  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB302 DEVELOPMENT PROCESS**

This unit brings together concepts gained on strategic evaluation, risk, time management, organisational behaviour, planning, construction and development feasibility analysis. It places this knowledge in a total project context and provides you with an understanding of the processes involved in property development from conception to completion and beyond.

**Credit points:** 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

**UDB310 HIGHRISE CONSTRUCTION AND ENGINEERING**

Students learn how to construct a high rise structure from the basement to the roof. Focus on protection to the public during construction, temporary support; demolition; temporary services; deep excavation and foundations; retention and shoring systems; structural components; multilevel formwork; interaction of building components, systems and services; common building faults and failures and rectification; alternative forms of external cladding; waterproofing problems.

**Prerequisites:** UDB210  Equivalents: CNB201  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB311 STRUCTURAL ENGINEERING DESIGN**

Study and analysis of engineering components and systems, to develop a sound understanding of how a building achieves structural stability and equilibrium through its load paths. Content includes: Basic structural member design for tension, compression, bending and shear loads through detailed examination through the use of relevant Australian Standards as the basis for examination. Emphasis is on approximate or “first order of magnitude” techniques suitable for estimating or checking purposes. Structural systems analysis; including trusses and retaining walls with a mix of qualitative and quantitative techniques. Construction stability is examined in detail including cranes, shoring, scaffolding, and slings.

**Prerequisites:** UDB111 and UDB211  Equivalents:** CNB202  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB312 CONTRACT ADMINISTRATION**

The administration of construction contracts represents one of the core applications for both construction managers and quantity surveyors. In order to appreciate some of the commercial implications of contract administration you will study administrative implications for both parties to the contract.

**Equivalents:** CNB302  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB313 PROGRAMMING AND SCHEDULING**

This unit covers the following: Project time and resource planning techniques such as bar charts, critical path networks (precedence, time scales, and activity on arrows); Line of balance; Resource allocation and levelling; Schedule updates and progress control; Delays and claims analysis. Applications of computer-based project planning software will form an important part of the study in this unit.

**Equivalents:** CNB335  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

**UDB314 STATUTORY CONSTRUCTION LAW**

Commercial Law. Sale of goods; Hire purchase; Trade practices; Negotiable instruments; Insurance law; Partnership law and company law; Bankruptcy and liquidation; Arbitration (the agreement, appointment of an arbitrator; Conduct of an arbitrator; Powers and duties; Enforcement of an award, costs; Alternative dispute resolution. Building Law; Study of the Building Code of Australia and Building Regulations, which control the design, construction of building works; emphasis on all building law; a study of the Acts Interpretation Act, Town Planning Acts; etc.

**Prerequisites:** UDB110, UDB210, UDB310, and UDB215  Equivalents:** CNB309  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

**UDB315 MEASUREMENT 3**

Measurement is a core skill among building professionals. This skill is particularly important in relation to the production of quantified documents for the purposes of tendering and estimating. This unit covers measurement of building services (hydraulics, drainage, electrical and
mechanical works).

**Prerequisites:** UDB212  **Equivalents:** CNB310  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB316 COST PLANNING AND CONTROL**

Interrelationship between construction industry and economy; Fundamental principles of cost management (design and construction cost planning and cost control); Nature and purpose of cost planning and cost control systems; Contract costing (historical accounting) and anticipatory (forecast final cost / value); Design economics, cost and value concepts, cost information systems, cost modelling, cost analyses, cost indices, cost data, cost implications of design variables; Life cycle costing and modelling including design knowledge in virtual environments; Value management, including energy efficiency in buildings, and value alignment process for project delivery; Asset management and building maintenance; Risk management in cost planning and cost control.

**Equivalents:** CNB307  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

**UDB340 AGENCY PRACTICE AND MARKETING**

Property sales and leasing are the starting point of any property development, property investment and is also the basis of all valuation analysis. This unit provides students with an understanding of the role of real estate agents in respect to property sales and lease negotiation and demonstrates the relevance and interaction of units such as property valuation, property law and planning in property sales and leasing.

**Assumed knowledge:** UDB241 and UDB244 are assumed knowledge.  **Equivalents:** CNB294  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB341 PROPERTY FINANCE**

Property is a major asset class of available investment options. Due to its distinct characteristics, debt and equity financing plays a major role in investment decisions. As such, the unit develops students' understanding of property investment and financing techniques and the place of property assets within the capital markets.

**Prerequisites:** UDB242  **Assumed knowledge:** UDB246 is assumed knowledge  **Equivalents:** CNB297  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB342 REAL ESTATE ACCOUNTING AND TAXATION**

This unit provides the opportunity for students to develop basic financial accounting, cost and management accounting and financial management skills, all within the context of the property industry. In addition, students will learn principles involved in accounting for Real Estate Trust Accounts, and various taxation aspects related to property transactions.

**Antirequisites:** BSB110  **Equivalents:** CNB293  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB344 PROPERTY AND ASSET MANAGEMENT**

With an increasing number of companies and institutions now leasing property rather than direct ownership, the management of these assets is becoming a crucial aspect of business practice. This unit will cover the physical and financial aspects of commercial, retail and industrial property management and the role of property as a strategic real estate asset. The area of Corporate Real estate and Asset management will also be covered in the unit.

**Prerequisites:** UDB242  **Assumed knowledge:** UDB244 is assumed knowledge.  **Equivalents:** CNB393  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-2

**UDB368 URBAN DESIGN**

This studio unit develops skills in urban design analysis and intervention through the transformation of urban design theory into policies and design proposals. Students are introduced to the production of urban design instruments (such as strategies and frameworks) and effective communication of desired urban design outcomes. Where possible, students participate in live projects, with inputs from industry, government and communities.

**Prerequisites:** UDB265  **Assumed knowledge:** Basic skills in WLMM, Illustrator, SketchUp, Site Analysis is assumed knowledge  **Equivalents:** PSB451  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB369 NEGOTIATION AND CONFLICT RESOLUTION**

This unit introduces planning students to the theory and practice of negotiation and conflict resolution. The aim is that students will develop their ability to change their perspective on conflict by seeing it as an inevitable and sometimes valuable part of planning. Students will learn to develop empathy for those they are in conflict with while also communicating their own needs assertively. Content includes key principles of conflict resolution, and practical mediation/negotiation techniques.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2013 SEM-1

**UDB370 ENVIRONMENTAL PLANNING AND MANAGEMENT**

This unit introduces environmental planning and management issues, policies, and methods relevant to your future practice as a planner, engineer, designer, or other
built environment professional. As part of a multi-disciplinary team, you will participate in investigation of a contemporary case study, engaging in creative problem-solving and synthetic thinking incorporating skills and knowledge from prior units framed within new perspectives. By the end of the unit, you will have a firm grasp on a range of current environmental planning and management issues, and a framework for assimilating and addressing environmental policy in your future practice.

Prerequisites: UDB266  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

UDB381 GEOSPATIAL MAPPING
This unit will provide the student with a sound knowledge and understanding of image mapping principles (including photogrammetry) and processes as well as practical skills and understanding required to collect spatial information and to produce fundamental mapping products. In addition this unit will provide the skills and knowledge of the principles and characteristics of cartographic communication, surface modelling techniques and digital mapping.

Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

UDB410 STRATEGIC CONSTRUCTION MANAGEMENT
UDB410 is a capstone construction management unit bringing together all the skills you have learnt so far in your UD40 construction management course. Construction Managers require a strategic focus on site management, business and corporate responsibilities to manage time, cost, quality and safety on a construction project. UDB410 Construction Management is the last of a series of construction units UDB110, UDB210, UDB310 and consolidates skills students have learned throughout their degree to advance to a work-ready construction manager.

Prerequisites: UDB310 or Admission into BN85 or Admission into UDBXSMJ-CONSMGT  Equivalents: CNB336  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

UDB420 PROJECT ADMINISTRATION
This unit provides an introduction into project administration in the building construction industry. It will prepare you for the administrative and contractual interactions that occur between the Contractors and Sub-contractors during a project.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

UDB471 URBAN PLANNING PRACTICE
Students develop skills of interpretation and problem solving to plan the development of a locality or suburb with a population of up to fifteen thousand. Consulting with local governments, communities and stakeholders, and working in supervised multi-disciplinary teams, they produce a real-world local area plans, integrating a wide range of housing, access, work, play, community, cultural and environmental concerns.

Prerequisites: UDB266  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

UDB472 COMMUNITY PLANNING
Students gain information on the many issues involved in community planning, including affordable housing, environmental quality and design, employment, human services, community access and culture. Combining this with knowledge and skills acquired earlier in the course, they learn to produce solutions and formulate policies which link government policy to local outcomes. This involves community involvement, consultation and conflict resolution.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

UDB473 PLANNING THEORY AND ETHICS
The application of theory to practice defines the essence of planning. The unit explores the historical and contemporary theories of planning; links the relationship of theory to practice; defines the role of ethics in planning practice; and aids the student in developing his or her own theoretical and ethical foundation for planning practice.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-1

UDB474 REGIONAL PLANNING PRACTICE
Students develop and apply the knowledge of policy formulation and skills of analysis and synthesis imparted in Regional and Metropolitan Policy, to real world problem-solving at a scale which is larger than a single local government. This culminating practice unit concentrates on the broader regional and metropolitan scales to develop skills in strategic-level planning.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2

UDB475 REGIONAL AND METROPOLITAN POLICY
Students learn to focus and apply material from a wide range of disciplines and locations to understand and develop current regional and metropolitan policy. Issues of global, national and state regionalism, demography, economics, human services, central place theory, regional resource evaluation and public administration are related to work in the Regional Planning Practice unit.

Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2013 SEM-2