Urban Development and Construction

Year offered: 2011
Admissions: Yes

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If your course rules allow, you may be able to choose to study a minor from another area of the University. Minors are sets of related units in a particular study area.

The introductory units in each minor have no prerequisites. Later units may have earlier units as prerequisites. Depending on class timetabling it may not be possible to complete all units in a University Wide Minor. Consult with your course coordinator and relevant discipline coordinators prior to undertaking interfaculty studies.

The units you complete in a University Wide Minor will appear on your academic transcript but the successful completion of a minor will only be shown if it exists as an option in your course.

Building Economics unit set

UDB216 The Environment and the Quantity Surveyor
UDB316 Cost Planning and Control
  Plus 1 from:
  UDB110 Residential Construction and Engineering
  UDB210 Commercial Construction and Engineering
  Plus 1 from:
  UDB113 Measurement 1
  UDB104 Urban Development Economics

Legal Administration in Construction unit set

UDB102 Applied Law
UDB312 Contract Administration
  Plus 1 from:
  UDB216 The Environment and the Quantity Surveyor
UDB101 Stewardship of Land
  Plus 1 from:
  UDB314 Statutory Construction Law
  UDB202 Business Skills

Property Economics Valuation unit set

UDB140 Property Valuation 1
UDB241 Property Law 1
UDB242 Property Valuation 2
UDB247 Property Valuation 3

Property Economics Investment unit set

UDB140 Property Valuation 1
UDB242 Property Valuation 2
UDB246 Property Feasibility Studies
  plus 1 of:
  UDB341 Property Finance
  UDB344 Property and Asset Management

Property Economics Development unit set

UDB140 Property Valuation 1
UDB240 Planning Theory and Processes
UDB302 Development Process
  plus 1 of:
  UDB242 Property Valuation 2
  UDB246 Property Feasibility Studies
  UDB341 Property Finance

Residential Construction unit set

4 units from:
  UDB110 Residential Construction and Engineering
  UDB111 Engineering Construction Materials
  UDB112 Professional Studies 1
  UDB113 Measurement 1
  UDB213 Construction Estimating
  UDB214 Professional Studies 2

Project Collaboration unit set

4 units from:
  UDB313 Programming and Scheduling
  BEB110 Organising and Managing Project Team
  BEB111 Managing Project Quality
  BEB112 Principle of Project Management
  BEB113 Managing Project Cost
  BEB114 Project Financing
Spatial Science Studies unit set

4 units from:
- UDB181 Geospatial Positioning and GPS
- UDB182 Surveying
- UDB281 Geographic Information Systems
- UDB282 Remote Sensing
- UDB381 Geospatial Mapping
- UDB387 Spatial and Land Information Management
- UDB388 Spatial Analysis Practice

Urban and Regional Planning Studies unit set

4 units from (at least 2 advanced-level units must be chosen):
Introductory Units:
- UDB101 Stewardship of Land
- UDB161 Introduction to Planning and Design
- UDB162 History of Built Environment
- UDB163 Land Use Planning
- UDB164 Population and Urban Studies
Advanced Units:
- UDB266 Planning Processes and Consultations
- UDB267 Development Assessment and Infrastructure
- UDB368 Urban Design
- UDB471 Urban Planning Practice
- UDB473 Planning Theory and Ethics
- UDB475 Regional and Metropolitan Policy

UNIT SYNOPSES

BEB110 ORGANISING AND MANAGING PROJECT TEAM
Project managers face the challenges of operating in a project environment characterized by high levels of uncertainty, cross-cultural teams, and global competition for competent human resources. These challenges can be met by developing a clear understanding of human factors in project management and by effective use of the human resource management skills that are required to inspire project stakeholders to work together in order to meet project objectives. This unit introduces the management of human resources in project, from planning, acquiring, developing and managing project team.
Credit points: 12  Campus: Gardens Point  Teaching period: 2011 SEM-1

BEB111 MANAGING PROJECT QUALITY
This unit is one of four within the BEE minor in Project Collaboration and is designed to provide you with appropriate knowledge and skills needed for your involvement in delivering projects in professional organisations in the public and private sectors, by ensuring that the achieved project quality outcomes accord with client requirements and satisfy customer expectations.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

BEB112 PRINCIPLE OF PROJECT MANAGEMENT
Project Management is the overall planning, control and coordination of a project, from inception to completion, aimed at meeting a client’s requirements in order that the project will be completed on time within authorized cost and to the required quality standards. The aim of this unit is to provide the key concepts and foundation knowledge in project management, and to describe, clarify, and formalise project management process.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

BEB113 MANAGING PROJECT COST
Cost is a major metric of a successful project management. This unit introduces the process of managing project cost which includes planning, estimating, budgeting, and controlling costs so that the project can be completed within the approved budget.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point

BEB114 PROJECT FINANCING
Project is growing in complexity and size. Many projects never get off the ground due to insufficient financing. It is therefore necessary for project managers to know the sources and cost of project funds in order to package a financially viable project for approval. This unit introduces capital budgeting, project finance, and risk analysis. It covers the capital allocation framework, project cash flows, cost of capital, financial risk analysis, and how various types of projects are financed.
Credit points: 12  Campus: Gardens Point  Teaching period: 2011 SEM-2

UDB101 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:** 2011 SEM-1

**UDB102 APPLIED LAW**
Introduces the fundamental principles and practices of Australian governance as they affect the built environment professions. 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:** 2011 SEM-2

**UDB104 URBAN DEVELOPMENT ECONOMICS**
This unit will introduce microeconomic 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.

**Antirequisites:** BSB113, BSD113  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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:** 2011 SEM-1

**UDB111 ENGINEERING CONSTRUCTION MATERIALS**
Structural and non structural materials used in the construction process are examined focusing on the basic properties, construction applications, behaviour, strength, durability, suitability, and limitations. Material manufacture; acoustic and thermal properties; fire tests and fire hazard properties, issues such as cleaning, maintenance, corrosion protection, deterioration and ageing; Sustainable development; Material recycling, Storage on site, Installation processes; identification and causes of building defects and recommendations for potential remedies.

**Equivalents:** CNB102  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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:** 2011 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, woodwork, 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:** 2011 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:** 2011 SEM-1

**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:** 2011 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:** 2011 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:** 2011 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:** 2011 SEM-2

**UDB181 GEOSPATIAL POSITIONING AND GPS**  
This unit will introduce students to skills and knowledge of spatial referencing, site measurement; use of maps and air photos. It will include introduction to map projections; concepts and theory of Global Positioning Systems; introduction to global and local coordinate systems; mission planning and data collection. The unit will highlight the importance of geospatial positioning applications in society.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**UDB182 SURVEYING**  
This unit provides a foundation in field instrumentation and survey computations; a framework for acquisition of a high level of knowledge and practical competence in plane survey computations; use of optical and electronic theodolites; EDM and total electronic station systems, and a focus on collection/presentation of pre-design contour and detail spatial information.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**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.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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  **Credit points:** 12  **Contact hours:** 5 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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  **Credit points:** 12  **Contact hours:** 5 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-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.
Equivalents: CNB209  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

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: UD40MJR-URBPLAN - Urban and Regional Planning Major  Equivalents: CNB295  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

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: 2011 SEM-1

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 context.
Prerequisites: UDB241 and UDB242  Equivalents: CNB391  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

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:** 2011 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-LNDARCH - Landscape Architecture Major  
**Equivalents:** PSB445  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 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:** 2011 SEM-1

**UDB282 REMOTE SENSING**

This unit includes the following: history and principals of remote sensing; types of imagery, image interpretation, satellite systems; supervised and unsupervised image classification; interpretation, analysis and presentation of data; applications in the earth sciences.

**Equivalents:** PSB655  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**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:** 2011 SEM-2

**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:** 2011 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:** 2011 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:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**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: 2011 SEM-2

**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  **Equivalents:** CNB297  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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: 2011 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.

**Equivalents:** PSB451  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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:** 2011 SEM-2

**UDB387 SPATIAL AND LAND INFORMATION MANAGEMENT**
This unit provides you with an understanding of the spatial data infrastructure that will increasingly underpin decision making in diverse areas of development including resource management; urban and rural planning; cadastral administration and facilities management. The unit will provide an introduction to the concepts of a spatial data system planning overview, system implementation, and standards, legal issues, and knowledge-based techniques.

**Prerequisites:** UDB281  **Equivalents:** PSB612  Credit points: 12  Contact hours: 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**UDB388 SPATIAL ANALYSIS PRACTICE**
This unit expands a student’s knowledge in the field of spatial information science within the framework of a practical exercise focussing on advanced spatial analysis techniques. This approach facilitates exposure to and the incorporation of emerging processes of acquisition, validation, storage, extraction, analysis and presentation of spatial information. A geographic information system environment is utilised to provide a practical introduction to industry practices and client expectations. This unit will provide students with enhanced knowledge of the extent, theory and practice of spatial information science and an enhanced ability to define and solve problems associated with manipulation of spatial information systems to meet client expectations.

**Prerequisites:** UDB281  **Equivalents:** PSB654  Credit points: 12  Contact hours: 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 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:** 2011 SEM-1

**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:** 2011 SEM-1

**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:** 2011 SEM-2