

Architecture Building and Planning subjects

Subject descriptions

702-411 Advanced Construction

Credit points: 12.5

Coordinator: Mr Peter Ashford

Prerequisites: 702-308 Structures and Construction 3A (*p.19*) and 702-309 Structures and Construction 3B (*p.19*)

Contact: Four hours of lectures/seminars/tutorials and site visits per week (*Semester 1*).

Description: Topics are selected from and may include the rehabilitation and recycling of existing buildings; concrete repair and protection covering investigation techniques and repair methods; strengthening of existing structures; the development, form and structural behaviour of spatial structures including space frames, cable supported and tension membranes with an emphasis on buildability and construction detailing; facade construction including architectural, performance and detailing; high performance concrete including construction of superflat concrete ground slabs, fibre reinforcement technology and admixtures; ultra high performance concrete and marine structures.

On completion of the subject students should be able to:

- Link structural design concepts and relate these to current construction practices.
- Communicate construction solutions by means of sketches and drawings.
- Propose and evaluate alternative construction systems.

Assessment: One three-hour examination (70%). Written and drawn assignments equivalent to not more than 2000 words (30%). A minimum grade of at least 40% must be achieved in the final examination to pass the subject.

702-644 Advanced Architectural Theory

Credit points: 12.5

Coordinator: Dr Paul Walker

Prerequisites: 702-305 Theories of Architecture (*p.20*), plus a Level 4 Theory or subject deemed equivalent, and approval of Subject Co-ordinator. Admission to a post-BPD course.

Contact: Three hours of lectures and seminars per week (*Semester 1*).

Description: The subject aims to develop understanding of a range of contemporary theories of culture and their implications for architecture. It also aims to develop critical skills with regard to contemporary design practices and architectural knowledge. The seminar will investigate the interaction of architecture and the ideologies that bear on its production and reception. Contemporary critical theories of culture will be examined in relationship to architectural design practices and historiography. Topics will include cultural production and reproduction; identity and agency in architectural production and consumption; the end of modernity and current architectural conceptions of technology and innovation.

Assessment: Written works to the equivalent of 5000 words.

702-453 Advanced Property Analysis

Credit points: 12.5

Coordinator: Dr Richard Reed

Prerequisites: 702-353 Statutory Valuation (*p.19*) or equivalent.

Contact: Two hours of lectures and up to two hours of seminars per week (*Semester 2*).

Description: This subject builds on property fundamentals and focuses on research in the real estate market. The scope includes analysing other types of property markets such as rural property, plant and machinery, specialised properties and business goodwill.

On completion of the subject students should be able to:

- Write and present a minor research thesis on a valuation subject of their choice.
- Demonstrate a sound understanding of broad valuation techniques.

Assessment: Class presentation and assignments totaling no more than 2000 words (40%) and one three-hour examination (60%). A minimum grade of at least 40% must be achieved in the final examination to pass the subject.

Prescribed texts: Australian Property Institute, *The Valuation of Real Estate*, A.P.I., Canberra, 2007.

702-483 Advanced Quantity Surveying

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-361 Construction Cost Planning (*p.5*).

Contact: Up to 4 hours per week (*Semester 2*).

Description: The subject examines applications of economics, management and statistical techniques that are applied to construction economics. The subject includes: professional practice, tax depreciation, value management and construction procurement techniques.

On completion of the subject students should be able to:

- Understand the role of cost management as a means of managing the design process.
- Understand construction processes used in non-residential construction.
- Critically evaluate alternative cost management practices.
- Understand how to apply cost management processes in order to achieve value for the client.

Assessment: Assignments equivalent to not more than 4000 words (40%); one two-hour examination (60%). Students are required to achieve a mark of at least 40% in the exam in order to achieve a pass in the subject.

705-322 Advanced Transport Planning

Availability: Not offered in 2007, next offered in 2008.

Credit points: 12.5

Coordinator: Dr Paul Mees

Prerequisites: 705-218 Transport and Land Use Planning (*p.20*)

Contact: Three hours of lectures and studios per week (*Not Offered*).

Description: This subject explores the processes and skills involved in planning transport and land use in pursuit of environmentally sustainable and socially equitable outcomes. Practical work will provide an opportunity to apply the knowledge acquired. Three principal aspects of transport planning will be explored: 1. Planning and operation of urban public transport; 2. Preparation and evaluation of regional transport plans and major infrastructure plans; 3. Preparation of local and regional travel demand management strategies. Students will have the opportunity to specialise in one or more of these areas.

Assessment: Individual and group assignments equivalent to 5000 words.

705-335 Advanced Urban Planning & Design

Credit points: 12.5

Coordinator: Mr Mario Gutjahr

Prerequisites: A level 2 design subject.

Contact: An average of 1.5 hours of lectures and three hours of studio work per week (*Semester 1*).

Description: The subject presents a series of lectures, readings and studio based practical work to illustrate that planning and design processes involve varied and complex tasks which must be transparent and replicable. The subject develops further skills in analysis and graphic and verbal communication of urban planning and design ideas; it will address issues in current urban planning and design theory and practice; present and evaluate alternative design methods and culminate in the planning and design of an energy-efficient development. The lectures cover urban form and image analysis; axiomatic nature of urban design; urban design controls; urban design method; microclimate and historic precedents. The project work, in particular, explores urban form and image analysis as a basis for a rational and replicable urban planning and design method that responds to the economic, social, political, aesthetic and ecological context of urban development. The studio based work includes a short exercise and a major project comprising five consecutive stages intended to test a systematic approach to urban design.

On completion of the subject students should be able to:

- Identify and apply professional skills appropriate to current urban design practice, in particular urban form and image analysis.
- Develop solutions to unfamiliar urban design problems and make responsible urban design decisions based on a replicable and rational design methodology.
- Analyse complex urban design issues in terms of their environmental, social and regulatory contexts.
- Generate alternative, interpretive and conceptual approaches to urban design problems.
- Prepare urban design framework plans.

Assessment: Progressive assessment based on the coursework to the equivalent of 5000 words, comprising a design exercise (10%), a staged major project (80%) and a short class test (10%).

702-101 Architectural Design 1A

Note: Formerly available as 702-101 Introduction to Design. Students who have completed Introduction to Design are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Mr. Alex Selenitsch

Contact: A one hour lecture plus 3 hours of studio per week (*Semester 1*).

Description: Students will be introduced to architectural space through readings, studio-based projects and assignments, based on such generic discourses as 'surface', where space is generated through the confrontation of a body and an expanse of material; 'box', where space is generated through extensions of the human body in all directions; and 'fields', where space is generated by the behaviour of individual units acting in groups. Projects will be designed to show common approaches to space in architecture, landscape architecture and urban design. Projects will gradually introduce techniques of spatial representation from simple paper models to orthographic drawings to more complex combinations of models and drawings.

On completion of the subject students should be able to:

- Generate design proposals for indoor and outdoor lived environments.
- Generate design proposals that respond to contemporary social and cultural requirements.

Assessment: Projects, studio tests, exercises and tutorial presentations, to the equivalent of 5000 words.

702-103 Architectural Design 1B

Note: Formerly available as 702-103 Architectural Design and Practice 1. Students who have completed 702-103 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Dr Anoma Pieris

Contact: One hour lecture with three hours studio work (*Semester 2*).

Description: Students will undertake a series of readings, studio-based exercises and assignments introducing them to methods of analysis, abstraction, and synthesis in design thinking that are common to the fields of building and architecture; basic composition and applied organisational techniques widely used by designers; the effects that planning and program, spatial order (and its conceptualisation), materials, technology and the environment have on design. Assignments require a synthesis with the student's concurrent studies in other subjects (particularly construction technology and communications), culminating in the architectural design of small-scaled, energy-efficient buildings with simple programs.

On completion of the subject students should be able to:

- Generate design proposals for indoor and outdoor lived environments.
- Generate design proposals that respond to contemporary social and cultural requirements.

Assessment: Assessment will be based on two major projects, weekly assignments, a design diary and portfolio to the equivalent of 5,000 words.

702-104 Architectural Design 1C

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-103 Architectural Design 1B (*p.2*), or 705-174 Designing the Local Urban Landscape (*p.9*)

Contact: Eight hours of lectures, seminars, and tutorials per week over six weeks (*Summer semester*).

Description: Students will undertake a series of readings, studio-based exercises and assignments that introduce the principles and methods of analysis, abstraction, and synthesis in design thinking that are common to many design fields, including architectural design, landscape design and building. Introduction to basic composition and applied organisational techniques widely used by designers; the effects that program, materials, technology and the environment have on design decisions; form and expression. Assignments require the student to synthesise knowledge from concurrent studies in other subjects.

On completion of the subject students should be able to:

- Generate design proposals for indoor and outdoor lived environments.
- Generate design proposals that respond to contemporary social and cultural requirements.

Assessment: Projects, studio tests, exercises and tutorial presentations, to the equivalent of 5000 words.

702-204 Architectural Design 2A

Note: Formerly available as 702-204 Architectural Design and Practice 2A. Students who have completed 702-204 are not eligible to enrol in this subject. The Summer Semester option is only available to mid-year and lateral-entry students in BArchStudies or BPD (Architecture). Enrolments by other degree students will be considered by the Dean on an individual basis and the subject will only be available to such students on a full-fee paying basis.

Credit points: 25

Coordinator: Jules Moloney

Prerequisites: Two of 702-101 Architectural Design 1A (*p.1*), 702-103 Architectural Design 1B (*p.2*) or 702-104 Architectural Design 1C (*p.2*)

Contact: A one-hour lecture and up to six hours of seminars, tutorials and studio work per week (*Semester 1*).

Description: Students will undertake a series of studio-based exercises in design which introduce iterative techniques for generating architectural design. Through a series of structured exercises using drawing, physical model making, digital imaging and 3D computer modeling, students will develop ideas for architectural form, which are subsequently tested against function and site constraints. The aim is to extend formal vocabularies - surface, geometry, space - and introduce the idea that architecture is experienced through time as a sequence of interconnected spaces and experiences. These exercises are the starting points for the design of medium scale public building. The objective is to develop a convincing representation of surface, form, space, and light explored in relation to a personal interpretation of the functional brief and in relation to particular site conditions. Along with the ability to conceptualise in three dimensions, students will develop appropriate documentation and graphic and model-making skills sufficient to undertake Architectural Design and Practice 2B.

On completion of the subject students should be able to:

- Understand the value of developing ideas across a range of media.
- Generate architectural proposals suitable for medium scale public or institutional buildings.

Assessment: Assessment will be based on two projects (40% and 60%).

702-206 Architectural Design 2B

Note: Formerly available as 702-206 Architectural Design and Practice 2B. Students who have completed 702-206 are not eligible to enrol in this subject.

Credit points: 25

Coordinator: Dr. Hannah Lewi

Prerequisites: Two of 702-101 Architectural Design 1A (*p.1*), 702-103 Architectural Design 1B (*p.2*) or 702-104 Architectural Design 1C (*p.2*)

Contact: A one-hour lecture and up to six hours of seminars, tutorials and studio work per week (*Semester 2*).

Description: Students will undertake one or more design projects which will focus on cultural and social aspects of the design process. Students will be required to analyse a complex program and then express this in an architectural form. This will provide students with an opportunity to learn and develop new knowledge and skills in theory, technology, history and communications, as well as to develop their existing architectural knowledge and skill. Most importantly, students must be able to integrate these things into their design proposals. For more specific information students should refer to the *Studio Guide* handed out at the beginning of the semester.

On completion of the subject students should be able to:

- Generate architectural proposals suitable for medium scale public or institutional buildings.
- Develop design proposals that incorporate structural and environmental principles.

Assessment: Major and minor projects and a review of a portfolio of all assignments set during the semester. The portfolio may include group projects, studio exercises and presentations to the equivalent of 10,000 words.

702-205 Architectural Design 2C

Credit points: 12.5

Coordinator: To be advised

Prerequisites: This subject is only available to mid-year and lateral-entry students in BPD Architecture and BLArch. Enrolments by other degree students will be considered by the Head of Program on an individual basis.

Contact: Eight hours of lectures, seminars, and tutorials per week over six weeks (*Summer semester*).

Description: Students will undertake a series of studio-based exercises in design that introduce techniques for analysing increasingly complex programs and their development into expressive architectural form. The subject will cover principles of architectural tectonics (such as mass, column/wall, frame and infill) as the synthesis of form, structure, construction, materials, program and space. Projects will also deal with the volumetric manipulation of internal architectural space; techniques for analysing complex programs and the cultural meanings and human values expressed within them. Functional planning and the synthesis of plan and section to achieve architectural form that is tectonically expressive, constructionally, structurally, and environmentally sound, and responsive to its site. Along with the ability to conceptualise in three dimensions, students will develop appropriate documentation and graphic, and model-making skills sufficient to integrate these things into their design proposals. For more specific information students should refer to the *Studio Guide* handed out at the beginning of the semester.

On completion of the subject students should be able to:

- Generate architectural proposals suitable for medium scale public or institutional buildings.

- Develop design proposals that incorporate structural and environmental principles.

Assessment: Assessment will be based on two major projects and a portfolio review of all assignments set during the semester. Projects, studio tests, exercises, and tutorial presentations to the equivalent of 5000 words.

702-302 Architectural Design 3A

Note: Formerly available as 702-303 Architectural Design and Practice 3. Students who have completed 702-303 are not eligible to enrol in this subject.

Credit points: 25

Coordinator: Dr.Derham Groves

Prerequisites: Two of 702-206 Architectural Design 2B (p.2), 702-204 Architectural Design 2A (p.2) or 702-205 Architectural Design 2C (p.2)

Contact: One hour of lectures and six hours of studio work per week (*Semester 1*).

Description: Students will undertake a series of studio-based exercises in design demanding greater synthesis of diverse requirements and leading to increasingly resolved designs. Emphases include: three-dimensional spatial ordering, the development of an architectural language that can be responsive to different conditions, representation and composition and an examination of interior architectural form and landscape.

On completion of the subject students should be able to:

- Demonstrate an ability to work within statutory and programmatic requirements and to incorporate environmental principles.
- Understand the techniques for analysing built context and use this analysis to inform the design process.
- Utilize analytical and synthesizing skills (including appropriate documentation, graphic and model-making skills).
- Demonstrate skills commensurate with the skills required by the architectural profession of an architectural technical assistant.

Assessment: Assessment will be based on two major projects and a review of a portfolio of all assignments set during the semester. Projects, class tests, studio tests, exercises, and tutorial presentations to the equivalent of 10 000 words.

702-342 Architectural Design 3B

Note: Formerly available as 702-340 Design 3. Students who have completed 702-340 are not eligible to enrol in this subject. This subject may be substituted by a similar level design subject with the approval of the Faculty.

Credit points: 25

Coordinator: Andrew Hutson

Prerequisites: Two of 702-206 Architectural Design 2B (p.2) or 702-204 Architectural Design 2A (p.2) or 702-205 Architectural Design 2C (p.2)

Contact: Six hours of lectures, seminars and tutorials per week plus additional studio work (*Semester 2*).

Description: Students will undertake a series of studio-based exercises directed to the schematic design, design development and partial documentation of a medium-scale commercial, institutional or industrial building that is responsive to its setting and the resolution of its programmatic, environmental and technical requirements.

On completion of the subject students should be able to:

- Be able to develop a design program into a well-resolved design and construction proposal.
- Have a developed knowledge of design principles, construction techniques and regulations influencing the design of medium scale commercial, institutional or industrial buildings.

Assessment: Assessment will be based on a major design project and a review of a portfolio of all assignments set during the semester. Project, studio tests, exercises, reports and tutorial presentations to the equivalent of 10,000 words.

702-403 Architectural Design 4A

Note: Formerly available as 702-403 Architectural Design and Practice 4. Students who have completed 702-403 are not eligible to enrol in this subject.

Credit points: 25

Coordinator: Dr. Anoma Pieris

Prerequisites: 702-302 Architectural Design 3A (p.3)

Contact: Three hours of lectures and three hours of tutorials per week (*Semester 1*).

Description: This subject explores the hypothesis that design quality is in many ways the outcome of a collaborative effort and the successful combination of different dimensions and scales. In developing a medium-density housing scheme, students are required to investigate the relationships between individual buildings and collective environments and between micro and macro spaces. Regulatory constraints, urban policies and building technical

issues are introduced and treated as design parameters. The creative and communicative function of architectural representation is emphasised by asking students to convey their design intent through specific technical descriptions. These range from urban massing models to building sectional drawings, and from perspective sketches to spatial details. Three small assignments are used in conjunction with the lecture program to clarify particular issues of the larger brief.

On completion of the subject students should be able to:

- Relate individual buildings and collective environments, micro and macro spaces.
- Adapt individual choices to group decisions.
- Convey design intentions through specific technical descriptions.
- Translate regulatory constraints and urban policies into design parameters.
- Evaluate design decisions against industrial environmental conditions, building scale and program requirements.
- Identify performance differences and mutual impacts within the spatial program developed.
- Understand the problems implied in the proposal rather than prescribed in the brief.

Assessment: Assessment will be based on the final presentation of the major project and a review of a portfolio of all assignments set during the semester to the equivalent of 10,000 words.

702-404 Architectural Design 4B

Note: Formerly available as 702-440 Design 4. Students who have completed 702-440 are not eligible to enrol in this subject. This subject may be substituted by a similar level design subject with the approval of the Faculty.

Credit points: 25

Coordinator: TBA

Prerequisites: 702-403 Architectural Design 4A (p.3)

Contact: Two hours of lectures per week and up to 6 hours of studio per week (*Semester 2*).

Description: Students will undertake a series of studio-based exercises leading to the development of a major design project based on the disciplinary or inter-disciplinary theme of the design studio.

On completion of the subject students should be able to:

- Test theoretical propositions in an urban context.
- Relate individual buildings and collective environments, micro and macro spaces.
- Adapt individual choices to group decisions.
- Convey design intentions through specific technical descriptions.
- Translate regulatory constraints and urban policies into design parameters.
- Evaluate design decisions against industrial environmental conditions, building scale and program requirements.
- Identify performance differences and mutual impacts within the spatial program developed.
- Understand the problems implied in the proposal rather than prescribed in the brief.

Assessment: Assessment equivalent to 10,000 words comprising assignments during semester and a final design presentation and submission..

702-503 Architectural Design 5A

Note: Formerly available as 702-503 Architectural Design and Practice 5. Students who have completed 702-503 are not eligible to enrol in this subject.

Credit points: 25

Coordinator: Steve Whitford

Prerequisites: 702-404 Architectural Design 4B (p.3)

Contact: Six hours of seminars and tutorials per week; up to one hour of lectures per week; additional studio work as required (*Semester 1*).

Description: Students will undertake a series of studio-based exercises directed to the design of a large-scale building complex that is responsive to its urban setting, the resolution of its programmatic environmental and technical requirements and the graphic representation of this design. This will also include part of the detailed design development and documentation and a project report that describes and illustrates the design proposal and its response to the urban, environmental, programmatic and technical issues, and in all the above, demonstrate the design skills commensurate with those required by the architectural profession of a graduate architect.

On completion of the subject students should be able to:

- Integrate the diverse requirements of larger scale architectural projects.
- Communicate at a level expected of a graduate of architecture regarding design decisions and building details.

- Communicate design and building decisions by using correct and appropriate notational representations.
- Assess the efficiency of their design decisions against possible alternatives.
- Incorporate notions of daily, seasonal and life-cycle dynamic behaviour in the environment designed.
- Effect the life-cycle of the artefact envisioned.
- Relate their work to specific intellectual traditions.
- React to external constraints and meet the competency requirements of the ARBV (academic qualification)
- Evaluate the results of their own work.
- Develop performance based design.
- Evaluate the practical implications of theoretical urban frameworks.

Assessment: Assessment will be based on a major design project and a review as required of a portfolio of all assignments set during the semester. Project, studio test, exercises, reports and tutorial presentations to the equivalent of 10,000 words.

702-540 Architectural Design 5B

Note: Formerly available as 702-540 Design 5. Students who have completed 702-540 are not eligible to enrol in this subject. This subject may be substituted by a similar level design subject with the approval of the Faculty.

Credit points: 25

Coordinator: Dr Greg Missingham

Prerequisites: 702-404 Architectural Design 4B (p.3) plus one of the following: 702-446 Political Economy of Design (p.14), 702-574 Representing Place (p.17), 702-447 Design Approaches and Methods (p.8), 702-402 Digital Speculations (p.9), 705-415 Contemp'ry Theory & Australian Landscape (p.7), 705-335 Advanced Urban Planning & Design (p.1).

Contact: Six hours of seminars, and tutorials per week; up to one hour of lectures per week; additional studio work as required (*Semester 2*).

Description: Students will undertake a series of studio-based exercises leading to the development of a major design project based on the disciplinary or inter-disciplinary theme of the design studio requiring a detailed knowledge of a specialist aspect of design, or an inter-disciplinary specialist aspect of design and its presentation and demonstration, both graphically and orally.

On completion of the subject students should be able to:

- Integrate the diverse requirements of larger scale architectural projects.
- Communicate at a level expected of a graduate of architecture regarding design decisions and building details.
- Communicate design and building decisions by using correct and appropriate notational representations.
- Assess the efficiency of their design decisions against possible alternatives.
- Incorporate notions of daily, seasonal and life-cycle dynamic behaviour in the environment designed.
- Effect the life-cycle of the artefact envisioned.
- Relate their work to specific intellectual traditions.
- React to external constraints and meet the competency requirements of the ARBV (academic qualification)
- Evaluate the results of their own work.
- Develop performance based design.
- Evaluate the practical implications of theoretical urban frameworks.

Assessment: Assessment will be based on a major design project and a review as required of a portfolio of all assignments set during the semester. Project, studio test, exercises, reports, and tutorial presentations to the equivalent of 10,000 words.

702-348 Architectural Practice A

Credit points: 12.5

Coordinator: Peter Raisbeck

Prerequisites: 702-206 Architectural Design 2B (p.2)

Contact: Up to three hours of lectures per week (*Semester 1*).

Description: A theoretical and analytical investigation of the best methods available to architects to fulfil their legal, ethical and professional obligations to clients and other parties affected by both the practice and business of architecture. Fields of study include an overview of the construction industry; the client and fee agreements, consultants and advisers; the stages of delivery; monitoring incomings and outgoings; contracts involving architects including building contracts; insurances; professional bodies and the role of continuing education.

On completion of the subject students should be able to:

- Demonstrate an understanding of the body of knowledge defining architectural practice.

- Assess and respond to the requirements of relevant parties.
- Implement the procedures necessary to ensure the orderly delivery of architectural services.
- Manage risks with particular reference to their identification, allocation and control.

Assessment: Three written assignments (30%), one group assignment (20%) and a written 2 hour exam (50%).

702-405 Architectural Practice B

Credit points: 12.5

Coordinator: Peter Raisbeck

Prerequisites: 702-348 Architectural Practice A (p.4)

Contact: Up to three hours of lectures per week (*Semester 2*).

Description: A theoretical and analytical investigation of the best methods available to architects to fulfil their legal, ethical and professional obligations to clients and other parties affected by both the practice and business of architecture. Fields of study include a further overview of the construction industry; office practice including accounting and financial reporting; employment; the procurement of buildings, tendering, building contract administration and control of cost, time and quality; quality assurance; programs and regulatory constraints.

On completion of the subject students should be able to:

- Demonstrate an understanding of the body of knowledge defining architectural practice.
- Assess and respond to the requirements of relevant parties.
- Implement the procedures necessary to ensure the orderly delivery of architectural services.
- Manage risks with particular reference to their identification, allocation and control.

Assessment: One individual assignment (20%), two group assignments (20% each) and one two hour exam (40%).

702-233 Asian Architecture A: Southeast Asia

Credit points: 12.5

Coordinator: Dr. Derham Groves

Prerequisites: Any level-one Fine Arts/architectural-history subject offered by the Faculty of Arts or the Faculty of Architecture Building and Planning (or permission of the Head of Department).

Contact: One two-hour lecture and a one-hour tutorial per week. If numbers permit, there will also be a day trip to Bendigo (*Semester 1*).

Description: This course will examine architecture in India, Vietnam, south China, Malaysia, Indonesia and Australia from five main points of view: Builders' rites and ceremonies; Everyday architecture; Religious architecture; Western architects in India and South East Asia; Indian and South East Asian Architecture in Melbourne.

On completion of the subject students should be able to:

- Demonstrate a basic understanding of Feng Shui.
- Describe domestic, commercial and religious architecture in South East Asia.
- Describe and identify examples of immigrant architecture in Australia.
- Explain the context and historical background of examples of Western architecture in India and South-East Asia.

Assessment: A 2000 word essay, a sketchbook and an exam (or equivalent). Students are required to attend all lectures and tutorials. Students with an attendance rate below 75% will be excluded from assessment.

702-234 Asian Architecture B: China Korea Japan

Credit points: 12.5

Coordinator: Dr Qinghua Guo

Prerequisites: A level-one architectural-history subject.

Contact: One 2 hour lecture and 1 tutorial per week (*Semester 2*).

Description: The course considers the history of East Asian architecture as a whole within a systematic treatment of architectural design and construction, building science and technology, garden design and city planning. The course lays stress equally on architecture, gardens and planning with an emphasis on ideas and techniques. Topics include the formation and development of vernacular architecture, timber architecture, city, palace, garden, ritual architecture, tombs and educational architecture.

On completion of the subject students should be able to:

- Display an understanding of the tangible and intangible architectural heritage of Chinese, Korean and Japanese architecture.
- Interpret buildings, gardens and places in terms of their context, planning, form, scale, techniques, construction, function and social role.

Assessment: A class paper, an annotated bibliography and an essay or architectural model to the equivalent of 3000 words (60%); plus a two-hour examination (40%).

702-431 Australian Architecture

Credit points: 12.5

Coordinator: Dr Julie Willis

Prerequisites: 702-231 Modern Architecture A: 19th Century (*p.13*) or 702-232 Modern Architecture B: 20th Century (*p.13*) or equivalent

Contact: Two lectures and one tutorial per week (*Semester 1*).

Description: Topics include the development and planning of settlements in Australia; the colonial architecture of New South Wales and Tasmania; land and building regulations, urban conditions, building techniques; the development of architecture in Melbourne from its founding to recent times and the emergence of modern architecture. Special emphasis will be placed on the Melbourne environment.

On completion of the subject students should be able to:

- Understand the historical development of Australian architecture, construction, landscape design and urban planning.
- Demonstrate an appreciation of the formative traditions in the design of the built environment in Australia by establishing an overall cultural framework within which an individual building (or place) can be located and assessed.
- Analyze buildings and places in terms of their context, form, planning, spatial effects, construction, function and social role.

Assessment: An essay and drawn or written exercises totaling the equivalent of 3000 words (50%) plus a two-hour examination (50%).

Prescribed texts: 702-431, *Subject Reader*, Annual publication.

702-635 Australian Building Analysis

Note: Available 2007 and alternate years thereafter.

Credit points: 12.5

Coordinator: Professor Miles Lewis

Prerequisites: 702-431 Australian Architecture (*p.5*) and admission to a post-BPD course.

Contact: Two lectures and one tutorial a week or the equivalent (*Semester 1*).

Description: An introduction to analysis of Australian buildings and their technology. Historical investigation from primary sources. The philosophy of conservation and the main avenues for researching buildings. Development of skills in the documentary and physical investigation of buildings including materials, patents, paint and wallpaper analysis.

On completion of the subject students should be able to:

- Locate and interpret documentary sources on land ownership, building construction and property occupation.
- Diagnose structural changes.
- Recognise distinctive aspects of building technology.
- Interpret evidence of painted and papered finishes.
- Synthesise historical data into a coherent account of the physical development of a structure.
- Relate a building or place to examples of comparable cultural significance.

Assessment: Exercises (drawn and/or written) to the equivalent of not more than 5000 words.

Prescribed texts: M Lewis, *Physical Investigation of a Building*, Melbourne, 1989.

705-228 Australian Urban Planning

Credit points: 12.5

Coordinator: TBA

Contact: Two hours of lectures and a one hour tutorial per week (*Semester 2*).

Description: The subject reviews the planning of Australian cities (wherein greatest emphasis is given to the post-war period) and also assesses the future of planning. Australian urban planning is set in an international and theoretical context discussing the values and understandings that gave rise to the institutions of governmental planning. The subject has four main themes: Australian urban planning practice today, with examples of policy making and implementation, the changing governmental context of urban planning, the tension between private sector development and its regulation and the new agenda for planning in the 21st century.

On completion of the subject students should be able to:

- Understand contemporary planning practice as an historical phenomenon.
- Observe and investigate the social impact of urban development.
- Think critically about the causes of urban conflict.

- Demonstrate skill in communication and debate.

Assessment: Tutorial papers to the equivalent of 3000 words (60%), and a two-hour examination (40%).

705-273 CAD in Landscape Architecture

Credit points: 12.5

Coordinator: Mr Adam Dean

Semester: Semester 2

Additional details as for 702-208 Digital Design Modelling (*p.9*).

702-102 City in History

Credit points: 12.5

Coordinator: Associate Professor Paul Walker

Contact: Two lectures and one tutorial per week (*Semester 1*).

Description: An introduction to the history of architecture, building construction, urban planning and design and landscape architecture, in the context of social, technical and environmental settings. An introduction to the role of analysis in the understanding of physical cultural artifacts in their historical and contemporary context. Exploration of the discipline of history, by involvement in structured activities, including the study of scholarly literature, practising the conventions of scholarly writing, and of class paper writing and presentation.

Assessment: An essay, and portfolio of drawings, to the equivalent of not more than 3500 words, and one 1.5-hour class test (which may take the form of a class test).

702-361 Construction Cost Planning

Note: Formerly available as 702-361 Cost Management 3 and 702-361 Construction Cost Planning and Control. Students who have completed 702-361 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-216 Introduction to Cost Management (*p.11*)

Contact: Up to 4 hours per week (*Semester 2*).

Description: The subject continues examination of financial management of the construction process and practice of the professional quantity surveyor. The subject will concentrate on preparing cost plans, construction price forecasting, and construction cost control techniques.

On completion of the subject students should be able to:

- Know how to apply standard cost planning techniques to simple buildings.
- Understand the role of cost planning and analysis as a means of managing the design process.
- Understand the process of construction forecasting.
- Understand when to apply simple modelling processes.

Assessment: Practical exercises and assignments equivalent to 3000 words (40%) and one two-hour examination (60%). Students are required to achieve a mark of at least 40% in the exam in order to pass the subject.

732-320 Construction Law

Credit points: 12.5

Coordinator: Mr Matthew Bell

Prerequisites: 732-103 Principles of Business Law or 702-117 Management of Construction 1 (with a pass in the components relating to Introduction to Law, Contract and Tort) or otherwise with permission of the subject co-ordinator.

Contact: Two hours of lectures and 1 hour of tutorial per week throughout the semester. Estimated 144 hours in total (*Semester 1*).

Description: This subject builds upon the general legal principles and methodologies encountered in Principles of Business Law or other basic law subjects undertaken by students. It provides detailed treatment of select construction law topics, tailored to the needs of professionals within the building and construction industry, including: the regulatory framework (including security of payment and building regulations); contract methodologies and selection (including traditional and alternative forms of contract); subcontract issues; causes of action, and liability, arising in contract, negligence and on other grounds; insurance and performance security; dispute resolution and avoidance.

On completion of the subject students should be able to:

- Understand the evolution of the law relating to contractual dispute resolution.
- Recommend appropriate methods of dispute resolution for situations arising in the construction industry.
- Evaluate the appropriateness of different construction contract models.
- Understand and apply construction contract models.

- Comprehend the legislative and regulatory framework governing the construction industry.
- Deal with issues relating to insurance.

Assessment: A two-hour examination (70%), and a 1500 word mid-semester legal research assignment (30%).

Prescribed texts: Bailey, Ian (1998), *Construction Law in Australia*, Law Book Co., 2nd Edn..

702-362 Construction Methods and Planning

Note: This subject amalgamates content previously offered in 702316 / 886 Management of Construction 3 and 702310 / 880 Construction Methods and Equipment. Students who have obtained credit for one of these subjects cannot also obtain credit for 702362 / 862 Construction Methods and Planning.

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-236 Construction Site Management (p.6)

Contact: Four hours of lectures and the equivalent of one hour practical per week throughout the semester (*Semester 2*).

Description: Time and resource management of construction projects. Development of project plans using computer scheduling software. Relationship between construction methods and resources. Work breakdown structures. Planning and equipment for site excavation and basement excavation. Scaffolding and temporary structures. Lifting equipment (including cranes, man hoists, concrete pumps) and its deployment. Formwork systems. Temporary power. Site safety and codes of practice.

On completion of the subject students should be able to:

- Assess the suitability of plant and equipment for various construction methods.
- Complete preliminary risk assessment and hazard identification of construction plant.
- Be conversant with terminology associated with construction site management and equipment.
- Understand the "Occupational Health and Safety Act" and determine compliance with the construction "Codes of Practice".
- Prepare a detailed construction schedule using planning software.

Assessment: Assignments equivalent to not more than 2000 words (40%) and one 3-hour examination (60%). A minimum grade of 40% must be achieved in the examination in order to pass the subject.

702-336 Construction Regulation A

Credit points: 12.5

Coordinator: Ms. Sara Wilkinson

Prerequisites: 702-219 Science and Services (p.18)

Contact: Two hours of lectures and one hour of tutorials or seminars per week (*Semester 1*).

Description: An introduction to construction regulations including: government legislation, the Building Code of Australia, performance requirements, Deemed-to-Satisfy solutions and alternative solutions. Fire technology including: fire science; fire statistics; causes of fire; rural wildfire; fire prevention; fire containment. first-aid fire fighting; automatic fire detection; automatic fire suppression; fire properties of materials. fire resistance levels; human movement and emergency egress; emergency warning systems; emergency lighting; controlling smoke spread. An overview of the BCA Deemed-to-Satisfy fire-related provisions and associated standards and codes. An introduction to fire safety engineering, including: analysing fire and smoke spread; use of computer tools; preparing alternative solutions; evaluating alternative solutions. An introduction to sustainable building practice in the context of legislation, regulations, standards and codes.

On completion of the subject students should be able to:

- Understand and apply parts of the Building Code of Australia to simple buildings.
- Appreciate the system of construction regulations in Australia.
- Understand the nature and cause of fire in relation to the built environment.
- Appreciate the principles and discipline of fire safety engineering.

Assessment: One three-hour examination (60%) and assignments totaling 2000 words (40%). A grade of at least 40% must be achieved in the final examination to pass the subject.

702-436 Construction Regulation B

Credit points: 12.5

Coordinator: Ms. Sara Wilkinson

Pre or Corequisites: 702-336 Construction Regulation A (p.6)

Contact: Two hours of lectures and one hour of tutorials or seminars per week (*Semester 2*).

Description: Examination of how society can achieve its legitimate objectives in controlling building standards in new buildings and existing buildings. Examination of how current regimes of government control are structured, how they operate, where they are deficient, and the implications for professionals in the field. Existing Acts, Regulations and quasi-regulatory instruments. How the current privatised systems of building control operate, including the concept and practicalities of professional independence and the limited effectiveness of professional indemnity insurance. The relevance, structure, origins and future of the Building Code of Australia and associated Australian Standards. The relevance of planning controls. The processes of building control including checking of building documentation, issuing of building permits, inspection of works during construction, overseeing of commissioning of building systems, establishing ongoing regimes for building maintenance of essential services and issuing of occupancy permits.

On completion of the subject students should be able to:

- Appreciate the scope and limitations of construction regulations.
- Understand the role of the building surveyor in the building permit process.
- Understand the appeals process.
- Understand the process of checking compliance in building documentation.

Assessment: One three-hour examination (60%) and assignments totaling 2,000 words (40%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

702-236 Construction Site Management

Credit points: 12.5

Coordinator: Ms Valerie Francis

Prerequisites: 702-117 Principles of Construction Management (p.15)

Contact: Up to three hours of lectures and one hour of tutorial per week (*Semester 1*).

Description: The subject focuses on issues affecting the management of construction at the site level. Construction project planning techniques and resource management systems are introduced. An overview to the issues affecting the efficient use of resources such as labour, materials, plant and equipment is provided and techniques to improve labour productivity such as work study and activity sampling are presented. Critical path scheduling is introduced and the construction plan for a low rise commercial building is undertaken. Contractor's cost control, industrial relations, site safety and quality assurance are also examined.

On completion of the subject students should be able to:

- Understand the roles and responsibilities of the parties involved in the construction stage of a building.
- Demonstrate a general knowledge of site management procedures for the efficient and effective use of resources on a construction site.
- Appreciate factors affecting site productivity including the factors of industrial relations and safety at the site level.
- Show a sound understanding of critical path scheduling and apply this knowledge to a given situation.

Assessment: One three-hour examination (60%) and assignments to the equivalent of not more than 2000 words (40%). A minimum mark of 40% must be achieved in the examination in order to pass the subject.

Prescribed texts: 702-236, *Study Guide and Reader*, Annual publication.

702-137 Construction Technology 1A

Credit points: 12.5

Coordinator: Ms Clare Newton

Contact: Two hours of lectures and an average of 2.5 hours of tutorials, workshops and/or site visits per week (*Semester 1*).

Description: The subject is divided into two sections: Structures and Construction Technology in which there is a focus on materials and timber framing. The subject aims to: progressively introduce structural principles and modelling relevant to architectural design and building construction; introduce a framework for understanding the properties and environment impact of fundamental building materials and how they are used within the construction industry; introduce case studies of light timber framing and concrete footings to help students develop an intuitive understanding of structure and materials.

On completion of the subject students should be able to:

- Understand issues of strength, stiffness and stability of structures including modes of action of structural systems, forces, stress and strain, laws of statics and an introduction to trusses.
- Group materials according to their properties and understand how these properties influence the use of materials within the construction industry and their environmental impact. Properties to be considered include strength, elasticity, opacity and conductivity.

- Understand the importance of standards and codes using timber and concrete as case studies to develop simple frames and footings.
- Apply a range of methods to research, visualise, select and test construction materials and basic structures and demonstrate these through design and construction of simple objects.

Assessment: Assignments (eg. tutorial exercises, site reports, workshop exercises, class presentations, construction drawings) equivalent to not more than 3000 words (60%) and an examination of two hours (40%).

Prescribed texts: AJ MacDonald, *Structure and Architecture (2nd Edition)*, Oxford, Architectural Press (2001). • Shahin Vassigh, *Interactive Structures, Visualizing Structural Behavior*, Wiley, 2005.

702-138 Construction Technology 1B

Credit points: 12.5

Coordinator: Dr Dominique Hes

Contact: Two hours of lectures and two hours of tutorials per week. Students are required to independently and regularly visit project construction sites (*Semester 2*).

Description: Documentation practices, construction principles, materials, construction elements, systems and techniques used in residential construction. An introduction to and the use of Australian Standards related to domestic construction and architectural drafting.

On completion of the subject students should be able to:

- Relate basic structural principles to standard brick veneer domestic construction.
- Interpret building codes and regulations and apply them in the design of domestic construction.
- Communicate construction proposals in brick veneer construction and timber framing by means of sketches and drawings.
- Understand basic construction principles and practice and be able to apply these in domestic construction.

Assessment: Assignments (e.g. tutorial exercises, site reports, class presentations, construction drawings and models) equivalent to not more than 3000 words (70%) and one examination of two hours (30%). A minimum grade of 40% must be achieved in the exam in order to pass the subject.

Prescribed texts: All standards to have current amendments:

Standards Australia, *AS1100.301-1985 and Supplement 1-1986 Technical Drawing-Architectural drawing*. • Standards Australia, *AS2870-1996 Residential slabs and footings-Construction*. • Standards Australia, *AS1684.4-1999 Residential timber-framed construction - Simplified - Non-cyclonic areas*. • Wilkie, George and Stuart Arden, *Building Your Own Home*, Lansdowne Publishing, 2003.

702-237 Construction Technology 2A

Note: Formerly available as 702-237 Construction Technology 2A. Students who have completed 702-237 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Mr Blair Gardiner

Prerequisites: 702-137 Construction Technology 1A (*p.6*) and 702-138 Construction Technology 1B (*p.7*).

Contact: Two hours of lectures and an average of two hours of tutorials per week. Students are also required to independently and regularly visit project construction sites (*Semester 1*).

Description: Documentation practices, construction principles, materials, techniques and detailing commonly used in residential and small scale commercial construction. Lectures incorporate: site analysis and site establishment, energy efficiency and waste management, construction systems, detailing principles, site works, footings and floor slabs, basements and waterproofing, concrete construction, steelwork, walls systems, façade systems, metal deck roofing and rainwater goods, detailing for moisture protection, water vapour, accommodating movement and constructability. Case studies will be examined.

On completion of the subject students should be able to:

- Relate basic structural principles to medium-scaled commercial construction and architect-designed residential projects.
- Understand a set of architectural and structural documentation.
- Communicate construction proposals by means of sketches, drawings and/or models.
- Understand basic construction principles and practice and be able to apply these in architect-designed medium-scaled projects.

Assessment: Assignments (eg. tutorial exercises, site reports, class presentations, construction drawings, including models) equivalent to 3000 words (60%), and one examination of two hours (40%). Assignments may relate to work undertaken in other subjects. Regardless of assignment results, a minimum grade of 40% must be achieved in the exam in order to pass the subject.

Prescribed texts: Francis Ching, *Building Construction Illustrated*.

705-470 Contemporary Planning Practice

Credit points: 12.5

Coordinator: Ms Angela Munro

Prerequisites: Must be in final (4th) year of BUPD.

Contact: A 1.5 hour lecture and a 1.5 hour seminar per week (*Semester 2*).

Description: Contemporary Planning Practice explores a current question in urban planning in depth. In 2007, our focus is on metropolitan strategic planning, in particular the Melbourne 2030 metropolitan strategy. The strategy will provide the context for our deliberations this semester, but as we have a class drawn from a range of cities, we should be in an excellent position to compare practice in Melbourne with that in other places. The course covers the practice of metropolitan planning and can thus be distinguished from many similar subjects offered at universities, which concentrate either on theoretical critiques of traditional approaches, or on surveying current issues in metropolitan planning. We will be dealing with questions of this kind, but will do so in a way that seeks to go beyond mere critique and survey, to possible reform of planning practice.

The type of metropolitan planning explored in this course is new. There are no textbooks or manuals that explain how it is carried out and relatively few practical examples of its successful implementation. Planning academics by and large have preferred to 'deconstruct' old approaches to metropolitan planning, rather than to 'construct' new ones. So all of us, including the staff, will be learning as we go.

Assessment: Advanced seminar paper of 3000 words (50%); group project equivalent to a further 3000 words (50%).

705-415 Contemp'ry Theory & Australian Landscape

Credit points: 12.5

Coordinator: Professor Catherin Bull

Prerequisites: Completion of a level-3 design or design theory subject.

Contact: Three hours of lectures, tutorials and workshops per week, plus a weekend field trip (*Semester 1*).

Description: This subject is based on a review of recent theoretical developments in the areas of landscape architecture, landscape perceptions and landscape theory, and their application to the Australian landscape and contemporary landscape architectural practice. The latter is introduced by lectures, critiques and case analyses linking theory to execute works. Guest lecturers include practitioners and theorists in the areas covered, including cultural landscape, iconography of landscape, artistic interpretations and the history of various arts and their approaches to landscape.

On completion of the subject students should be able to:

- Understand the way that the Australian landscape has been perceived by its inhabitants and how those perceptions have changed with time.
- Have a developing knowledge of landscape theory.
- Trace the way practitioners of landscape planning and design have responded in their practice.
- Appreciate what changing perceptions suggest to us about landscape planning and design today.
- Outline the way that the Australian landscape has been perceived and experienced at different times in history.
- Describe ways that landscape planning and design might better respond to the cultural and natural landscape on the basis of case studies and critical analysis.

Assessment: Two written assignments of 1500 and 3500 words each.

702-617 Crisis & Complexity: 1950s Architecture

Availability: Available in 2007 and alternate years thereafter.

Credit points: 12.5

Coordinator: Professor Philip Goad

Prerequisites: 702-232 Modern Architecture B: 20th Century (*p.13*) and admission to a post-BPD course.

Contact: A one-hour lecture and two hours of tutorials per week (*Semester 2*).

Description: The formative aspects of post World War II architectural design and architectural theory. The social, theoretical and aesthetic aspects of practice in the Bay Region of California, Los Angeles, Great Britain, Scandinavia, Spain, Italy, Greece, Mexico and South America, Holland, Japan and Australia during the 1950s are examined. Concepts of monumentality and regionalism, the emerging critiques of modernism, brutalism, the writings of Team 10, issues of ornament and self-expression, conflicting attitudes toward the notion of history, reformist approaches to urbanism and mass housing, and the influence of architectural journals during the 1950s are investigated.

Assessment: Projects, seminar paper and exercises to the equivalent of not more than 5000 words.

705-317 Culture & History of Urban Planning

Note: THIS SUBJECT IS NOT OFFERED IN 2007.

Students enrol in 702-474 Investigation Program A (*p.11*) or 702-476 Investigation Program C (*p.12*). Students should liaise with a course advisor in the Faculty of Architecture, Building and Planning.

Credit points: 12.5

Coordinator: Mr Mario Gutjahr

Prerequisites: Any level-two history subject offered in the Faculty

Contact: This subject will be offered in intensive mode overseas during Semester 2 as fieldwork and study tour under the subjects Investigation Program A or Investigation Program C. Students should NOT enrol under the subject code 705-317. Students can pursue the study tour through enrolment in Investigation Program A (702-474) or Investigation Program C (702-476). Students should liaise with a course advisor in the Faculty of Architecture, Building and Planning (*Semester 2*).

Description: A cultural and historical study of cities and urban planning and design from early city cultures to 19th century urbanisation. The subject examines some significant periods in urban history - first city cultures, classical antiquity, Middle Ages, Renaissance, Baroque, Neo-classicism - in terms of the cultural and natural forces which shaped the structure and form of their great cities. Critical analyses of representative examples of urban form and style are presented. The subject considers the historical determinants of the spatial structure of cities and the physical design and form of streetscapes, public and residential buildings, gardens, squares and monuments; the evolution of urban design principles and practice in Western cultural tradition; the effects of changing attitudes on the design of cities in history.

On completion of the subject students should be able to:

- Evaluate the urban environment as the cumulative result of an historic process reflecting cultural, economic, socio-political and physical determinants and interrelationships.
- Assess and analyse pre-industrial cities in terms of the major ideas, concepts, individuals, cultural trends and styles and prototypes that have influenced modern urban planning and design.
- Recognize the historical determinants of the spatial structure of cities and the physical form of its elements; buildings, gardens, precincts, squares and streetscapes..
- Identify urban design principles and practices fundamental to (western) cultural tradition.
- Appreciate the effects of changing (western) attitudes on the design of urban form in history and on the designers themselves.

Assessment: Written and drawn assignments equivalent to 3000 words, comprising case studies (20%), a class paper (20%), questions on weekly reading (20%) plus a two hour examination (40%).

702-447 Design Approaches and Methods

Credit points: 12.5

Coordinator: Dr Greg Missingham

Contact: Three hours of lecturers and tutorials per week (*Semester 1*).

Description: The subject will critically explore approaches and methods in architectural design. It aims to undertake a careful, reflective engagement with a range of design approaches in architecture - from maximalist to minimalist - to examine their pros and cons, their ease of use, their outcomes and their utility and efficiency. The subject aims to assist students in developing a flexible and considered personal approach to architectural design so that they are able to judge which methods and approaches are useful in certain design circumstances.

On completion of the subject students should be able to:

- Clarify and consolidate their personal design predilections, tastes, working methods, approaches and ambitions.
- Engage reflectively with a range of design approaches and methods to examine their pros and cons, their ease of use, their outcomes and their utility and efficiency. These features may be examined in general terms and in relation to the individual student.
- Access a flexible, considered, "horses-for-courses" approach to architectural design.
- Make balanced judgements about the optimal design methods and approaches that are to be applied to a given circumstance.
- Make informed forecasts about the design outcomes (including advantages and/or shortcomings) that result from the application of particular design approaches.
- Appreciate that works of architecture intended to be art need to cue attitudes, responses and/or interpretations in those that use them and propose how this might be achieved.

Assessment: Journal (50%), including 3 interim submissions each of 10%. 50% for analyses of either 3 or more past design projects or a Decision Diary of current design project.

702-120 Design Communications

Credit points: 12.5

Coordinator: Ms Lindy Joubert

Contact: One hour of lectures and four hours of tutorials per week (*Semester 1, repeat Summer*).

Description: This subject introduces graphic skills appropriate to design and building. These skills are taught through a series of constructed and freehand drawing assignments essential to the design thinking process. Tutorials are held in the studio and outdoors and are developed concurrently with the graphic skills required in Construction Technology 1A and Architectural Design 1A. Emphasis is given to development of orthographic and perspective drawing, delineation and representation of form and volume. In addition, content includes two modules: digital skills and life drawing.

On completion of the subject students should be able to:

- Learn to draw and design with confidence.
- Create orthographic and perspective drawings.
- Demonstrate constructed, freehand and digital drawing techniques.

Assessment: Freehand and constructed drawing exercises held both outdoors and in the studio (63%), a three-hour perspective drawing test (7%), life drawing in class (15%), and a computer photoshop exercise (15%).

Prescribed texts: D Cooper, *Drawing and Perceiving*, Van Nostrand Reinhold, 2nd edition, 1992.

705-481 Designing the Artful Landscape

Credit points: 12.5

Coordinator: Professor Catherin Bull

Prerequisites: Completion of a level-3 Landscape Design subject OR Admission to a graduate program in Landscape Architecture plus completion of one unit of Landscape Design.

Contact: A one-hour lecture and four hours of studio and practical work per week (*Semester 1*).

Description: This studio subject concentrates on the exploration of landscapes designed as artworks. The traditions of the garden and recent interpretations of these are scrutinised as a basis for re-interpretation of the idea of the garden within the realm of contemporary culture and technology. The site or sites selected may be either privately or publicly owned and will be selected for their potential as a source of ideas and exploration (including competition sites if available). The emphasis is on conceptual and technical advancement.

On completion of the subject students should be able to:

- Demonstrate advanced skills in the integration of ideas and the development of appropriate technologies to support their design propositions.

Assessment: Progressive assessment of project and written work, equivalent of not more than 5000 words.

705-236 Designing Conserved Natural Landscapes

Credit points: 12.5

Coordinator: Dr Ray Green

Prerequisites: 705-174 Designing the Local Urban Landscape (*p.9*) plus 705-294 Plants & Planting Design (*p.14*), 705-195 Landscape Materials (*p.13*) and 705-171 Landscape Graphics (*p.12*)

Contact: Five hours of lectures and practical work per week. An average of 7.5 hours per week of non-contact time commitment is also required (*Semester 2*).

Description: This is a studio-based subject dealing with the planning, design and management of predominantly natural areas that are threatened by development pressures and require initiation of conservation measures. The sites dealt with may include derelict sites for rehabilitation or natural sites requiring protection in urban, urban fringe or rural areas. These can range in scale from 5 ha to 25 ha. Techniques of site analysis and the design and planning of landscapes possessing significant conservation value are introduced. Principles of landscape ecology, as they pertain to habitat patches, corridors and larger landscape matrices are explored in both spatial and temporal dimensions.

On completion of the subject students should be able to:

- Demonstrate understanding of how to conduct landscape analyses at various environmental scales.
- Formulate design strategies aimed at conservation of critical and significant natural, scenic and cultural landscape resources.

Assessment: Progressive assessment of project and written work, equivalent of not more than 5000 words (or equivalent). Assessments are based on practical landscape analysis, planning and design projects that are graphically, textually and/or verbally presented. Field work exercises (site analysis) that

accompany the project work are also required. Individual and group assignments, in the form of graphic and written plan(s) and/or report(s), comprise 80% of the assessment. This work is comprised of three separate submissions over the semester. Fifteen percent of the overall assessment is given for class presentations of the three assigned projects. Class attendance over the term of the semester accounts for 5% of the overall assessment.

705-174 Designing the Local Urban Landscape

Note: Formerly available as 705-274/374 Introduction to Urban and Landscape Design. Students who have completed 705-274/374 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Dr Andrew Saniga

Prerequisites: 702-101 Architectural Design 1A (*p.1*) and 702-120 Design Communications (*p.8*) or 705-112 Skills for Urban Planning and Design (*p.19*)

Contact: One hour of lectures and three hours of studio work per week (*Semester 2*).

Description: This studio-based subject addresses the design of local places such as a small urban neighbourhood, concentrating on the role of the local public domain including streets, open spaces etc. There will be evaluation of the surrounding built form and its relationship to that public domain and propositions about how that relationship should develop in the future. Basic texts in architecture, urban design, planning and environment and landscape architecture are introduced and discussed relative to the site under investigation. The processes and products of the design process from site observation and survey through analysis to design and communication (graphic, oral and written) will be introduced and applied.

On completion of the subject students should be able to:

- Demonstrate basic knowledge of the various stages of the design process.
- Demonstrate the ability to relate theoretical constructs to proposals for spatial change at a selected site.
- Succinctly communicate and defend the above relationship, through graphic, oral and written means.

Assessment: Progressive assessment of project work and written work to the equivalent of not more than 5000 words. Fieldwork and practicals will form part of the assessment.

705-235 Designing the Middle Landscape

Credit points: 12.5

Coordinator: Professor Catherin Bull

Prerequisites: 705-174 Designing the Local Urban Landscape (*p.9*) or equivalent; 705-171 Landscape Graphics (*p.12*) or equivalent knowledge of basic graphics skills and admission to the Post Graduate Diploma in Landscape Architecture. An understanding of fundamental ecological processes is assumed. Students who have previously completed subject 705-235 are ineligible to enrol for this subject.

Contact: Four hours of lectures and practical work per week. An average of six hours per week non-contact commitment is also required (*Semester 1*).

Description: This studio-based subject explores landscape and urban design principles and processes at the scale of a whole neighbourhood. Techniques of site analysis and evaluation are applied to the investigation of a current project. Students are then introduced to design and planning principles and techniques appropriate to the design development of a neighborhood with interrelated open space(s). Students are expected to support their work with well-researched documentation based upon theoretical readings.

On completion of the subject students should be able to:

- Know how to conduct multilayered landscape analyses at a neighborhood scale.
- Formulate design strategies which respond sensitively to environmental and social underpinnings.
- Understand the imperatives and impacts on the landscape of the urbanization process.
- Apply research and analysis to the process of landscape design.
- Demonstrate skills facilitating entrance into professional landscape practice.

Assessment: Progressive assessment of project and written work, equivalent of not more than 5000 words. Field work exercises are required as necessary adjuncts to the project work. Assessment is staged over the semester as follows: 1 Field Work Investigation Project (30%) [Weeks 1-5]; 1 Major Design Project in 3 stages (65%) [Weeks 6-13]; Class Participation throughout the semester (5%). Participation in class presentations is compulsory.

705-420 Designing the Sustainable Landscape

Credit points: 25

Coordinator: Dr. Sidh Sintusingha

Prerequisites: A level-3 Landscape Design subject.

Contact: A one-hour lecture and four hours of studio work and site visits per week (*Semester 2*).

Description: This subject integrates ecological and cultural studies through advanced studio-based application. The issues of sustainability as they relate to the planning and design professions are explored through the medium of a major site, with a program of guided exercises culminating in a major presentation. Students will be expected to demonstrate critical awareness of the issues and pursue with rigour a strategy of design from the conceptual to the resolved, addressing the process of balancing resource use and conservation through time. Students will present and defend their concepts to an external jury of professionals and interested parties, using appropriate selected media and techniques that demonstrate advanced command. The basis of the design (theoretical, conceptual and practical) will also be presented in report form.

On completion of the subject students should be able to:

- Critically explore the collisions of culture, ecology, and development.
- Assume that ecology is not an impediment to creativity and development.
- Be futuristic and optimistic for the future of open space at selected major sites, while being grounded on the realities of the site.
- Be committed to exploring contemporary expressions and new landscape forms.

Assessment: Progressive assessment of project and written work, and review of portfolio of all assignments set during semester, to the equivalent of not more than 10 000 words. Assessment comprises: Group work on Open Space Review and Strategy (15%); Sustainability Theory Review (10%); Research paper on ESD (Ecologically Sustainable Design) technologies / techniques (10%); Individual Major Design Project (55%); Portfolio of all assignments (10%).

702-208 Digital Design Modelling

Note: Formerly available as 702-208 Computers in Architecture. Students who have completed Computers in Architecture are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Patrick Janssen

Contact: One hour per week of computer laboratory work during semester 2 and up to 3 hours during summer semester (*Semester 2, repeat Summer*).

Description: The subject provides an overview of contemporary developments in computer aided design technologies and in architecture. A range of digital modelling applications for both design representation and design exploration will be introduced.

On completion of the subject students should be able to:

- Understand the possibilities and limitations of the different types of digital modelling applications that are available.
- Use digital modelling applications to represent and explore design possibilities.
- Share and exchange data between different digital modelling applications.

Assessment: Satisfactory completion of assigned project work (100%) to the equivalent of 5000 words..

702-402 Digital Speculations

Note: Enrolments in this subject are limited to 18 places. Please refer to the section on *Quota subjects (p.11)* for details about the selection process into this subject. Admission into this subject is limited to students enrolled in award courses in the Faculty of Architecture Building and Planning, or by special approval from the Course Coordinator.

Credit points: 12.5

Coordinator: A/Prof Bharat Dave

Prerequisites: 702-442 Digital Visualisation (*p.10*) or the equivalent.

Contact: Three hrs per week (*Semester 1*).

Description: The subject explores intersecting themes in design, digital media and interactive multimedia. The weekly lectures involve critical discussion of themes and works in digital media accompanied by hands-on projects that require students to develop and present thematic investigations using interactive media.

On completion of the subject students should be able to:

- Understand fundamental concepts in interactive digital media theory and techniques.
- Appreciation of the expressive potential of interactive digital media.
- Experimentation with and development of interactive narratives using digital media.

Assessment: Satisfactory completion of assigned project work (100%) to the equivalent of 5000 words.

702-442 Digital Visualisation

Note: Formerly available as 702-347 Digital Visualisation. Students who have completed 702-347 are not eligible to enrol in this subject. Enrolments in this subject are limited to 52 places. Please refer to the section on *Quota subjects* (p.11) for details about the selection process into this subject.

Credit points: 12.5

Coordinator: A/Prof. Bharat Dave

Prerequisites: 702-208 Digital Design Modelling (p.9), or the equivalent.

Contact: Three hrs per week (*Semester 1*).

Description: The subject explores digital visualisation techniques including rendering and animations for compositional and analytic studies of designs. The subject introduces geometric operations as building blocks of 3D compositions; explores light, material attributes and dynamic motion paths in 3D environments; and combines elements of history and theory of design with digital techniques to develop a major digital essay.

On completion of the subject students should be able to:

- Understand fundamental concepts in 3D visualisation.
- Develop stationary and animated motion paths through 3D environments.
- Use visualisation studies as an aid to design analysis and communication.
- Apply rendering concepts and techniques using material maps, lights and viewpoints in 3D scene geometry.

Assessment: Satisfactory completion of assigned project work (100%) to the equivalent of 5000 words

705-397 Documentation for Landscape Architecture

Credit points: 12.5

Coordinator: Dr Sidh Sintusingha

Prerequisites: 705-195 Landscape Materials (p.13), 705-296 Site Engineering (p.18) and 705-273 CAD in Landscape Architecture (p.5)

Contact: Four hours of lectures, seminars, tutorials and practical work a week (*Semester 2*).

Description: This subject provides instruction in construction documentation for landscape architecture. The principles of preparing plans and specifications for use in implementing landscape architectural designs are covered in this subject. This includes the preparation of site protection, demolition, grading, irrigation, layout and planting plans, construction details, written specifications and cost plans.

On completion of the subject students should be able to:

- Be familiar with typical construction documentation methods required in landscape architectural offices.
- Produce a construction documentation package for landscape architectural projects, including title sheet preparation, protection/demolition plans, grading plans, irrigation plans, layout plans and planting plans, construction details, written specifications and cost plans.

Assessment: Graphic construction documentation set for landscape architecture, written specifications and cost plans equivalent to 3000 words (60%); interim progress of graphic construction documentation set (20%); oral presentation and report equivalent to 1000 words on landscape architecture documentation packages of built projects (20%).

702-443 Environmental Design

Credit points: 12.5

Coordinator: TBA

Contact: Two hours of lectures and up to two hours of tutorials per week (*Semester 1*).

Description: Introduction to environmentally responsive and responsible architecture and urban spaces. Topics include environmental issues in architecture and urbanism, primary concepts in environmentally-responsive design, energy use in the built environment, effective use of energy resources, new environmentally-responsive strategies for architectural design and urban development, bioclimatic architecture and urbanism, bioclimatic regionalism and contextualism and the cultural significance of bioclimatic design.

Assessment: Assignments (eg exercises, essays, class presentations) equivalent to not more than 4000 words (60%) and one written test (40%).

702-465 Environmental Systems

Credit points: 12.5

Coordinator: Peter Williams and Dr. Scott Drake

Prerequisites: Admission to the B.Arch or BPC program.

Contact: Two hours of lectures and an average of one hour of seminars per week (*Semester 2*).

Description: This subject covers key elements of building services and sustainability. The services component of the subject (50%) includes refrigeration, heating and air handling plant; air distribution; energy efficiency and

documentation of air-conditioning system designs; nonresidential electrical, telecommunications, transportation and building management systems; special servicing conditions including hospitals, auditoria, industrial buildings, commercial kitchen planning and district services. The sustainability component of the subject (50%) includes design for daylighting, natural ventilation and mixed mode systems, displacement ventilation, evaporative cooling and radiant cooling systems, active solar heating and cooling systems; indoor air quality, environmental comfort and post-occupancy evaluation; principles of room acoustics and sound isolation.

On completion of the subject students should be able to:

- Demonstrate a working familiarity with both passive and active systems of environmental control used in commercial and institutional buildings.

Assessment: One two-hour examination (70%). Exercises (which may include written and drawn assignments, class presentations etc.) equivalent to not more than 3000 words (30%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

Prescribed texts: R.P. Parlour, *Building Services: A guide to integrated design: Engineering for architects*, Pymble NSW Integral Publishing (2000).

702-131 European Architecture A

Availability: Available in 2007 and alternate years thereafter.

Credit points: 12.5

Coordinator: Professor Miles Lewis

Contact: Two one hour lecture and one tutorial per week (*Semester 2*).

Description: A study of some formative aspects of Near Eastern and European architecture and urbanism from ancient origins to the late Middle Ages. Detailed studies of various periods within this broad spectrum are made, exploring issues of spatial organisation, construction, architectural theory, architectural grammar, and their physical, social and economic contexts. The European tradition in the design of the built environment is explored, by establishing an overall cultural framework within which an individual building or place can be located and assessed; and by the development of skills in information gathering and critical synthesis, essay and report writing, and visual and oral presentation techniques required for the independent interpretation of these insights.

On completion of the subject students should be able to:

- Demonstrate an understanding of the history of architecture, building, landscape architecture and urban planning from Ancient to Medieval times.
- Be familiar with the framework within which the emergent European tradition of design of the built environment can be understood.
- Integrate and utilise concepts such as architectural language and represented structure, which are useful in the analysis of architecture.
- Analyse buildings and places in terms of their context, form, planning, spatial effects, construction, function and social role.

Assessment: An essay, class papers, exercises (drawn or written), equivalent to not more than 3000 words (50%); a visual test (15%), and a two-hour examination (35%).

702-132 European Architecture B

Availability: Available in 2008 and alternate years thereafter.

Credit points: 12.5

Coordinator: Professor Miles Lewis

Semester: Not Offered

Description: A study of some formative aspects of European architecture, landscape architecture and urbanism from the Renaissance to the 18th century, and concurrent developments elsewhere in the world. Detailed studies of various periods within this broad spectrum are made, exploring issues of spatial organisation, construction, architectural theory, architectural grammar, the physical, social and economic context of development and the role of the architect in society.

On completion of the subject students should be able to:

- Demonstrate an understanding of the history of architecture, building, landscape architecture and urban planning from the Renaissance to the Enlightenment.
- Appreciate the European tradition in the design of the built environment in relation to an overall framework within which an individual building or place can be located and assessed.
- Analyse buildings and places in terms of their context, form, planning, spatial effects, construction, function and social role.
- Independently interpret the European architectural tradition.

Assessment: An essay, class papers, exercises (drawn or written), equivalent to not more than 3000 words (50%); a visual test (15%), and a two-hour examination (35%).

702-415 Facility Management

Note: Formerly available as 702-415/658 Building Economy and 702-415/658 Property Asset Management. Students who have completed 702-415/658 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Mr. Chris Heywood

Pre or Corequisites: 702-353 Statutory Valuation (*p.19*) or 702-302 Architectural Design 3A (*p.3*) or 702-316 Management of Construction 3 or equivalent

Contact: Two hours of lectures and an average of 1 hour of tutorial or seminar per week (*Semester 2*).

Description: Strategic planning and accommodation decisions. Financial analysis of capital works. Terotechnology, life cycle costing and cost benefit analysis. Development leases and maintenance contract procedures.

On completion of the subject students should be able to:

- Place property ownership in the context of the investment environment, design and construction.
- Understand life cycle study for a significant part or element of a building and be able to carry out an analysis of a whole building.
- Understand the principles of depreciation, obsolescence and other ownership issues as they apply to new and existing buildings.

Assessment: One three hour examination (60%). Assignments totaling no more than 2000 words (40%). A minimum mark of 40% must be achieved in the examination in order to pass this subject.

705-216 History of Landscape Architecture

Credit points: 12.5

Coordinator: Mr Jeremy Pike

Contact: Three hours of lectures and tutorials per week (*Semester 2*).

Description: A critical examination of the historical development of landscape architecture, including the events, social influences and personalities involved and the philosophies and theories that were developed. Included in this subject is a review of the historical theories and legacies of landscape design that are relevant to the practice of landscape architecture in Australia today. The formative evolutionary influences of natural and cultural factors as they shaped the contemporary landscape. The development of public and private landscape architecture today.

On completion of the subject students should be able to:

- Demonstrate a broad knowledge of international and historical landscape architecture from ancient times to the present day.
- Apply the principles used in historical landscape design projects to solving contemporary problems.
- Understand the formative cultural and physical influences which have affected the landscape design outcomes in the past.

Assessment: Written assignments and class tests of no more than 3000 words (60%) and a two-hour examination (40%).

702-211 Income Property Analysis

Credit points: 12.5

Coordinator: Dr Richard Reed

Prerequisites: 702-115 Introduction to Property (*p.11*)

Contact: Two hours of lectures and a one-hour tutorial and/or seminar per week (*Semester 2*).

Description: Application of financial mathematics to property valuation and analysis. Further investment theory. Property market analysis: commercial, retail, industrial, residential markets. Property investment analysis and discounted cash flow. Valuation theory and practice: the income, cost and market comparison approaches.

On completion of the subject students should be able to:

- Examine a commercial property market.
- Understand fundamentals of income property analysis.
- Interpret a discounted cash flow.

Assessment: Assignments totalling no more than 2000 words (40%) and one three-hour examination (60%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

Prescribed texts: Australian Property Institute (2007), *The Valuation of Real Estate*, Australian Property Institute, Canberra.

702-216 Introduction to Cost Management

Note: Formerly available as 702-216 Cost Management 2 and 702-216 Introduction to Construction Cost Management. Students who have completed 702-216 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Professor Jon Robinson

Prerequisites: 702-115 Introduction to Property (*p.11*)

Contact: Up to 4 hours per week (*Semester 1*).

Description: The subject is aimed at providing an overview of measurement and pricing including elementary measurement for bills of quantity, building up rates, pricing of measured work, tendering and bidding procedures.

On completion of the subject students should be able to:

- Understand the relationship between various parties involved in the building procurement process.
- Know how to apply role Australian Standard Method of Measurement to simple buildings.
- Understand the role of cost management of building works.
- Price measured building work items.
- Understand the theory and practice of competitive tendering.

Assessment: Assignments equivalent to 2000 words (30%); one three-hour examination (70%). Students are required to reach a mark of at least 40% in the exam in order to achieve a pass in the subject.

Prescribed texts: Australian Institute of Quantity Surveyors & MB-CHAA, (1990), *Australian Standard Method of Measurement of Building Works*, 5th edition, The Australian Institute of Quantity Surveyors..

702-115 Introduction to Property

Credit points: 12.5

Coordinator: Dr Richard Reed/Sara Wilkinson

Contact: Three hours per week (*Semester 2*).

Description: This subject aims to give students a basic understanding of the property market and the role property plays in a modern economy. It comprises the concept of real property and improvements to and on land; property and the economy; a broad overview of property markets and sub-markets; an introduction to investment and yield; basic financial mathematics and time value of money; stages of property development and the stakeholders; urban economics and geography.

On completion of the subject students should be able to:

- Place property in the context of the built environment, urban planning, the investment environment, design and construction.
- Appreciate the concept of real property and improvements on land.
- Gain a broad understanding of property markets and sub-markets.
- Be aware of the legal and economic aspects of property.
- Appreciate the basic concepts of investment, yield and the time value of money including the essentials of basic financial mathematics and the six functions.
- Appreciate the role of planning and the planning process in property development.
- Understand the stages of property development, life cycle and ownership of buildings.
- Recognise the importance of urban economics and geography in the growth of cities and urban areas.

Assessment: One three-hour examination (60%) and assignments totalling no more than 2000 words (40%). A minimum mark of 40% has to be achieved in the examination in order to pass the subject.

Prescribed texts: 702115, *Study Guide & Reader*, Annual publication. • Australian Property Institute, *The Valuation of Real Estate*, Australian Property Institute, Canberra, 2007.

702-474 Investigation Program A

Credit points: 12.5

Coordinator: To be advised

Prerequisites: Admission to a post-BPD program in the Faculty, and achievement of a satisfactory standard in all available subjects in the course with a direct bearing upon the study.

Contact: Individual work comprising a time commitment of approximately 12 hours per week over a period equivalent to one semester. In addition, regular weekly conferences should be held with a supervisor. An overseas intensive study tour is an alternative option within 702-474 Investigation Program A. Details of the tour and assessment is outlined under the subject heading of 705-317 Culture & History of Urban Planning (*p.8*). Please note however that students interested in this option must enrol under 702-474 and NOT under 705-317 (*Semester 1, repeat 2, Summer*).

Description: Research training in areas chosen to give the student experience in different approaches and investigation tools. A program of study will be prescribed by the first week of semester; a bibliography will normally be submitted at a prescribed date early in the semester. Regular reports and contact with the supervisor will be required throughout the semester. The reports must show evidence of the student's capacity to handle basic source material

and data, analyse it reliably, interpret it imaginatively, and present it in a coherent manner in accordance with the prescribed conventions.

Assessment: Reports to the equivalent of 5000 words to be submitted throughout the semester in accordance with the program of study.

702-475 Investigation Program B

Credit points: 12.5

Coordinator: To be advised

Semester: Semester 1, repeat 2, Summer

Additional details as for 702-474 Investigation Program A (*p.11*).

702-476 Investigation Program C

Credit points: 25

Coordinator: To be advised

Prerequisites: An overall performance of Honours 2B (70%) or higher at third-year or BArch 1 level. Admission to a post-BPD program in the Faculty and achievement of a satisfactory standard in all available subjects in the course with a direct bearing upon the study.

Contact: Individual work comprising a time commitment of approximately 24 hours per week over a period equivalent to one semester. In addition, regular weekly conferences should be held with a supervisor. An overseas intensive study tour is an alternative option within 702-474 Investigation Program A (*p.11*) or 702-476 Investigation Program C (*p.12*). Details of the tour and assessment are outlined under the subject heading of 705-317 Culture & History of Urban Planning (*p.8*) Please note however that students interested in the study tour must enrol under 702-476 and NOT under 705-317 (*Semester 1, repeat 2, Summer*).

Description: Guided research in nominated areas, selected to give the student experience in different approaches and investigation tools. A program of study will be prescribed by the first week of semester; a bibliography will normally be submitted early in the semester. Regular reports and contact with the supervisor will be required throughout the semester. The reports must show evidence of the student's capacity to handle basic source material and data, analyse it reliably, interpret it imaginatively, and present it in a coherent manner in accordance with the prescribed conventions.

Assessment: Reports to the equivalent of 10,000 words to be submitted throughout the semester in accordance with the program of study.

702-433 Issues in Public and Environmental Art

Note: Formerly available as 702-333 Issues in Public and Environmental Art. Students who have completed 702-333 are not eligible to enrol in this subject.

Availability: Available in 2006 and alternate years thereafter.

Credit points: 12.5

Coordinator: Dr Angela Hass

Prerequisites: 702-206 Architectural Design 2B (*p.2*) or 705-235 Designing the Middle Landscape (*p.9*)

Contact: An average of two hours of lectures/seminars and tutorials per week (*Semester 2*).

Description: In this course we examine the history of the use of public art within diverse contemporary societies. This will involve an investigation of the iconography of some of the dominant recurring themes in public art such as the use of the triumphal arch, obelisks, fountains, murals and memorial art. This subject explores the issues governing the use of art in the public domain and thus helps to bridge the traditional gap between artists, patrons and the public.

On completion of the subject students should be able to:

- Establish the meaning of a work of art in its community setting.
- Ascertain the viability of a work of art in the public domain.
- Develop a set of criteria for the assessment of public works of art.

Assessment: Individual reports and essays equivalent to not more than 5000 words plus a two-hour oral examination.

705-436 Landscape Assessment and Planning

Note: Formerly available as 705-436/636 Urban and Landscape Design 4B. Students who have completed 705-436/636 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Professor Catherin Bull

Prerequisites: A level-3 Landscape Design subject, plus 207-330 GIS and Remote Sensing (*p.3*) plus one unit in Environmental Studies.

Contact: A one-hour lecture and four hours of studio and field work per week (*Semester 2*).

Description: This is a studio-based subject dealing with the formulation of strategies that review the care of the broader landscape. Whole areas (scenic catchments, townships, landscape units) will be used as a basis for assessment

from multiple viewpoints including the scenic, cultural and environmental where competing values are expected. Various established techniques of landscape planning will be introduced and compared through analysis, forming the theoretical basis for the formulation of strategies for use, care and management of the public and private domain. The various applicable statutory and policy frameworks will also be introduced as a basis for defining work outcomes and appropriate methods of communication. Where possible, links will be made to GIS applications. Part of the work will be carried out in teams with an emphasis on group decision making processes and the presentation of findings/proposals.

On completion of the subject students should be able to:

- Formulate strategies for care of the broader landscape.
- Apply landscape assessment techniques and methods.
- Understand multiple landscape resources including scenic, cultural and environmental aspects of the landscape.
- Understand statutory policy frameworks related to landscape assessment.
- Apply GIS technology to landscape assessment and planning.

Assessment: Assignments, designs and reports set during the year to the equivalent of 5000 words.

705-171 Landscape Graphics

Credit points: 12.5

Coordinator: Dr Sidh Sintusingha

Contact: Two hours of lectures and three hours of seminars per week (*Semester 2*).

Description: This subject introduces manual and computer-aided graphic skills appropriate to the profession of landscape architecture. Photographic techniques useful to the representation of landscapes are also introduced. These skills are taught through a series of freehand drawings, computer graphic exercises and assignments. Techniques used to develop illustrative landscape plans, cross-sections, elevations and perspective graphics will be introduced. Graphic skills appropriate to the design and representation of a range of actual and imagined landscape settings are explored both in the field and the studio. Various graphic materials with an emphasis on producing works on paper are explored. The subject does not assume knowledge of computer graphics or graphic communication. Students are taken through the basics of these skills.

On completion of the subject students should be able to:

- Produce plan graphics.
- Produce perspective and axonometric projections.
- Produce cross-sectional graphics and color rendering techniques.
- Sketch man-made and natural elements in the landscape.
- Produce computer based graphics (using Photoshop).

Assessment: Graphic and written assignments and tutorial presentations equivalent to 3000 words. Assignments may relate to work undertaken in other subjects, specifically 705-174 Designing the Local Urban Landscape (*p.9*).

705-376 Landscape Heritage

Note: Formerly available as 705-484 Landscape Heritage. Students who have completed 705-484 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Dr. Andrew Saniga

Prerequisites: 705-216 History of Landscape Architecture (*p.11*)

Contact: Three hours of lectures and practical work per week. Attendance at up to 1 half-day excursion at a time to be stated at the beginning of the semester (*Semester 2*).

Description: The development of landscape design in Australia. The influence and work of Australian landscape designers. Concepts of natural and cultural heritage. Types of landscape heritage: Australian indigenous landscapes, public and private parks and gardens, institutional and industrial landscapes, symbolic and commemorative landscapes. Heritage legislation and organisations. Techniques for the assessment of landscape heritage. Case studies are used to illustrate the theory and practice of planning and managing sites that have cultural significance.

On completion of the subject students should be able to:

- Demonstrate a critical understanding of the landscape as a product of natural and cultural forces operating over time, including the evolution of and meanings attached to cultural landscapes.
- Demonstrate an understanding of the importance of heritage to individuals and cultural groups.
- Demonstrate an understanding of the scope and variety of heritage landscapes and the legislation and organisations which conserve and manage them.

- Demonstrate an ability to apply theory, techniques and design skills to a wide variety of heritage conservation situations, and the capacity to generate management decisions which will stand scrutiny over time.

Assessment: Individual projects and written assignments equivalent to not more than 3000 words (60%) plus a two-hour examination. (40%).

705-195 Landscape Materials

Note: Formerly available as 705-195 Landscape Technology. Students who have completed 705-195 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Dr Sidh Sintusingha

Contact: Two hours of lectures and three hours of practical work per week (*Semester 2*).

Description: This subject introduces students to the types, qualities and characteristics of landscape materials typically used in landscape construction in Australia. Students are also introduced to the techniques of use of landscape materials including standards, restrictions and local variations. Topics include masonry, concrete, timber, metals & plastics and paints & finishes. Applications in landscape construction are also covered and include paving, retaining structures, timber structures, steps & ramps, pools & ponds, drainage and lighting. Students are also introduced to typical graphic conventions of design documentation.

Assessment: Assignments equivalent to 3000 words (60%), plus a two-hour examination (40%).

705-429 Landscape Practice

Credit points: 12.5

Coordinator: Professor Catherin Bull

Prerequisites: A level-3 Landscape Design subject, plus 705-296 Site Engineering (*p.18*) or admission to a graduate program in Landscape Architecture.

Contact: Two hours of lectures and one hour of tutorials per week (*Semester 2*).

Description: This subject covers the documentation and professional practice responsibilities involved with the development of landscape architectural projects and related disciplines.

On completion of the subject students should be able to:

- Demonstrate an understanding of the body of knowledge defining contemporary practice environments.
- Assess and respond to the requirements of relevant parties.
- Implement the procedures necessary to ensure the orderly delivery of professional services.
- Manage risks with particular reference to their identification, allocation and control.

Assessment: Assignments, designs and reports set during the year to the equivalent of 5000 words.

702-632 Measured Drawing

Credit points: 12.5

Coordinator: Professor Miles Lewis

Prerequisites: Admission to a post-BPD course.

Contact: One introductory lecture followed by tutorials and fieldwork equivalent to one hour of lectures and tutorials per week (*Semester 1*).

Description: Preparation of measured drawings of an approved building or structure to prescribed standards.

On completion of the subject students should be able to:

- achieve competence in the surveying and presentation of buildings to publication / architectural standards.

Assessment: A suite of measured drawings and the associated field notes to the equivalent of 5000 words.

702-231 Modern Architecture A: 19th Century

Note: The Summer Semester option is only available to mid-year and lateral-entry students in BPD Architecture. Enrolments by other degree students will be considered by the Dean on an individual basis and the subject will only be available to such students on a full-fee paying basis.

Credit points: 12.5

Coordinator: Mr. Peter Fisher/Dr. Hannah Lewi

Prerequisites: Any level-one architectural history subject.

Contact: Two one hour lectures and a one hour tutorial per week (*Semester 1, repeat Summer*).

Description: The formative aspects of architecture from the late 18th to the early 20th centuries. Special emphasis is on British architecture and associated activity in the fields of engineering, building construction, town development and landscape architecture. Detailed studies of various periods within

this broad spectrum are made, exploring issues of spatial organisation, construction, architectural theory, architectural grammar, the physical, social and economic context of building and the role of the architect in society.

On completion of the subject students should be able to:

- Demonstrate understanding of the sources and historical development of modern architecture, building construction, landscape architecture and urban planning from the late 18th to the early 20th centuries.
- Identify representative examples of the above sources and developments.
- Appreciate the formative and early modern traditions in the design of the built environment by establishing an overall cultural framework within which an individual building or place can be located or assessed.

Assessment: An essay, a class paper, and exercises (drawn or written) (totaling 55%), and a visual test (10%), equivalent in all to 3000 words, plus a two-hour examination (35%).

702-232 Modern Architecture B: 20th Century

Credit points: 12.5

Coordinator: Dr Julie Willis

Prerequisites: Any level-1 Architectural History subject

Contact: Two lectures and one tutorial per week (*Semester 2*).

Description: The formative aspects of architecture from the early 20th century to the present day. Special emphasis is placed on European and North American architecture and associated activity in the fields of engineering, building construction, town development, and landscape architecture. Detailed studies of various periods within this broad spectrum are made, exploring issues of spatial organisation, construction, architectural theory, architectural grammar, the physical, social and economic context of building, and the role of the architect in society. The subject will also introduce the student to the field of historical critique.

On completion of the subject students should be able to:

- Demonstrate understanding of the historical development of modern architecture, building construction, landscape architecture and urban planning from the early twentieth century to the present day.
- Identify representative examples of the above developments.
- Appreciate the modern traditions in the design of the built environment by establishing an overall cultural framework within which an individual building or place can be located or assessed.
- Demonstrate skills in understanding and analysis of buildings and places in terms of their context, form, planning, spatial effects, construction, function and social role.

Assessment: An essay, a class paper, and exercises (drawn or written) (totaling 50%), and a visual test (15%), equivalent in all to 3000 words, plus a two-hour examination (35%).

Prescribed texts: 702-232, *Subject Reader*, Annual publication.

702-437 Multicultural/Postcolonial Cities

Credit points: 12.5

Coordinator: Dr Anoma Pieris

Prerequisites: Admission into the fourth- and fifth-year programs.

Contact: A two-hour lecture and discussion session followed by one hour of seminar/presentations by students. A total of 36 contact hours per semester (*Semester 2*).

Description: This subject studies multi-culturalism in the built environments of Australia and of South and Southeast Asia focusing on colonial encounters and postcolonial aspirations. Using race, class, gender and migration as theoretical starting points it explores the geographical and spatial imperatives of colonial and national projects in domestic, institutional, and urban architectures. Ideas of orientalism, nationalism, modernity, and globalization will be examined in order to raise questions regarding the nature of postcolonial space, its historic tensions and its social transformations into new landscapes for pluralism and multiculturalism. Writings of Foucault, Bhaba, Said, Spivak, Hage, Lefebvre and the subaltern studies group will be read in conjunction with literature that applies these theories to specific architectural examples. Topics include explorations of modern subjectivities and urban communities that are shaped by ethnic diversity, aboriginality, feminist geography, myth, memory and the media.

On completion of the subject students should be able to:

- Gain exposure to issues that can inform both the design and research orientations of students.
- Formulate, select or consolidate their design/research topics and projects for later years

Assessment: Selected readings, a 15 minute presentation and a 5000 word paper on a selected topic that applies theoretical ideas to a spatial or architectural exploration.

705-219 Planning and Development Management**Credit points:** 12.5**Coordinator:** Dr Alan March**Prerequisites:** 705-173 Shaping the Metropolis (*p.18*) or equivalent**Contact:** Two hours of lectures and one hour of tutorials per week (*Semester 2*).

Description: This subject analyses the theories, practices and techniques applicable in the preparation of strategic plans. It also covers the implementation of strategic plans primarily, but not exclusively, through development regulation. Whilst the subject relates specifically to the Victorian planning system, it also makes comparisons with other planning systems, especially those of the United Kingdom and USA. Noteworthy topics include theories, practices and techniques of strategic planning; implementation; public interests and goal setting; decision making; monitoring, evaluation and assessment; issues of location and spatial structure; concepts of development management; use regulation; practice of zoning; development regulation; use of revenue generation and spending powers of government; planned comprehensive development including major projects in Victoria. A number of case studies are provided by guest lecturers.

Assessment: One tutorial paper and one planning project equivalent in total to 3000 words (40%), and a two-hour examination (60%).

705-460 Planning and Urban Policy Studio**Credit points:** 12.5**Coordinator:** Ms Angela Munro**Prerequisites:** Must be in final (4th) year of BUPD.**Contact:** Up to three hours of lectures / studios per week (*Semester 1*).

Description: This subject is designed to enable students to apply knowledge and skills developed in the previous three years' study to 'live' planning issues, in depth, in a selected area - similar to the 'real world' experience of planning.. It will provide the opportunity to learn from and interact with a wide range of relevant decision-makers, each contributing to students' understanding of a major urban planning challenge in the selected locality. Response to that challenge, through group work alongside staff and involving site visits, will foster data gathering, analytical and presentation skills.

Assessment: A 1500 word scoping report putting an issue in international, national and metropolitan planning context (30%). A 1500 word outline of the possible alternative approaches to the issue (30%). A 2000 word proposed strategy (40%).

705-345 Planning Law**Credit points:** 12.5**Coordinator:** Dr Paul Mees**Prerequisites:** 705-219 Planning and Development Management (*p.14*), 100 points of Law subjects, or permission of lecturer**Contact:** Two hours of lectures and a one-hour tutorial per week (*Semester 1*).

Description: The course begins with an outline of the structure and content of the Planning and Environment Act 1987. The process for preparing and amending planning schemes is examined, followed by the structure and content of planning schemes, using a Melbourne municipal planning scheme as a case study. The planning permit process is discussed, with particular attention to factors affecting the exercise of discretion by planning authorities. This leads to an examination of the appeal process and the Victorian Civil and Administrative Tribunal, judicial review of planning-related decisions and issues of enforcement. The course concludes with an examination of heritage controls.

Assessment: Written assignments not exceeding 3000 words (40%) and a two-hour examination (60%)

Prescribed texts: D.Eccles & T.Bryant, *Statutory Planning in Victoria*, 3rd Edn. 2006.

705-325 Planning the Productive City**Credit points:** 12.5**Coordinator:** Professor Kevin O'Connor**Prerequisites:** 705-219 Planning and Development Management (*p.14*)**Contact:** Two hours of lectures and one tutorial per week (*Semester 2*).

Description: This subject explores ways that the economic production of goods and services shapes the vitality, structure and planning agenda of cities. It uses an economic sectoral perspective to demonstrate how sectors like manufacturing, transport, services and creative activities have locational impacts in certain cities and within selected parts of cities. Complex planning issues, requiring judgements about the competing demands of economic development and social needs, are associated with the growth and decline of sectors in their particular urban contexts. Special attention will be paid to innovation

in city development, and to the planning of infrastructure in airports, seaports and telecommunications.

On completion of the subject students should be able to:

- Address complex planning issues in particular urban economic contexts.

Assessment: Tutorial papers not exceeding 1000 words in total (20%); an essay not exceeding 2000 words (40%); and a two-hour examination (40%).

705-358 Planning Theory and Governance**Credit points:** 12.5**Coordinator:** Dr Alan March**Prerequisites:** Must be enrolled in the 3rd year, or above.**Contact:** 1.5 hours of lectures and a 1.5 hour seminar per week (*Semester 1*).

Description: Theories of planning, values, power and urban governance are addressed. Different ways in which policies shape the city are explored. Urban governance encompasses the provision of infrastructure for the city and the delivery of services: the roads, tracks, pipes, wires, electromagnetic towers, forms of communication and social and commercial services. These concepts are linked to the analysis of case studies of different cities, their forms of governance and approaches to planning. Examples are studied that have important lessons in planning both for Australian cities and for the new developing cities of the Asia Pacific region.

On completion of the subject students should be able to:

- Demonstrate profound understanding of Australian and European planning practice as it is connected with urban governance and the changing city.

Assessment: 705-358: Class papers to a maximum of 3000 words (60%), a research essay of maximum 2000 words (40%). (Note the postgraduate version of the subject, 705-658, will include more advanced tutorial exercises with a separate tutorial class, and more advanced research essay topics).

705-294 Plants & Planting Design**Credit points:** 12.5**Coordinator:** Mr Jeremy Pike**Contact:** Three hours of lectures plus practical work per week (*Semester 1*).

Description: Trees, shrubs, climbers and ground cover plants, and factors influencing their growth and use. Ecological and botanical considerations in landscape design. The botanical and ecological context of indigenous and exotic plants commonly used in landscape design in Melbourne; cultural and aesthetic issues pertaining to the use of plants in landscape design; the tree and plant growing industry in Melbourne. Students will prepare a small number of landscape designs to acquire experience in synthesising ecological, botanical, cultural and aesthetic factors in designing with nature.

On completion of the subject students should be able to:

- Identify over 200 plants commonly seen and used in Melbourne.
- Undertake and document a planting design.
- Demonstrate basic horticultural knowledge and skills in the selection, use and maintenance of plants.

Assessment: Written assignments and plant identification tests of no more than 5000 words (examination 30%, assignments 45%, tests 25%).

702-446 Political Economy of Design**Credit points:** 12.5**Coordinator:** Dr Paolo Tombesi**Prerequisites:** Admission to a post-BPD degree program within the Faculty.**Contact:** Up to four hours of lectures and seminars per week (*Semester 1*).

Description: The objective of this subject is to position and discuss architecture in relation to broader industrial ecologies. Rather than concentrating solely on the stylistic or sociological aspects of the discipline, the discussion reviews the industrial elements that are likely to affect programmatic objectives, formal directions and technical outcomes of building projects. The subject has a lecture component and a research component. The lecture component provides a general theoretical framework largely borrowed from political economy, industrial and innovation theory, and labour studies literature, but adapted to the analysis of the design and building sector. The research component seeks to apply the elements of this framework to a specific situation. The research topic changes every year and relies on students' active contribution. Readings and references for the lecture segment are provided by the coordinator, whereas most of the documentation for the research program will be organized and compiled by the students.

On completion of the subject students should be able to:

- Identify and engage with the various types of environmental conditions that have an impact upon the role of the design professions, the configuration of the building industry and the nature of its products in any given region.

- Demonstrate a critical understanding of the relationship between design practice, cultural values, spatial needs and industrial landscapes.

Assessment: Class participation (15%); gathering of research-specific data (30%); essay to the equivalent of not more than 3500 words (55%).

702-117 Principles of Construction Management

Credit points: 12.5

Coordinator: Ms Valerie Francis

Contact: Two hours of lectures and one hour of tutorial per week (*Semester 1*).

Description: This subject provides students with a broad overview of the construction industry. Students are introduced to theory relating to management and project management and how it applies to the construction industry. Students develop an understanding of the roles and responsibilities of various industry stakeholders, the project life cycle concept, project procurement systems as well as an insight into estimating, tender preparation and the selection of the main contractor. In addition, students address the importance of teamwork and communication to the industry.

On completion of the subject students should be able to:

- Understand the role of the construction industry in the economy and the key characteristics of the industry.
- Appreciate the role of construction professionals and be aware of their responsibilities during the life cycle stages of a building project.
- Understand the basic theories of management and project management.
- Identify factors affecting the selection of the project procurement systems and selection of the main contractor.
- Understand the general principles of estimating, tendering practices and building contracts.

Assessment: One three-hour examination (60%) and assignments to the equivalent of not more than 2000 words (40%). Students must achieve a minimum mark of 40% in the exam in order to pass the subject.

Prescribed texts: 702-117, *Subject Guide and Reader*, Annual publication.

702-213 Principles of Property Valuation

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-115 Introduction to Property (*p.11*) (formerly Property 1)

Contact: Three hours of lectures and one hour of tutorials each week throughout the semester (*Semester 1*).

Description: Building upon the broad understanding of the role of property in the built environment developed in Introduction to Property, Principles of Property Valuation focuses on the consolidation of these themes and their expansion into valuation theory and practice in the contemporary economy. More specifically, topics include: Value and market value; The property market; Methods of valuation; The valuation process; Factors influencing value; Direct comparison method; Data collection; Market and sales analysis; Procedures for determining and reporting value; Introduction to investment valuation methods; Direct capitalisation - valuation of a property leased at market rent.

On completion of the subject students should be able to:

- Understand the nature and role of the valuation profession, the property market and valuation methods.
- Develop skills, competencies and knowledge for selecting analysing and synthesizing material of relevance to the conduct of property valuation in academic and professional contexts.
- Access a comprehensive range of information sources, relevant to the valuation of property.
- Analyse and criticise relevant material in an appropriate manner, supported by reasoned argument and generate independent opinions of value.
- Prepare, arrange and present valuation reports at an appropriate standard for academic and professional purposes.

Assessment: One two-hour examination (40%) and 2 group assignments (25% & 35%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

Prescribed texts: 702-213, *Study Guide and Reader*, Annual publication. • Australian Property Institute, *The Valuation of Real Estate*, Australian Property Institute, Canberra, 2007. • Australian Property Institute, *Professional Practice*, Australian Property Institute, Canberra (current edition).

702-413 Project Administration

Credit points: 12.5

Coordinator: Professor Jon Robinson

Contact: Three hours of lectures and seminars per week (*Semester 1, repeat 2*).

Description: This subject aims to give students the basic principles and practice of administering building and construction projects in accordance with their respective conditions of contract. It comprises an introduction to conditions of contract, insurance and security, administration of the contract, defaults and disputes, subcontracts, variations, delays and extensions, interim valuations and completion of the project.

On completion of the subject students should be able to:

- Broadly understand the rights and responsibilities of the parties to a building and construction contract.
- Demonstrate a general knowledge of the mandatory contractual procedures for administering project scope, quality cost and time.
- Have a basis upon which to build practical working skills in all areas of contract administration during the construction phase of a building project.

Assessment: One 3-hour examination (60%) and assignments to the equivalent of 3000 words (40%). A minimum mark of 40% must be achieved in the examination in order to pass the subject.

Prescribed texts: Goldfayl, G. (2004), *Contract Administration*, UNSW Press. • 702-413, *Study Guide and Reader*, Annual publication.

702-356 Property Agency and Marketing

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-354 Property Law (*p.16*)

Contact: Two hours of lectures and one hour of tutorials per week (*Semester 1*).

Description: This subject aims to give students an understanding of the processes and issues relating to the transfer of freehold and leasehold interests in property with a commercial agency focus within the current legal and market context. The subject will be presented under three main themes: 1) Real estate agency structures - legislation and agency practice, licensing, codes of ethics, consumer protection, 2) The management of an agency practice including trust accounts and 3) Marketing and markets.

On completion of the subject students should be able to:

- Understand the role of the real estate agent in the Victorian property market context.
- Detail the procedures involved in undertaking a sale by private treaty and by auction.
- Be aware of the legal, financial, economic and managerial aspects of agency practice.
- Access, interpret and communicate property market transaction data.

Assessment: One two hour examination (50%) and assignments (50%) totaling not more than 3000 words per student. A minimum grade of at least 40% must be achieved in the final examination to pass the subject.

702-414 Project Management

Note: Formerly the course 702-414 Project Management was combined with 702-656 Project Management (Masters). Students who have done either of these subjects are ineligible to enrol.

Credit points: 12.5

Coordinator: Dr. Hemanta Doloi

Prerequisites: Admission to a post-BPD program in the Faculty

Contact: Three hours per week (*Semester 2*).

Description: Brief overview of project management including project organisation project team, project manager, project definition, inception and finalisation. Project management functions including scope management, time management, cost management, quality management, risk management, procurement management. Project management processes including project definition, project integration, project implementation and control and project close-out. Students are expected to work in groups and assignments are to be developed based on real case studies. The overall aim is to develop a complete project management plan for a given project considering all the fundamental aspects of the project management. Emphasis will be on the principles of scope identification, work breakdown, time estimation and scheduling, cost breakdown, quality assurance and quality control systems, risk management plan, procurement and contract administration including various managerial controlling and monitoring techniques.

On completion of the subject students should be able to:

- Demonstrate an introductory level knowledge of scope, cost, time, quality, risk, procurement and integration management aspects of projects generally.
- Develop underpinning knowledge of management functions as applied to projects.
- Provide practical examples and opportunities to apply scope, time, cost, quality, risk and procurement management to projects.
- Apply tools in a project environment.

• Develop a systematic framework for management function on projects.
Assessment: Staged assignments totaling 4000 words (60%) and one two hour examination (40%). A minimum grade of 40% must be achieved in the examination in order to pass the subject.

Prescribed texts: 702414, *Study Guide and Reader*, Annual publication. • JR Turner, *The Handbook of Project Based Management*, McGraw Hill. • Meredith & Mantel, *Project Management: A Managerial Approach*, Wiley & Sons. • PMBOK, *Project Management Body of Knowledge*, Project Management Institute.

702-418 Property Development

Note: Formerly available as 702-418/659 Land Economy and 702-418/659 Property Development and Investment. Students who have completed 702-418/659 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Sara Wilkinson/Dr Richard Reed

Pre or Corequisites: Admission to a post-BPD program or permission of the subject co-ordinator.

Contact: Two hour lecture and one hour tutorial per week. Computer laboratory work as required (*Semester 1*).

Description: This subject aims to give students the knowledge and skills to be able to operate as a property, design or construction professional in the area of development advice and decision-making in property development. It comprises the development process and the major players; time value of money; the decision to build; property market research and analysis; appreciation of investment and market valuation methods; development appraisal including residual analysis and cash flow modelling; price and worth; risk, return and risk analysis.

On completion of the subject students should be able to:

- Understand the important factors influencing the decision to build and develop a property.
- Place property in the context of business organizations, property, urban planning, design, construction and quantity surveying.
- Identify a site or property suitable for a major property development.
- Complete a development appraisal for a major property development.
- Model property development cash flow.
- Apply industry standard software to the development process.
- Evaluate the viability of property development proposals.

Assessment: One three-hour examination (50%) and assignments totalling not more than 3000 words (50%). A minimum mark of 40% must be achieved in the examination in order to pass the subject.

Prescribed texts: 702418, *Study Guide and Reader*, Annual publication. • Australian Property Institute, *The Valuation of Real Estate*, Australian Property Institute, Canberra, 2007.

702-354 Property Law

Credit points: 12.5

Coordinator: Prof. Jon Robinson

Prerequisites: 702-211 Income Property Analysis (*p.11*) (formerly 702-211 Property 2)

Contact: Two hours of lectures and up to one hour of tutorials per week (*Semester 1*).

Description: Overview of the legal system in Australia. The concept of property and ownership in Australia. Comparative land policy. The general law and the Torrens land registration systems. The legal nature of land: improvements, fixtures and chattels. Encumbrances: easements, restrictive covenants, right. Co-ownership: subdivision, joint tenancy in common. Licenses and leases. Contract, tort and agency. Occupier's liability. Impact of heritage legislation.

On completion of the subject students should be able to:

- Analytical skills - an enquiring and analytical approach to the conduct of legal aspects associated with property.
- Problem solving skills - an increased quantum of knowledge of issues and practice relevant to property law.
- Communication skills - a greater facility to generate and communicate property law issues at an acceptable, introductory standard.

Assessment: Staged assignments totaling 2000 words (40%) and one three-hour examination (60%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

702-355 Property Management

Note: Formerly available as 702-355 Property Asset Management. Students who have completed 702-355 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: TBA

Prerequisites: 702-211 Income Property Analysis (*p.11*) or 702-204 Architectural Design 2A (*p.2*)

Contact: Two hours of lectures and one hour of tutorials per week (*Semester 2*).

Description: An introduction to property management. Building operations and maintenance; information bases. Building pathology. Asset management; facilities management and planning. Sustainability issues in property management.

Assessment: Staged assignments totaling 3000 words (50%) and one two-hour examination (50%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

Prescribed texts: 702-355, *Study Guide and reader: Property Management*, Annual publication.

702-339 Property Resource Analysis

Coordinator: Professor Jon Robinson

Prerequisites: 702-211 Income Property Analysis (*p.11*)

Contact: Three hours of lectures and tutorials per week (*Semester 2*).

Description: The subject examines the property valuation and investment environment with particular emphasis on the application of quantitative methods and the analysis of real property. Topics covered include review of discounted cash flow, property finance and financial analysis, after tax property analysis, specialised properties, the property as a business, property securitization and property market sectors.

At the conclusion of this subject, students should be able to:

- model property valuation and investment financial flows
- understand the principles and techniques of property and asset valuation and analysis
- understand the effects of taxation and finance on property investment and development.

Assessment: One three hour examination (70%). Assignments totalling 2000 words (30%).

Prescribed texts: Australian Property Institute, *The Valuation of Real Estate*, Australian Property Institute, Canberra, 2007.

702-334 Rendering as a Graphic Communication

Note: Enrolments in this subject are limited to 48 places. Refer to the section on *Quota subjects (p.11)* for details about the selection process into this subject. Admission into this subject is limited to students enrolled in award courses in the Faculty of Architecture Building and Planning.

Credit points: 12.5

Coordinator: Mr Lisle Rudolph

Prerequisites: 705-171 Landscape Graphics (*p.12*) or 702-123 / 702-121 / 702-120 Design Communications (*p.8*)

Contact: Three hours of studio demonstration and practical workshop sessions per week (*Semester 2*).

Description: Demonstrations and studio practice in advanced techniques of architectural rendering, ranging from conceptual drawing to presentation drawings of buildings in their contexts. Different media will be used, and compared for their potential to communicate ideas at various stages in the design process.

On completion of the subject students should be able to:

- Understand the basic laws of perspective and apply these readily in free-hand drawing.
- Produce finished architectural renderings in colour suitable for presentations to others.
- Understand the geometry of casting shadows and to use this skill to show form in architectural rendering.
- Appreciate the importance of light as an active element in architecture through the rendering of forms in light, shade and shadow.
- Use different drawing projection systems including isometric and axonometric projections.
- Draw simple entourage (mainly people, vegetation and cars) to give a sense of scale and context in rendering.
- Use color appropriately in rendering.
- Use skills in graphic composition.
- Handle techniques for different manual graphic media including graphite and coloured pencil, marker pens and watercolour.
- Identify the essential visual characteristics of buildings and the spaces around them before attempting to communicate these graphically.

Assessment: Two major renderings and a review of a folio of all workshop exercises equivalent to not more than 5000 words.

702-574 Representing Place**Credit points:** 12.5**Coordinator:** Dr Hannah Lewi**Prerequisites:** 702-403 Architectural Design 4A (*p.3*) and 702-404 Architectural Design 4B (*p.3*)**Contact:** Three hours of seminars per week (*Semester 1*).**Description:** This subject explores the documentation and representation of particular sites that are related to Design 5 or of the students own choice. The subject is considered highly related to design methodologies, but deals with design considerations outside the design studio context. Sites are explored through a number of themes and representational techniques. These themes are further investigated through the subject reader, lectures and seminar discussions. Equal emphasis is placed on theoretical problems of understanding contemporary contexts and representational techniques for documenting specific places. The major submission requires a well researched and presented study of a complex site.

On completion of the subject students should be able to:

- Demonstrate awareness in context analysis.
- Achieve a deeper understanding of places and design interventions and the symbiosis between the two.
- Be aware of varied methodologies of representing, documenting and analysing particular sites through lectures, seminar discussions, reading and project based analysis.
- Develop a detailed documentation of a site.

Assessment: Reports to the equivalent of 5000 words.**Prescribed texts:** 705-574, *Subject Reader*, Annual publication.

705-444 Research Methods (Honours)**Credit points:** 12.5**Coordinator:** Dr Ray Green**Contact:** Three hours of lectures and seminars per week. Five hours of non-contact time per week plus consultation with individual discipline supervisors (*Semester 1*).**Description:** The subject introduces students in the Faculty of Architecture, Building & Planning to the skills necessary to conduct rigorous and original research and effectively communicate their research findings in a clear and systematic manner. The subject concentrates on how to select and refine a research topic, develop appropriate research questions/hypotheses and select and use appropriate research methods. The subject incorporates formal instructional lectures, examples of research projects and seminar discussions of relevant research literature. Three general areas of knowledge are addressed - relevant research approaches, commonly used data collection and analysis methods and thesis writing skills. Research methodologies currently employed in the Faculty are introduced and discussed. Students will need to discuss details of specific methods and their use with their supervisors. Students will be provided opportunities to discuss their research projects and get feedback over the semester.

On completion of the subject students should be able to:

- Design an appropriate research program for their Research Project (which is part of various Honors degree programs).
- Propose a research topic and survey the relevant literature.
- Use results of a literature search to refine research questions and subsequently select appropriate research methods.
- Demonstrate an understanding of various research approaches and paradigms and methods of data collection and analysis.
- Implement thesis writing skills.

Assessment: Progressive assessment of written work and oral class presentations equivalent of not more than 5000 words. Assessments are based on statements of rationale and aims of individual research projects (500 words), development of research questions and /or hypotheses and a major paper that outlines the student's research design and selection of method(s) (2500 words). Students are also required to prepare a draft literature review (2000 words) in order to be permitted to embark on a research project subject in semester 2.

705-455 Research Project A (Honours)**Credit points:** 12.5**Coordinator:** To be advised**Prerequisites:** 705-444 Research Methods or approval of the Co-ordinator**Contact:** Ten hours per week of independent work in which a research project is undertaken and a written report prepared under the supervision of an assigned supervisor (*Semester 1, repeat 2*).**Description:** Students undertake a research project over the semester, thereby gaining experience in posing research questions, searching the literature and in using basic research methods for collecting and analysing data and in pre-

senting the results in a competently written research project report. Regular meetings will be held with the supervisor during the semester for gaining advice on the study topic and technical matters. Material prepared in Research Methods (705-444) is expected to form an integral part of the final research report.

Assessment: A 10,000 word research project report. However, the 5000 words of assignments produced for Research Methods (705-444) are expected to be refined and incorporated as part of the final report. Students must also orally present their projects in mid-semester. Although this mid-year seminar is not assessed, the report will not be accepted for examination unless a presentation has been made. Appropriate examiner(s) other than the supervisor will examine the final research report.

705-401 Research Project C (Honours)**Note:** To be awarded a result in this subjects students are required to enrol in both semesters 1 and 2**Credit points:** 12.5**Coordinator:** Dr Kath Phelan**Prerequisites:** Admission to an honours course. An overall performance of Honours 2B (70%) or higher at third year or B.Arch 1 level.**Contact:** Regular meetings with the supervisor over two consecutive semesters of enrolment (*Semester 1, repeat 2*).**Description:** Students will plan and carry out an independent research project on a topic of relevance to their degree course. The project will involve a critical review of the relevant literature, setting the objectives of the study, selecting an appropriate theoretical framework and research method, specifying the research questions, collecting and analysing data, and reporting results in a coherent document.

On completion of the subject students should be able to:

- Demonstrate a capacity for critical research and analysis on a topic relevant to their course of study.

Assessment: A literature review (due at the end of the first semester of enrolment - hurdle requirement only, not graded); a minor thesis of not more than 10,000 words (due at the end of the second semester of enrolment). The thesis comprises 100% of the assessment.

705-461 Research Project E (Honours)**Credit points:** 12.5**Coordinator:** To be advised**Prerequisites:** Admission to an honours course.**Contact:** Regular meetings with the supervisor over two consecutive semesters of enrolment (*Semester 1, repeat 2*).**Description:** Students will plan and carry out an independent research project on a topic of relevance to their degree course. The project will involve a critical review of the relevant literature, setting the objectives of the study, selecting an appropriate theoretical framework and research method, specifying the research questions, collecting and analysing data and reporting results in a coherent document. Students must enrol in this subject twice over two consecutive semesters as it comprises one half of a full-year research project.

On completion of the subject students should be able to:

- Demonstrate a capacity for critical research and analysis on a topic relevant to their course of study.

Assessment: A literature review (due at the end of the first semester of enrolment - hurdle requirement only, not graded). A minor thesis of not more than 10,000 words due at the end of the second semester of enrolment. The thesis comprises 100% of the

705-462 Research Project F (Honours)**Credit points:** 12.5**Coordinator:** To be advised**Prerequisites:** Admission to an honour course.**Contact:** Regular meetings with the supervisor over two consecutive semesters of enrolment (*Semester 1, repeat 2, Summer*).**Description:** Students will plan and carry out an independent research project on a topic of relevance to their degree course. The project will involve a critical review of the relevant literature, setting the objectives of the study, selecting an appropriate theoretical framework and research method, specifying the research questions, collecting and analysing data and reporting results in a coherent document. Students must enrol in this subject twice over two consecutive semesters as it comprises one half of a full-year research project.

On completion of the subject students should be able to:

- Demonstrate a capacity for critical research and analysis on a topic relevant to their course of study.

Assessment: A literature review (due at the end of the first semester of enrolment - hurdle requirement only, not graded). A minor thesis of not more than

10,000 words due at the end of the second semester of enrolment. The thesis comprises 100% of the assessment.

705-313 Residential Community Design

Credit points: 12.5

Coordinator: Dr Kath Phelan

Contact: Three hours per week (*Semester 2*).

Description: Planners are integral in the process of designing, reviewing and approving new housing developments. This subject explores the challenges of creating new communities in three contexts: the inner city, the middle suburbs and the fringe. Through a workshop format students will respond to a set of requirements for each of these areas within metropolitan Melbourne with site analysis and preliminary layouts. These three exercises will highlight the complex nature of developing new residential areas and the need for planners to understand and critically evaluate housing proposals. The semester will conclude with a discussion of the three geographical contexts in relation to state housing policies and the possibilities for their implementation through schemes such as those prepared by the class.

At the completion of the subject the student will be able to:

- conduct analysis of factors affecting and affected by housing developments
- synthesise such analysis through systematic site designs for new housing
- understand different housing responses in varying urban contexts across metropolitan areas
- recognise the challenges and opportunities for state government to develop comprehensive housing policies.

Assessment: Three written group reports accompanied by plans and oral presentations (30% each), individual participation (10%).

702-219 Science and Services

Credit points: 12.5

Coordinator: Mr Peter Williams and Dr Scott Drake

Contact: Three hours of lectures, seminars and tutorials per week (*Semester 2*).

Description: Services (50% of course content): mechanical, electrical and hydraulic services for residential scale buildings, building fire and security control, the planning of services intensive spaces. Thermal Performance and Lighting (50% of course content): human comfort, heat flow, transmission, infiltration, control of solar impact, building envelope performance, heating and cooling loads, energy efficiency, daylighting, perceptions, measurement and control; artificial lighting, concepts, design calculations.

On completion of the subject students should be able to:

- Direct the work of specialist professional counterparts in services industries.
- Calculate energy efficiency of heating and cooling of buildings.
- Understand how to apply shading to control solar gain.
- Calculate daylighting in buildings.

Assessment: One two-hour examination (70%), exercises - including written and drawn assignments - and class presentations equivalent to not more than 3000 words (30%).

702-434 Sculpture Workshop

Note: Formerly available as 702-313 Sculpture Workshop. Students who have completed 702-313 are not eligible to enrol in this subject. Available for BArch and BArch/BPC students only. Enrolments in the subject are limited. Please refer to the section on *Quota subjects (p.11)* for details about the selection process into this subject.

Credit points: 12.5

Coordinator: Dr Angela Hass

Contact: Three hours of tutorials with practical work per week (*Semester 2*).

Description: This workshop provides a hands-on exploration of the techniques and processes involved in the creation and siting of a sculptural work of art: modelling with clay and plaster, bronze casting, welding etc. There will be a charge made for the materials used in this subject.

On completion of the subject students should be able to:

- Understand the practical processes involved in creating a sculpture.
- Develop criteria for siting a sculpture in the public domain.
- Analyze some of the layers of meaning that public works of art communicate.

Assessment: Sculptural project work equivalent to 4000 words (80%) and a written report not exceeding 1000 words (20%).

705-173 Shaping the Metropolis

Credit points: 12.5

Coordinator: Dr. Kath Phelan

Contact: Twenty-four one-hour lectures and twelve one-hour tutorials (*Semester 1*).

Description: Metropolitan areas have changed substantially over the past 100 years. This subject examines the ideas, values and forces which influenced the physical growth and development of urban areas in the developed world. Focusing on Australian cities with specific reference to Melbourne, and comparing these to US and UK examples, the subject considers the role of urban planners in the social, economic, political and environmental processes of urban change. The subject provides opportunities for students to speculate about the future of our cities in the 21st century while considering the repetition of similar themes, problems and even proposed solutions through the 20th century.

On completion of the subject students should be able to:

- Be familiar with the growth and development of urban areas and the role of urban planners in those processes in the developed world during the 20th century.
- Speculate on the future of metropolitan areas for this century based on themes which repeated throughout the previous century.
- Competently conduct research using primary and secondary source material.
- Confidently present their research findings verbally.
- Produce thorough written arguments and analysis rather than purely descriptive work.

Assessment: One introductory assignment, tutorial paper and final essay equivalent in total to 3000 words (60%), class participation (10%) and one two-hour examination (30%).

705-357 Shopping and Retail Planning

Credit points: 12.5

Coordinator: Mr Nigel Flannigan

Prerequisites: 705-219 Planning and Development Management (*p.14*) or equivalent

Contact: 24 one-hour lectures and 12 one hour tutorials during the semester (*Semester 1*).

Description: This subject is about planning a system for the distribution of goods and services within urban areas. The shopping and retailing system is analysed from both the demand side (shopping) and the supply side (retailing). Analyses are made of the interplay between private sector developers and public sector planners for the provision of shopping and retailing opportunities in urban centres. It covers the theory, practice and techniques for the planning of shopping facilities. Comparisons are made between the Australian, UK and North American contexts. Appropriate survey and analytical techniques are introduced including retail distribution, market analysis, forecasting demand for goods and services using the Australian Bureau of Statistics household expenditure survey, psychographic market segmentation and translation of consumer demand into floor space needs and provision. Consumer trends and government policies are analysed. Topics include the micro-economic order in shopping districts and centres, the development of corporate shopping centres and the revitalization of traditional shopping streets.

On completion of the subject students should be able to:

- Define the probable trade area of a shopping destination.
- Determine the likely demand for goods and services of a trade area.
- Analyse the potential retail expenditure of a defined population.
- Assess the business mix and the amount of retail floorspace (by retail segment) able to be sustained in a shopping destination.
- Devise public policies and programs to achieve an appropriate amount and spatial structure of shopping destinations across an urban area.
- Analyse and plan the internal structure of individual shopping destinations.

Assessment: A maximum of two tutorial papers and a planning project equivalent to not more than 3000 words in total (60%), plus a two-hour examination (40%).

705-296 Site Engineering

Credit points: 12.5

Coordinator: Mr Jeremy Pike

Prerequisites: 705-195 Landscape Materials (*p.13*)

Contact: Three hours of lectures per week plus practical work (*Semester 1*).

Description: Topics include the grading of complex sites; surface water drainage, management and disposal; land reclamation and the rehabilitation of degraded soils and sites; erosion controls; sporting and recreational facilities; and design of simple structures; Earthwork computation and site survey techniques.

On completion of the subject students should be able to:

- Demonstrate an understanding of site engineering issues.
- Demonstrate an understanding of land reclamation and rehabilitation issues and techniques.
- Demonstrate an understanding of techniques and coordination of site services and drainage.
- Possess knowledge of emerging technologies in these areas and demonstrate the skills to critically assess these.
- Display skills in the design, documentation and coordination of all aspects of site works.

Assessment: Written and graphic assignments equivalent to not more than 3000 words (60%) and a two-hour examination (40%).

705-112 Skills for Urban Planning and Design

Credit points: 12.5

Coordinator: Ms Fiona McKenzie

Contact: Two hours of lectures and up to three hours of studio work or computer laboratory per week (*Semester 1*).

Description: It is assumed that students will have basic computer skills in Microsoft Word, email, internet, spreadsheets (Excel). The subject develops students' ability to search for and analyse various kinds of urban planning data and to present material effectively in graphic form, in writing, in statistical form and in the spoken word. It covers interpretation (and production) of topographic maps, plans and design concepts; aerial photography; introduction to desktop mapping (*MapInfo*); thematic mapping, Census and Statistical Data: time series and other statistical data sources (ABS), *CData96* and *CLib96*. Introduction to GIS (Geographic Information Systems). Statistics for urban planning: data sources, sampling, questionnaires, variables, frequency distributions, generalisations, probability and sampling, binomial distribution, normal distribution, tests of significance, test hypothesis, chi-square distribution. Students will be introduced to and practise graphic communication and design skills in a series of studio-based exercises intended to apply the lecture material.

Assessment: Weekly exercises including graphic communication and design, computer graphics, and the application of interactive web-based and other course material, the equivalent of 4000 words (80%), plus a one-hour class test in the last week of semester (20%).

705-337 Social Planning for Health

Credit points: 12.5

Coordinator: Ms Bonnie Rosen

Prerequisites: A level 2 Human Geography or Sociology subject such as 121-026 The Mobile World: Migration and Tourism (*p.3*) or 166-084 Global Cities: Sociological Explorations. There will be a strong emphasis on learning by doing group work projects for 'real life' clients, so students who feel uncomfortable about advanced level independent group work should not undertake this subject.

Contact: Two hour lecture and one hour tutorial per week (*Semester 1*).

Description: Social planning is a public policy activity creating opportunities for the development of individuals and communities through shaping and modifying the built environment. The aim of this subject is to consider how planning policy and practice can best respond to social, economic and cultural diversity within the population it serves and develop spaces that promote health and well-being, reduce inequalities and contribute to social justice.

Assessment: Individual and group assignments, including oral presentations and written work, of not more than 5000 words: group project (55%); assignment (10%); final essay (30%), presentation (5%).

702-353 Statutory Valuation

Credit points: 12.5

Coordinator: Dr Richard Reed

Prerequisites: 702-211 Income Property Analysis (*p.11*)

Contact: Two hours of lectures and up to two hours of tutorials and seminars per week (*Semester 1*).

Description: Valuation for statutory purposes including rating. Examination of all taxes affecting property including land tax. Compulsory acquisition and compensation.

On completion of the subject students should be able to:

- Demonstrate a sound understanding of taxation affecting property.
- Prepare a compensation report.
- Be involved in a moot court.

Assessment: Assignments totalling no more than 2000 words (40%) and one three-hour examination (60%). A grade of at least 40% must be achieved in the final examination in order to pass the subject.

Prescribed texts: Australian Property Institute, *The Valuation of Real Estate*, Australian Property Institute, Canberra, 2007.

702-238 Structural Systems

Note: Formerly available as 702-238 Construction Technology 2B. Students who have completed 702-238 are not eligible to enrol in this subject.

Credit points: 12.5

Coordinator: Blair Gardiner

Prerequisites: 702-137 Construction Technology 1A (*p.6*)

Contact: Two hours of lectures and two hours of tutorials, studio and laboratory work, or site visits per week (*Semester 2*).

Description: This subject covers principles informing the selection of appropriate structural systems including design of elements and of determinate structures and an introduction to indeterminate structural analysis; deflections; structural design and the role of the consultant engineer; the application of structural design codes including loading codes. The subject also covers soil mechanics, including the characteristics and physical properties of rocks and soils and their influence on the design of building footings and building behaviour.

On completion of the subject students should be able to:

- Demonstrate an understanding of structural systems and soil mechanics.
- Apply this knowledge to building design.

Assessment: Assignments (eg. exercises, essays, class presentation) equivalent to not more than 3000 words (20%) and one examination of two hours (80%). Exercises may relate to work taken in other subjects.

702-308 Structures and Construction 3A

Credit points: 12.5

Coordinator: Mr Peter Ashford

Prerequisites: 702-237 Construction Technology 2A (*p.7*) and 702-238 Structural Systems (*p.19*) (formerly Construction Technology 2B)

Contact: Four hours of lectures, seminars, tutorials and site visits per week (*Semester 1*).

Description: This subject is an extension of the structural behaviour, design and construction detailing covered in Construction Technology 2A and Construction Technology 2B/Structural Systems. Structural design concepts and construction systems for reinforced concrete, and prestressed concrete. The documentation of such designs and the information required on structural drawings for construction purposes. Selection of structural systems. Concrete surface finishes and shotcreting.

On completion of the subject students should be able to:

- Link structural design concepts and relate these to current construction practices.
- Interpret structural drawings and be conversant with engineering terminology.

Assessment: One three-hour examination (70%) and written and drawn assignments equivalent to not more than 2000 words (30%). A minimum grade of 40% must be achieved in the examination in order to pass the subject.

702-309 Structures and Construction 3B

Credit points: 12.5

Coordinator: Mr Peter Ashford

Prerequisites: 702-308 Structures and Construction 3A

Contact: Four hours of lectures, seminars, tutorials and site visits per week (*Semester 2*).

Description: This subject is an extension of the structural behaviour, design and construction detailing covered in Construction Technology 2A and Construction Technology 2B/Structural Systems. The structural design concepts are extended and related to the varying construction techniques required. More advanced aspects of design detailing, documentation and construction methods for the following: precast concrete building systems including tilt slab construction; basements and site retention; industrial pavements; steel portal frames and steel frame systems.

On completion of the subject students should be able to:

- Link structural design concepts and relate these to current construction practices.
- Interpret structural drawings and be conversant with engineering terminology.
- Communicate construction solutions by means of sketches and drawings.

Assessment: One three-hour examination (70%). Written and drawn assignments equivalent to not more than 2000 words (30%). A minimum grade of 40% must be achieved in the examination in order to pass the subject.

702-460 Studies in Contemporary Architecture**Availability:** Not offered in 2007.**Credit points:** 12.5**Coordinator:** Professor Philip Goad**Prerequisites:** 702-232 Modern Architecture B: 20th Century (*p.13*) or approved equivalent and admission to a post-BPD program in the Faculty.**Contact:** Three hours of lectures and tutorials per week (*Not Offered*).**Description:** The formative and theoretical aspects of architecture and urban design of the last ten years. Current concepts and approaches to architectural design will be examined through detailed case studies of recently completed buildings and theoretical texts. Digital design methods, new approaches to urban form, innovations in sustainable architecture, advanced construction technology, and critical discussions of cyberspace, postcolonial identity, urban consolidation and artificial landscapes will form part of the subject. The subject will include work by architects with diverse theoretical positions such as Greg Lynn, Kazuyo Sejima, MVRDV, Rem Koolhaas, Matthias Klotz and Peter Zumthor.**Assessment:** Projects, seminar paper and exercises to the equivalent of not more than 5000 words.

705-331 Sustainability Policy and Planning**Credit points:** 12.5**Coordinator:** Anna Hurlimann**Contact:** Two 1 hour lectures and a one hour tutorial per week. Plus one site visit (*Semester 2*).**Description:** Sustainability is an ever more important component of policy in an increasingly global and complex world. This subject explores what sustainability means for planning 21st century cities. How can global, national, state and local policies shape the sustainability of cities? What will it take to achieve the sustainable city? How will we know if sustainability has been achieved?

The subject firstly provides critical analysis of the concept of sustainability, its many definitions and interpretations. The concept is explored in terms of its historical, social, cultural, environmental and economic implications and the interrelationship between these. Possibilities for sustainability will be investigated through an analysis of the management of physical environments with a focus on water management. Policy case studies will be presented and international examples are used as lessons for, and comparisons to, Australia.

On completion of this subject students should be able to:

- Critically evaluate the achievement of sustainability in cities, in particular the sustainable management of water resources
- Critically evaluate conventional and alternative water management approaches in relation to their ability to achieve sustainable management
- Identify elements of built form which do, and do not, contribute to the sustainable management of natural resources
- Demonstrate an understanding of the relationship between urban form, community attitudes to natural processes, resource management and policy promoting sustainability
- Analyse and evaluate government policy and propose innovative institutional solutions.

Assessment: Short essay 750 words (15%), a field trip report (15%), group poster and presentation (30%), research essay of 2500 words (30%), class attendance and participation (10%).

702-305 Theories of Architecture**Credit points:** 12.5**Coordinator:** Dr Jianfei Zhu**Prerequisites:** A level-2 history of architecture subject.**Contact:** Three hours of lectures and seminars per week (*Semester 1*).**Description:** This subject introduces students to a history of theories in architecture in the modern era from the pre-war decades to the present. It introduces theories available in English and those which have significantly influenced design practice in the West and parts of the Asia-Pacific region from the 1920s and 1950s to the present. Development of ideas in other regions and times may be explored by students in relation to these theories. In general this subject provides a temporal, historical and sociopolitical perspective in which contemporary anxieties, polemics and strategies can be understood. This shall prepare students for their own inquiry and for a development of their own design and critical positions in the following years.

On completion of the subject students should be able to:

- Have an introductory knowledge of the major architectural theories of the modern era in the West and parts of Asia
- Investigate a particular architectural theory for critical debate and to develop it for their own design practice.

Assessment: Assignments not more than 5000 words.

702-512 Timber Furniture Workshop**Note:** Formerly available as 702-312 Timber Furniture Workshop. Students who have completed 702-312 are not eligible to enrol in this subject. Available for final year BArch and BArch/BPC students only. Enrolments in the subject are limited to 20 places. Please refer to the section on *Quota subjects (p.11)* for details about the selection process into this subject.**Credit points:** 12.5**Coordinator:** Mr Hamish Hill**Prerequisites:** 702-404 Architectural Design 4B (*p.3*)**Contact:** Six hours of workshop classes per week (*Semester 2*).**Description:** Through the design and making of a piece of furniture, students will develop an understanding of furniture types, the design of furniture in architectural space, the qualities of timber as a material, and workshop practice for manufacture. Students will be guided through the process of producing scale models, drawings, quantities, test pieces, and the making of a prototype.**Assessment:** The completion and exhibition of a purpose-designed full-size prototype of a piece of furniture equivalent to 5000 words.

705-218 Transport and Land Use Planning**Credit points:** 12.5**Coordinator:** Dr Paul Mees**Contact:** Two hours of lectures and a one-hour tutorial per week (*Semester 1*).**Description:** This subject studies the theory and practice of transport and land use planning in urban areas. At the conclusion of the subject, students should be familiar with procedures that have been developed for planning transport and land use; be aware of the major international trends and debates in the area; be able to place the history and practice of transport and land use planning in Melbourne in an international context; be in a position to contribute to the formulation of plans for transport and land use.

The subject aims to give an overview of an area that is frequently controversial, and encourage participants to read widely and think critically. The intention is to canvass a range of views and approaches.

Assessment: Written assignments not exceeding 3000 words (60%) and a two-hour examination (40%).

702-421 Urban Design Theory**Credit points:** 12.5**Coordinator:** Professor Kim Dovey**Prerequisites:** Admission to the BArch or any graduate coursework degree of the Faculty**Contact:** Three hours of lectures or seminars per week (*Semester 1*).**Description:** Contemporary theories and modes of critique relating to the design of the urban public realm. Emphasis is on how urban physical form responds to the economic, cultural, political, social, aesthetic and natural forces of an urbanised area. Assignments and class papers require students to critically engage with a broad range of theoretical positions, and relate them to local conditions.**Assessment:** Written and graphic assignments equivalent to 5000 words.

705-315 Urban Economic Geography**Credit points:** 12.5**Coordinator:** Prof. Kevin O'Connor**Prerequisites:** Completion of 25 points of first year geography and environmental studies, economics or urban planning.**Semester:** Semester 1**Description:** This subject examines how cities work and provides the tools with which to identify the characteristics of cities. It seeks first to explain the functions performed by cities, how cities work as economic units and how they grow and decline. It seeks secondly to examine the way in which the functions of cities are located in different parts of the city, the key economic sectors in cities and the rules of their location. The subject examines the interaction between industries labour markets and urban forms and considers the interplay between local, national and global influences on the growth trajectories of cities and regions. The implications for local development strategies and social inequality are considered. The subject introduces students to the information sources that are used in urban analysis, to the principal indicators of urban social and economic well-being and to the tools that are used to analyse cities.**Assessment:** A 2 hr exam (30%), research essay (40%) and 3 tutorial papers (30%) all to the equivalent of 5000 words.