

Faculty of Architecture, Building and Planning

The Faculty of Architecture, Building and Planning encompasses four main professional disciplines: architecture, property and construction, landscape architecture, and urban planning.

The Faculty aims to produce professionals skilled in investigation, analysis, problem-solving and communication who are motivated to contribute significantly to professional and community life. Studies in core undergraduate and postgraduate programs can be combined and linked bringing new knowledge and professional opportunities to the benefit of Australian and international markets. Course flexibility allows students special opportunities to explore new fields of professional and intellectual activity and to tailor courses to match individual interests and goals.

Study programs and research within the faculty have a long history of international focus. The faculty has extensive links and exchange agreements with a number of leading universities in Asia, North America and Europe, and students are actively encouraged to take a part of their course overseas.

The faculty maintains close links with the appropriate professional institutes, each of which recognises and accredits academic qualifications awarded by the faculty. They are the Royal Australian Institute of Architects, Australian Institute of Building, Australian Institute of Landscape Architecture, Australian Property Institute, Australian Institute of Quantity Surveyors, Royal Institution of Chartered Surveyors and Royal Australian Planning Institute.

The academic requirements for professional qualification in each discipline are:

Architecture: Completion of the BPD (Architecture) (three years), one academic year (26 weeks minimum) of approved practical experience, and the Bachelor of Architecture (BArch) (two years), or Master of Architecture (by coursework).

Property and construction: Completion of the BPD (Property and Construction) (three years) and the Bachelor of Property and Construction (BPC) (pass or honours) (one year), or the BPD(Hons) (four years) and the Master of Property and Construction (MPC) by coursework (one year). Three streams are available: building construction management, building economics (quantity surveying) and property. All students must complete a period of approved industrial experience before entering the post-BPD course.

Landscape architecture: Completion of the Bachelor of Landscape Architecture (four years); or BA majoring in planning and design followed by the one-year Postgraduate Diploma in Planning and Design (Landscape Architecture) and the Master of Landscape Architecture (MLArch) by coursework (one year).

Urban planning: Completion of the Bachelor of Urban Planning and Development (four years); or BA (Planning and Design) (three years), and the Postgraduate Diploma in Planning and Design (Urban Planning) (one year).

Research activity is maintained at a high level, covering key areas such as urban planning and design, sustainability, construction and cost management, property investment, history and conservation of the built and natural environments.

Masters degrees by research can be taken in architecture, building, landscape architecture, and planning and design. Candidates are expected to complete a major research study and prepare a thesis based on the research project. The Doctor of Philosophy degree (PhD) is also available. Architecture masters candidates may choose to present design work as a part of their research (MArch by Design). In all cases, only applicants with an appropriate academic background are admitted. In some cases preliminary studies may be approved as a bridging course for students of other disciplines.

Further information about masters degrees by both coursework and research should be sought from the Student Services Office, Faculty of Architecture, Building and Planning.

Objectives of the faculty

The general objectives of the Faculty of Architecture, Building and Planning are to:

- establish opportunities for exploring, debating and communicating architectural, planning, design, construction, management and property issues, with a focus on Australia and the Asia-Pacific region;

- develop research programs in architecture, building, property and construction, quantity surveying, urban planning, landscape architecture and other areas involved in the transformation and management of the built and natural environment;
- produce graduates who have professional commitment, well-developed problem-solving and communication skills, and who will make a maximum contribution to the community and maintain the habit of curiosity and inquiry;
- contribute actively to the discussion and solution of major community problems.

Faculty courses

Undergraduate

- Bachelor of Planning and Design (Architecture) *BPD*
- Bachelor of Planning and Design (Property and Construction) *BPD*
- Bachelor of Planning and Design (Property and Construction)/Bachelor of Geomatic Engineering *BPD/BGeomE*
- Bachelor of Planning and Design (Honours) (Property and Construction) *BPD(Hons)*
- Bachelor of Property and Construction/Bachelor of Commerce *BPC/BCom*
- Bachelor of Property and Construction/Bachelor of Laws *BPC/LLB*
- Bachelor of Landscape Architecture *BLArch*
- Bachelor of Urban Planning and Development *BUPD*

Post-bachelor

- Bachelor of Architecture *BArch*
- Bachelor of Property and Construction *BPC (Pass or Honours)*
- Bachelor of Architecture/Bachelor of Property and Construction *BArch/BPC*

Graduate

- Graduate Certificate in Landscape Architecture *CertLA*
- Graduate Certificate in Urban Planning *CertUP*
- Graduate Diploma in Planning and Design *DipPD*
- Graduate Diploma in Planning and Design (Building) *DipPD(Bldg)*
- Graduate Diploma in Landscape Architecture *DipLArch*
- Postgraduate Diploma in Planning and Design (Landscape Architecture) *GDipP&D(LArch)*
- Graduate Diploma in Urban Planning *DipUP*
- Postgraduate Diploma in Planning and Design (Urban Planning) *GDipP&D(UP)*

Higher degrees

- Master of Architecture *MArch*
- Master of Building *MBlgd*
- Master of Landscape Architecture *MLArch*
- Master of Property and Construction *MPC*
- Master of Planning and Design *MPD*
- Master of Urban Design *MUD*
- Master of Urban Planning *MUP*
- Doctor of Philosophy *PhD*
- Doctor of Architecture *DArch*

Architecture

Bachelor of Planning and Design (Architecture)

Bachelor of Architecture (Pass or Honours)

Bachelor of Architecture/Bachelor of Property and Construction

Master of Planning and Design

Master of Architecture

Doctor of Architecture

The emphasis of the architecture program is on the design of buildings and the management of the building process, involving studies in design, building technology, history and theory, and architectural management. The Bachelor of Architecture degree enables graduates to become architects following registration who can undertake general practice or choose to specialise. The range of specialisations open to architects includes commercial, industrial and institutional developments, housing, historic building conservation and renovation, and building interiors. An architectural qualification is highly portable, with many graduates choosing to work as architects overseas. An architectural education has also proved to be a useful basis for a range of design-related careers such as industrial design, furniture design, interior design, landscape design, and urban design. It is also a useful preparation for careers in design management, in areas such as urban planning, facilities management, project management and development, conservation and heritage management, and public art. Most design-related careers or careers in design management require additional academic qualifications, and it is not unusual for BArch graduates to undertake further graduate or postgraduate studies.

Architecture and property and construction students undertake some common core subjects in most years of their respective courses. The flexible structure of the course allows students to gain experience of the wider professional and cultural context of architectural practice by taking subjects in landscape architecture, urban design, urban planning, as well as additional building subjects. Students, through their choice of these options, are able to avoid up to a semester of subjects that are currently required of graduates who want to gain entry into the Master of Landscape Architecture (MLArch), the Master of Urban Planning (MUP) and other postgraduate courses such as urban design offered by the Faculty of Architecture, Building and Planning.

Bachelor of Planning and Design (Architecture)

The Bachelor of Planning and Design (Architecture) is a three-year, full-time course of 300 points. It is the pre-professional degree leading to entry into the BArch or BArch/BPC. On completing the BPD (Architecture), students who have obtained the required standard in their BPD pass degree and who wish to pursue a career in architecture are required to undertake a period of practical work experience before enrolling in the two-year BArch course. The BArch is the professional degree recognised by the Royal Australian Institute of Architects and the Architects Registration Board of Victoria.

Graduates of the BPD (Architecture) course who have obtained the required standard in their BPD degree may choose to undertake a combined professional degree in architecture, property and construction - the BArch/BPC. Alternatively, they may choose to pursue professional careers in building, landscape architecture, urban design or urban planning by enrolling directly in the BPC, MLArch, MPD or MUP degree courses. These professionally recognised courses are generally of two years duration (and may require further preliminary studies). BPD (Architecture) graduates may also choose to undertake the BArch followed by the MUP or the MLArch, completing the second professional degree with as little as one year of additional academic study.

Students are considered to be in a particular year level of the course until they have completed all the compulsory and elective points requirements for that level of study.

Course objectives

The Bachelor of Planning and Design (Architecture) course has as its objectives that graduates:

- have an architectural knowledge base consisting of an integrated system of concepts, principles, theories, technical data and skills relating to the design and practice of architecture;
- have a sound grasp of problem-solving techniques, such that they are able to synthesise and apply this knowledge base in the planning and design of medium-scale, energy-efficient buildings;
- understand the social context of their discipline and have an appreciation of the socio-economic implications and tectonic and cultural significance of architecture in history;
- have developed critical techniques that enable them to take a professionally responsible role in the community through the formulation of independent evaluations of those social, economic and political institutions, existing conventions, and new ideas that inform the practice of architecture and its professional ethics;
- are introduced to the wider professional context of architectural practice, and have an appreciation of building, engineering, planning, landscape and design as related professional disciplines;
- are competent designers, able to understand, develop and successfully apply design tactics that are responsive to clients' needs with regard to the formal and functional organisation of the program;

- are able to engage confidently in the self-directed study and research necessary for their subsequent professional degree studies and their continuing professional development;
- understand the extent to which teamwork underscores the design and production of building, and have acquired an appreciation of the interpersonal, communication and management skills necessary for the successful practice of architecture;
- are technically competent and are able to demonstrate the acquisition of those professional and technical skills necessary to gain employment as an architectural draughtsperson/technical assistant.

Course structure - BPD (Architecture)

	Points
First year	
Semester 1	
702-101 Architectural Design 1A (p.1)	12.5
702-120 Design Communications 1A (p.6)	12.5
702-137 Construction Technology 1A (p.4)	12.5
702-102 City in History (p.4)	12.5
Semester 2	
702-103 Architectural Design 1B (p.2)	12.5
702-121 Design Communications 1B (p.6)	12.5
702-138 Construction Technology 1B (p.5)	12.5
702-131 European Architecture A (p.8) (not available 2002), or	12.5
702-132 European Architecture B (p.8)	12.5
Total	100.0
First year mid-year entry	Points
Summer Semester options	
702-104 Architectural Design 1C (p.2)	12.5
702-123 Design Communications 1C (p.6)	12.5
Second year	Points
Semester 1	
702-204 Architectural Design & Practice 2A (p.2)	12.5
702-237 Construction Technology 2A (p.5)	12.5
702-208 Digital Design Modelling (p.7)	12.5
History elective, choose one of:	
702-231 Modern Architecture A: 19th Century (p.10)	12.5
702-233 Asian Architecture A: Southeast Asia (p.3)	12.5
702-331 Australian Architecture (p.3)	12.5
Semester 2	
702-206 Architectural Design & Practice 2B (p.2)	12.5
702-238 Construction Technology 2B (p.5)	12.5
702-219 Built-Environment Sciences (p.4)	12.5
History elective, choose one of:	
702-232 Modern Architecture B: 20th Century (p.11)	12.5
702-234 Asian Architecture B: China Korea Japan (p.3)	12.5
705-216 History of Landscape Architecture (p.8)	12.5
Total	100.0
Second year mid-year entry	Points
Summer Semester options	
702-102 City in History (p.4), or 702-231 Modern Architecture A: 19th Century (p.10)	12.5
702-208 Digital Design Modelling (p.7)	12.5
Third year	Points
Semester 1	
702-303 Architectural Design & Practice 3 (p.2)	12.5
702-337 Construction Technology 3A (p.5)	12.5
702-305 Theories of Architecture (p.15)	12.5
702-343 Environmental Design (p.7)	12.5
Semester 2	
702-340 Design 3 (p.6)	12.5
702-338 Construction Technology 3B (p.5)	12.5
702-348 Architectural Practice A (p.3)	12.5
Elective	12.5
Total	100.0
Elective options for Semester 2 of third year may include the following:	Sem.
702-323 Computers in Architecture 3 (p.4)	2
107-106 Roman Art and Architecture (p.5)	N/A
702-234 Asian Architecture B: China Korea Japan (p.3)	2
702-232 Modern Architecture B: 20th Century (p.11)	2
705-216 History of Landscape Architecture (p.8)	2
702-334 Rendering as a Graphic Communication (p.13)	2
705-415 Perceptions of the Australian Landscape (p.11)	N/A

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Elective options for Semester 2 of third year may include the following:

	Sem.
306-102 Accounting Concepts (p.1)	2 rep Summer
451-102 Introduction To Surveying (B.P.D.) (p.4)	2

Students are also encouraged to refer to the *Art history* (p.1) section of the Handbook for elective options.

Bachelor of Architecture

The BArch is a two-year, full-time course of 200 points. It is available at both pass and honours levels. The course satisfies the academic requirements for registration by the Architects Registration Board of Victoria and for membership of the Royal Australian Institute of Architects. An additional requirement of registration is up to two years of approved professional experience in architecture (experience as a student of architecture can count for up to one of these two years).

Students are considered to be in a particular year level of the course until they have completed all the compulsory and electives points requirements for that level of study.

Course objectives

The Bachelor of Architecture course has as its objectives that graduates:

- have an architectural knowledge base consisting of an integrated system of concepts, principles, theories, technical data and skills relating to the design and practice of architecture with particular relevance to Australia and to the broader Asia-Pacific region;
- have a sound grasp of problem-solving techniques such that they are able to synthesise and apply this knowledge base in the planning and design of large-scale, programmatically-complex, energy-efficient buildings;
- have developed critical techniques that enable them to take a professionally responsible role in the community through the formulation of independent evaluations of those social, economic and political institutions, existing conventions and new ideas that inform the practice of architecture and its professional ethics;
- understand the social context of their discipline and have a critical appreciation of the aesthetic and functional implications of socio-economic factors on the cultural significance of architecture;
- are competent designers, able to understand, develop and apply design tactics that are responsive to clients' needs with regard to the formal and functional organisation of the program;
- are able to engage in the self-directed study and research necessary to their advancement through postgraduate studies and/or the continuing development of their professional careers;
- are effective managers with a developed understanding of those principles of interpersonal, communication, management and leadership skills necessary for the successful practice of architecture;
- are technically and professionally competent and are able to demonstrate the acquisition of those professional and technical skills necessary to gain employment as a graduate architect and to advance to full professional status as a registered architect.

Entry into the BArch course

Generally, to gain entry, graduates of the BPD (Architecture) or its equivalent must have completed one academic year (26 weeks minimum) of approved practical experience undertaken after the completion of the BPD.

Applicants from other institutions may be required to present to the Selection Committee a portfolio of their design work that convincingly demonstrates the ability to complete the BArch course. Such applicants may then be required to attend an interview. Applicants from other institutions may also be required to undertake preliminary studies.

Course structure - Bachelor of Architecture

	Points
First year	
Semester 1	
702-403 Architectural Design & Practice 4 (p.2)	25
Elective	12.5
Elective	12.5
Semester 2	
702-440 Design 4 (p.6)	12.5
702-412 Advanced Services (p.1)	12.5
702-416 Construction Law (p.4)	12.5
Elective	12.5
Total	100.0
Second year	
Semester 1	
702-503 Architectural Design & Practice 5 (p.3)	25
702-574 Design Investigation (p.6)	12.5
Elective	12.5

Second year

	Points
Semester 2	
702-540 Design 5 (p.6)	25
702-505 Architectural Practice B (p.3)	12.5
Elective	12.5
Total	100.0

BArch electives

History subjects

To graduate BArch, students are required to have completed 50 points of approved history subjects by the end of the BArch course. All or some of these subjects can be undertaken in the BPD (Architecture) course with any shortfall in the requisite points being undertaken in the BArch course. It is strongly recommended that the four history subjects include Modern Architecture B and one regional history e.g. Australian Architecture A, Asian Architecture A or Asian Architecture B.

BArch students are required to use the electives available in the BArch course (totalling up to 50 points) to complement their architectural studies. Each student will be expected to develop an approved program of studies for these electives. When developing these elective programs, students with the approval of the Dean may choose subjects offered in other faculties. When developing a program of BArch elective studies, students should be guided by the subject lists published by the faculty for this purpose.

The elective program in the BArch also permits architecture students to undertake subjects in the MUP and the MLArch. With appropriate course planning, BArch graduates may be able to complete a professionally accredited MUP or MLArch in one additional year of academic study. Electives also provide pathways into research. Appropriately prepared BArch graduates should then be able to complete the MArch research degree (either by thesis or by design) in one full-time year.

Postgraduate programs in Architecture

Master of Architecture by coursework

The Master of Architecture by coursework is normally a two-year program. Credit may be given to applicants who have a five-year professional degree with honours and to students who have completed four years of a five-year professional degree at honours standard. Please refer to the faculty's Postgraduate Handbook for details.

Master of Architecture by thesis or design

The MArch may be undertaken either by research and submission of a thesis, or by design involving preparation of a series of designs with accompanying dissertation. Contact the faculty's Research and Graduate Studies Office for further details and application forms.

Architectural history

Bachelor of Arts (architectural history major)

Architectural history is taught within the Faculty of Architecture, Building and Planning, but also in the Faculty of Arts. It deals with aspects of the history, interpretation, representation, cultural context, design, planning, construction, and conservation of buildings, viewed in a perspective of social history and cultural milieu. Specific subject areas include the wide range of European architecture, architecture of the 19th and 20th centuries, Greek and Roman architecture, Asian architecture, and Australian architecture.

Course structure

Refer to *Architectural history* (p.1) in the Faculty of Arts section of the Handbook.

Bachelor of Architecture/Bachelor of Property and Construction

The professionally accredited combined architecture and property and construction course (BArch/BPC) is open to graduates of both the architecture and the property and construction streams of the BPD and allows graduates to complete the two professional degrees in a minimum of six full-time academic years plus the mandatory industry experience requirement. The BArch is recognised by the Royal Australian Institute of Architects. All three streams of the BPC are recognised by the Australian Institute of Building as are relevant streams by the Australian Institute of Quantity Surveyors, Australian Property Institute and Royal Institution of Chartered Surveyors.

Having the two professional degrees allows graduates to combine the architecture course's strengths in design with the property and construction course's strengths in construction technology and management and the property field. The career opportunities for graduates with professional accreditation in both architecture and property and construction are considerable. Graduates can operate at a much more effective level of professionalism as either architects or as property and construction professionals, or as architect/property and construction professionals; and they can also follow careers in

the fields of project management, construction management and economics, design and construction, and the property industry.

Admission to the course is open to graduates of both the BPD (Architecture) and BPD (Property and Construction) courses who have achieved an average grade of H3 (65 per cent) or above in the third year of the BPD. Graduates of the BPD (Property and Construction) degree will need to have completed the following architecture subjects as their electives: Year 1: 702-101 Architectural Design 1A, Year 2: 702-204 Architectural Design and Practice 2A, or 702-103 Architectural Design 1B, Year 3: 702-204 Architectural Design and Practice 2A, or 702-206 Architectural Design and Practice 2B. Graduates of the BPD (Architecture) will need to complete the subjects 306-102 Accounting Concepts and 451-102 Introduction to Surveying (BPD). It is recommended that one of these subjects be chosen as an elective in the BPD. Approved work experience in the building industry (architecture and/or property and construction) must be undertaken before admission to the BArch/BPC. Both BPD Architecture and Property and Construction graduates are required to complete a minimum of 26 weeks of professional experience prior to entry. For entry from other institutions, applicants will need to hold a similar qualification and may be required to undertake preliminary studies.

The course is of three years duration including a program of prescribed preliminary subjects totalling 100 points. On successful completion of the preliminary year, students will be enrolled in the two-year BArch/BPC course of subjects totalling 200 points as set out below.

Course objectives

The Bachelor of Architecture/Bachelor of Property and Construction course has as its objectives that graduates:

- have an architecture and property and construction knowledge base consisting of an integrated system of concepts, principles, theories, technical data and skills relating to building technology, the design and practice of architecture, management of the construction process and property investment with particular relevance to Australia and to the broader Asia-Pacific region;
- have a sound grasp of problem-solving techniques such that they are able to synthesise and apply this knowledge base in the planning and design of large-scale, programmatically-complex, energy-efficient buildings, in the construction of buildings and in the financial management of the construction process;
- have developed critical techniques that enable them to take a professionally responsible role in the community through the formulation of independent evaluations of those social, economic and political institutions, existing conventions, and new ideas that inform the practices of architecture and property and construction and their related professional ethics;
- understand the social context of their discipline and have a critical appreciation of the aesthetic and functional implications of socio-economic factors on the cultural significance of architecture;
- are competent designers, able to understand, develop and successfully apply both strategies for developing and organising building programs, and design tactics that can give appropriate cultural and tectonic expression to the resulting architecture;
- are able to engage confidently in the self-directed study and research necessary to their advancement through postgraduate studies and/or the continuing development of their professional degrees;
- are effective managers with an understanding of those principles of interpersonal communication, management and leadership skills necessary for the successful practice of architecture and to ensure competence in the construction and cost-management of building projects;
- are technically and professionally competent and are able to demonstrate the acquisition of those professional and technical skills necessary to gain employment as a graduate architect and/or graduate builder and/or graduate quantity surveyor or property professional and to advance to full professional status as an architect and/or builder and/or quantity surveyor and/or property professional.

Course structure - Bachelor of Architecture/Bachelor of Property and Construction

It should be noted that the following program applies to BArch/BPC where the BPC stream in building construction management is selected. Reference should be made to the course coordinator for details applying to the building economics and property streams.

First year (preliminary program for BPD (Architecture) graduates)		Points
Semester 1		
702-216	Introduction to Cost Management (p.9)	12.5
702-236	Management of Construction 2 (p.10)	12.5
702-308	Structures and Construction 3A (p.14)	12.5
702-309	Structures and Construction 3B (p.14)	12.5
Semester 2		
702-310	Construction Methods and Equipment (p.4)	12.5

First year (preliminary program for BPD (Architecture) graduates)		Points
702-416	Construction Law (p.4)	12.5
702-361	Construction Cost Planning (p.4)	12.5
702-316	Management of Construction 3 (p.10)	12.5
Total		100.0

First year (preliminary program for BPD (Property and Construction) graduates)		Points
Semester 1		
702-303	Architectural Design & Practice 3 (p.2)	12.5
702-208	Digital Design Modelling (p.7)	12.5
702-343	Environmental Design (p.7)	12.5
702-305	Theories of Architecture (p.15)	12.5
Semester 2		
702-340	Design 3 (p.6)	12.5
702-232	Modern Architecture B: 20th Century (p.11)	12.5
702-338	Construction Technology 3B (p.5)	12.5
702-348	Architectural Practice A (p.3)	12.5
Total		100.0

Second year BArch/BPC year 1		Points
Semester 1		
702-403	Architectural Design & Practice 4 (p.2)	25
702-411	Advanced Construction (p.1) ¹	12.5
702-413	Project Administration (p.12) ¹	12.5
Semester 2		
702-412	Advanced Services (p.1)	12.5
702-440	Design 4 (p.6)	12.5
Approved Architectural History Elective (BPD P&C graduates only)		12.5
451-102	Introduction To Surveying (B.P.D.) (p.4)	12.5
Elective (or 702-415 Property Asset Management (p.13) if the third year option 2 is to be taken - see below)		12.5
Total		100.0

Third year: BArch/BPC year 2 option 1		Points
Semester 1		
702-503	Architectural Design & Practice 5 (p.3)	25
702-419	Advanced Construction Law (p.1) ¹	12.5
Elective		12.5
Semester 2		
702-505	Architectural Practice B (p.3)	12.5
702-414	Project Management (p.12)	12.5
702-415	Property Asset Management (p.13) ¹	12.5
Elective (or 702-483 Advanced Quantity Surveying (p.1))		12.5
Total		100.0

1. Note: These subjects may be taken in either the second or third year of the course, depending on timetabling.

Third Year: BArch/BPC year 2 option 2		Points
Semester 1		
702-503	Architectural Design & Practice 5 (p.3)	25
702-574	Design Investigation (p.6)	12.5
Elective		12.5
Semester 2		
702-505	Architectural Practice B (p.3)	12.5
702-540	Design 5 (p.6)	25
702-414	Project Management (p.12)	12.5
Total		100.0

Property and construction

Bachelor of Planning and Design (Property and Construction) (Pass or Honours)

Bachelor of Planning and Design/Bachelor of Geomatic Engineering (Property and Construction)

Bachelor of Property and Construction (Pass or Honours)

Bachelor of Architecture/Bachelor of Property and Construction

Bachelor of Property and Construction/Bachelor of Commerce

Bachelor of Property and Construction/Bachelor of Laws

Graduate Diploma in Planning and Design (Building)

Master of Property and Construction

The property and construction program focuses on developing expertise in construction technology, management and property investment. Graduates become project and site managers for building construction projects; advisers for property investment and development; materials and product manufactur-

ers and suppliers; quantity surveyors and cost managers. Graduates can specialise in large commercial developments, housing, historic building preservation and renovation, and building interiors. Graduates can also seek careers as academics and/or researchers.

The courses provide three streams: building construction management, building economics, and property. All have a technology basis covering construction practice, services, structures and construction equipment. The building construction management stream concentrates on physical construction and the management of the construction process. The building economics stream involves cost management and quantity surveying. The property stream covers analysis of markets, investment, development, valuation, appraisal and property management.

A professionally accredited qualification in property and construction normally takes a minimum of four years. The Bachelor of Planning and Design (Property and Construction) is the pre-professional degree leading to entry into the BPC. It is a three-year, full-time course. On completing the BPD (Property and Construction), students who wish to pursue a career in property and construction are required to undertake a period of practical work experience. They may then enrol in the one-year BPC course which is the professional degree recognised by the Australian Institute of Building, Australian Property Institute, the Australian Institute of Quantity Surveyors and the Royal Institution of Chartered Surveyors.

Graduates of the BPD (Property and Construction) course who have obtained the required standard in their BPD pass degree and completed a period of approved industrial experience may apply for entry to:

- i. the Bachelor of Property and Construction degree with Honours, or
- ii. the combined professional degree in architecture and property and construction, the BArch/BPC.

Alternatives

BPD (Property and Construction) students who are offered entry into the BPD (Hons) may apply for entry to a professionally accredited MPC after undertaking a period of approved industrial experience.

Bachelor of Planning and Design (Property and Construction)

Course objectives

The Bachelor of Planning and Design (Property and Construction) has as its objectives that graduates:

- have a property and construction knowledge base consisting of an integrated system of concepts, principles, theories, technical data and skills relating to land utilisation, construction design and technology, property and construction finance and economics, property investment and development, management of the construction process and the operational management of property and buildings;
- have a sound grasp of problem-solving techniques such that they are able to synthesise and apply this knowledge base in the appraisal and management of property and construction;
- understand the social context of their discipline and have an appreciation of the context and cultural significance of property and construction in history and the role of property and construction in the economy;
- are introduced to the wider professional context of property and construction practice, and have an appreciation of architecture, building, engineering, economics, finance, planning, and management as related professional disciplines;
- have developed critical techniques that enable them to take a professionally responsible role in the community through the formulation of independent evaluations of those social, economic and political institutions, existing conventions, and new ideas that inform the practice of property and construction and the associated professional ethics;
- are able to engage in the self-directed study and research necessary for their advancement through their subsequent professional degree studies;
- understand the extent to which teamwork underscores the production of property and the construction of buildings, and have acquired an appreciation of the interpersonal, communication and management skills necessary for the successful practice of property and construction;
- are technically competent and are able to demonstrate the acquisition of those professional and technical skills necessary to gain employment as an assistant to a practising constructor, quantity surveyor or property professional.

Course structure - BPD (Property and Construction)

First year (all streams)		Points
Semester 1 (Option 1)		
702-137	Construction Technology 1A (p.4)	12.5
702-115	Property 1 (p.12)	12.5
702-101	Architectural Design 1A (p.1)	12.5
702-120	Design Communications 1A (p.6)	12.5

First year (all streams)		Points
Semester 1 (Option 2)		
702-137	Construction Technology 1A (p.4)	12.5
702-115	Property 1 (p.12)	12.5
316-102	Introductory Microeconomics (p.1)	12.5
705-112	Skills for Urban Planning and Management (p.14)	12.5
Semester 2		
451-102	Introduction To Surveying (B.P.D.) (p.4)	12.5
702-117	Management of Construction 1 (p.10)	12.5
702-138	Construction Technology 1B (p.5)	12.5
702-217	History of Building Construction (p.8)	12.5
Total		100.0

Second year (building construction management, building economics/quantity surveying)		Points
Semester 1		
325-201	Organisational Behaviour (p.1)	12.5
702-237	Construction Technology 2A (p.5)	12.5
702-216	Introduction to Cost Management (p.9)	12.5
702-236	Management of Construction 2 (p.10)	12.5
Semester 2		
306-102	Accounting Concepts (p.1)	12.5
702-238	Construction Technology 2B (p.5)	12.5
702-219	Built-Environment Sciences (p.4)	12.5
	Elective	12.5
Total		100.0

Second year (property)		Points
Semester 1		
325-201	Organisational Behaviour (p.1)	12.5
702-237	Construction Technology 2A (p.5)	12.5
705-173	Shaping the Metropolis (p.14)	12.5
	Elective	12.5
Semester 2		
306-102	Accounting Concepts (p.1)	12.5
702-211	Property 2 (p.12)	12.5
702-238	Construction Technology 2B (p.5)	12.5
702-219	Built-Environment Sciences (p.4)	12.5
Total		100.0

Third year (building construction management, building economics/quantity surveying)		Points
Semester 1		
702-337	Construction Technology 3A (p.5)	12.5
702-308	Structures and Construction 3A (p.14)	12.5
702-309	Structures and Construction 3B (p.14)	12.5
	Elective	12.5
Semester 2		
702-310	Construction Methods and Equipment (p.4)	12.5
702-361	Construction Cost Planning (p.4)	12.5
702-316	Management of Construction 3 (p.10)	12.5
702-416	Construction Law (p.4)	12.5
Total		100.0

Third year (property)		Points
Semester 1		
702-337	Construction Technology 3A (p.5)	12.5
702-353	Property 3 (p.13)	12.5
702-216	Introduction to Cost Management (p.9)	12.5
121-006	Urban Economic Geography (p.2)	12.5
Semester 2		
702-416	Construction Law (p.4)	12.5
702-355	Property Management (p.13)	12.5
705-219	Planning and Development Management (p.11)	12.5
	Elective	12.5
Total		100.0

Bachelor of Planning and Design (Property and Construction) (Honours)

Normal entry is after completion of a period of approved industrial experience. An average of 70 per cent (H2B) at third level of BPD (Property and Construction) is required for selection into the BPD (Property and Construction) (Hons) program; the degree itself must be completed with a grade average of 70 per cent (H2B standard) and within the two semester time-frame for the Honours year. Refer to course adviser for details.

Bachelor of Geomatic Engineering/Bachelor of Planning and Design (Property and Construction)

The BGeomE/BPC requires a total of 500 points of which 300 are designated engineering points and 200 are planning and design points. The program is structured to provide professional engineers and land surveyors with a comprehensive program to serve the needs of the land development industry. Students enrolled in the BGeomE/BPD combined course undertake geomatics subjects in the areas of measurement science, the mapping sciences, geographic information systems and land management as well as the fundamental areas of mathematics, computer science and professional studies. Students also undertake property and construction subjects in the areas of property, construction technology, management of construction, construction law, accounting concepts and construction cost management.

Course structure

Refer to *Bachelor of Geomatic Engineering/Bachelor of Planning and Design (Property and Construction) (BGeomE/BPD) (p.3)* in the engineering section of the Handbook.

Bachelor of Property and Construction

The BPC is normally a one-year, full-time course of 100 points. Depending on the stream taken, it is recognised by the Australian Institute of Building, Australian Property Institute, the Royal Institution of Chartered Surveyors and by the Australian Institute of Quantity Surveyors. All prospective students (including BPD graduates) must apply through the faculty's Student Services Office.

Entry from the BPD requires completion of the BPD (Property and Construction) and a period of approved practical experience in the property or construction industries. One year is recommended but a minimum of six months is required. Entry from other faculties and institutions normally requires that applicants hold a three-year degree in an appropriate discipline (such as building, quantity surveying, architecture, engineering) and have practical experience in the property or construction industries. Applicants may be required to undertake preliminary studies to compensate for deficiencies in their previous studies.

Course objectives

In addition to the objectives of the Bachelor of Planning and Design (Property and Construction), the objectives of the Bachelor of Property and Construction are that its graduates:

- are fully conversant with at least one of the three main perspectives of the property and construction professions, namely, construction management, construction economics and property over the full life cycle from land development through design and construction to operational management and ultimate disposal;
- are able to engage confidently in the self-directed study necessary to their advancement through the Bachelor of Property and Construction course and their future continuing professional development;
- are effective managers with an understanding of those principles of interpersonal communication, management and leadership skills that ensure competence in the construction, development and management of property;
- are technically and professionally competent and are able to demonstrate the acquisition of those professional and technical skills necessary to gain employment as a graduate property or construction professional and to advance to full professional status.

Course structure - Bachelor of Property and Construction

Building construction management	Points
Semester 1	
702-411 Advanced Construction (p.1)	12.5
702-413 Project Administration (p.12)	12.5
702-419 Advanced Construction Law (p.1)	12.5
Elective	12.5
Semester 2	
702-412 Advanced Services (p.1)	12.5
702-414 Project Management (p.12)	12.5
702-415 Property Asset Management (p.13)	12.5
Elective	12.5
Total	100.0
Building economics/quantity surveying	Points
Semester 1	
702-413 Project Administration (p.12)	12.5
702-419 Advanced Construction Law (p.1)	12.5
Electives	25.0
Semester 2	
702-412 Advanced Services (p.1)	12.5
702-414 Project Management (p.12)	12.5

Building economics/quantity surveying	Points
702-415 Property Asset Management (p.13)	12.5
702-483 Advanced Quantity Surveying (p.1)	12.5
Total	100.0
Property	Points
Semester 1	
702-418 Property Development & Investment (p.13)	12.5
705-445 Planning Law (p.11)	12.5
702-419 Advanced Construction Law (p.1)	12.5
705-218 Transport and Land Use Planning (p.15)	12.5
Semester 2	
702-412 Advanced Services (p.1)	12.5
702-415 Property Asset Management (p.13)	12.5
Electives	25.0
Total	100.0

Bachelor of Property and Construction (Honours)

The Bachelor of Property and Construction (Honours) program is a one-year course which requires completion of the BPD (Property and Construction) or equivalent to at least a 70 per cent (H2B) grade standard and a minimum of six months of approved practical experience in the property or construction industries. Students will be awarded a Bachelor of Property and Construction (Honours) after completion of one of the BPC programs with an average standard of 70 per cent (H2B) or greater within the two semester time frame for the degree. Students are required to select one of the following: 702-474 Investigation Program A (p.9), 702-476 Investigation Program C (p.9), or 705-403 Research Project C (p.13).

Bachelor of Property and Construction/Bachelor of Laws

The BPC/LLB requires a total of 600 points of which 300 are designated law points and 300 are property and construction points. The program is structured to provide lawyers with a comprehensive program to serve the needs of the land development industry. Students enrolled in the BPC/LLB combined course undertake law subjects in the areas of torts and processes of law, history and philosophy of law, criminal law constitutional and administrative law, property, equity and trusts, and contracts. Students also undertake property and construction subjects in the areas of property, construction technology, management of construction, construction law, accounting concepts and construction cost management.

Course structure

Refer to *Combined property and construction/law degree (p.8)* in the law section of the Handbook.

Bachelor of Commerce/Bachelor of Property and Construction

The Bachelor of Commerce/Bachelor of Property and Construction is a five-year combined degree. Its purpose is to provide substantial grounding in general business as well as a detailed grounding in various aspects of property and construction. Graduates are expected to enter careers in the property and construction or accounting and finance industries both locally and internationally. They will contribute necessary technical knowledge to the industry at the project level and provide a wider understanding of the local, national and international economies and their effect on the business cycle, the optimum use of resources in building materials, property development and land. Graduates will assist in strengthening the culture of sustainable property development and sustainable construction.

Course objectives

The objectives of the the Bachelor of Commerce/Bachelor of Property and Construction are that graduates:

- understand the basic concepts and institutional arrangements underlying operations in the Australian economy with particular reference to the property and construction industry;
- can communicate effectively especially on matters of economics and commerce, and property and construction;
- possess skills in the basic quantitative methods and information technologies as used in the study of property and construction in the economy, commerce and government;
- can analyse and solve problems and are committed to seeking solutions in a scholarly manner by reference to observable data and a knowledge of the behaviour of groups in the property and construction industry and the economy;
- critically understand the economy, commerce and business and the need to manage the economy and the property and construction industry for the benefit of all groups in society;
- have a capacity and motivation for continued learning;

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- are technically and professionally competent and are able to demonstrate the acquisition of the technical and professional skills necessary to gain employment and advance to full professional status;
- have a basic level of knowledge and skills in several disciplines and are fully conversant with at least one of the disciplines of management, economics, accounting and finance and at least one of the three main streams of the property and construction professions, namely, building construction management, building economics and quantity surveying, property development, investment and management;
- understand the property life cycle from land development through design and construction to operational management and ultimate disposal.

Duration of the course

The Bachelor of Commerce/Bachelor of Property and Construction is usually taken full time over five years and part time over 10 years. Full-time students are expected to take four subjects per semester.

Course requirements

Students undertaking the Bachelor of Commerce/Bachelor of Property and Construction must accumulate 500 points which must include:

Bachelor of Property and Construction component

300 points of subjects drawn from the Bachelor of Planning and Design (Property and Construction) and the Bachelor of Property and Construction. Students should refer to the following suggested course structures. The Bachelor of Planning and Design will not be awarded to combined degree students.

Commerce component

200 points of subjects drawn from the Bachelor of Commerce pass degree. These must include:

- 316-102 Introductory Microeconomics
- 316-101 Introductory Macroeconomics
- 316-130 Quantitative Methods 1
- One of:
 - 316-206 Quantitative Methods 2
 - 316-205 Introductory Econometrics
 - 325-210 Managerial Decision Analysis
 - 325-212 Market Research
- at least 50 points of level one subjects (e.g. 316-1XX)
- at least 50 points of level three subjects (e.g. 316-3XX)

Professional experience component

Students will be required to undertake one year of approved professional experience in the property and construction or accounting and finance industries prior to commencing the final 100 points of study.

Upon completion of the penultimate year students take a leave of absence from their degree to work for the year. Enquiries regarding professional experience in the property and construction industry should be directed to the Faculty of Architecture Building and Planning Student Services office.

Course structure

Two suggested specialisations are outlined below combining property and construction with management and with finance. Other suggested specialisations are available upon request such as construction economics/quantity surveying with economics and construction management or property with accounting. Any enquiries regarding course requirements should be referred to the Faculty of Architecture Building and Planning Student Services office.

Building construction management - Management

	Points
First year	
316-101 Introductory Macroeconomics (p.1)	12.5
316-102 Introductory Microeconomics (p.1)	12.5
316-130 Quantitative Methods 1 (p.1)	12.5
325-101 Management (p.1)	12.5
702-137 Construction Technology 1A (p.4)	12.5
702-115 Property 1 (p.12)	12.5
702-117 Management of Construction 1 (p.10)	12.5
702-138 Construction Technology 1B (p.5)	12.5
Second year	
325-201 Organisational Behaviour (p.1)	12.5
306-102 Accounting Concepts (p.1)	12.5
702-237 Construction Technology 2A (p.5)	12.5
702-216 Introduction to Cost Management (p.9)	12.5
702-238 Construction Technology 2B (p.5)	12.5
702-236 Management of Construction 2 (p.10)	12.5
702-217 History of Building Construction (p.8)	12.5
451-102 Introduction To Surveying (B.P.D.) (p.4)	12.5
Third year	
316-205 Introductory Econometrics (p.1), or	12.5

Building construction management - Management

	Points
316-206 Quantitative Methods 2 (p.1), or	12.5
325-210 Managerial Decision Analysis (p.2), or	12.5
325-212 Market Research (p.2)	12.5
325-211 Principles of Marketing (p.2)	12.5
325-102 Business in the Global Economy (p.1)	12.5
325-209 Human Resource Management (p.2)	12.5
325-203 Operations Management (p.1)	12.5
325-228 Strategy (p.3)	12.5
3xx-3xx Level three commerce option	12.5
702-219 Built-Environment Sciences (p.4)	12.5
Fourth year	
325-304 Organisational Analysis (p.3)	12.5
702-308 Structures and Construction 3A (p.14)	12.5
702-337 Construction Technology 3A (p.5)	12.5
702-416 Construction Law (p.4)	12.5
702-316 Management of Construction 3 (p.10)	12.5
702-310 Construction Methods and Equipment (p.4)	12.5
702-361 Construction Cost Planning (p.4)	12.5
702-309 Structures and Construction 3B (p.14)	12.5
Fifth year	
325-308 Industrial Relations (p.4)	12.5
325-331 International Industrial Relations (p.5)	12.5
702-411 Advanced Construction (p.1)	12.5
702-412 Advanced Services (p.1)	12.5
702-413 Project Administration (p.12)	12.5
702-414 Project Management (p.12)	12.5
702-415 Property Asset Management (p.13)	12.5
702-419 Advanced Construction Law (p.1)	12.5
Total	500.0
Property - Finance	Points
First year	
316-101 Introductory Macroeconomics (p.1)	12.5
316-102 Introductory Microeconomics (p.1)	12.5
316-130 Quantitative Methods 1 (p.1)	12.5
3xx-xxx Level one commerce option	12.5
702-137 Construction Technology 1A (p.4)	12.5
702-115 Property 1 (p.12)	12.5
702-117 Management of Construction 1 (p.10)	12.5
702-138 Construction Technology 1B (p.5)	12.5
Second year	
316-205 Introductory Econometrics (p.1), or	12.5
316-206 Quantitative Methods 2 (p.1)	12.5
306-103 Accounting 1A (p.1)	12.5
306-104 Accounting 1B (p.1)	12.5
702-237 Construction Technology 2A (p.5)	12.5
705-173 Shaping the Metropolis (p.14)	12.5
702-238 Construction Technology 2B (p.5)	12.5
702-217 History of Building Construction (p.8)	12.5
451-102 Introduction To Surveying (B.P.D.) (p.4)	12.5
Third year	
316-202 Intermediate Microeconomics (p.1)	12.5
306-202 Intermediate Financial Accounting (p.2)	12.5
316-201 Intermediate Macroeconomics (p.1)	12.5
702-211 Property 2 (p.12)	12.5
702-216 Introduction to Cost Management (p.9)	12.5
702-219 Built-Environment Sciences (p.4)	12.5
702-416 Construction Law (p.4)	12.5
702-337 Construction Technology 3A (p.5)	12.5
Fourth year	
3xx-xxx Level two/three commerce options	25.0
333-201 Business Finance (p.1)	12.5
705-457 Planning for Shopping and Retailing (p.12)	12.5
702-419 Advanced Construction Law (p.1)	12.5
705-219 Planning and Development Management (p.11)	12.5
705-445 Planning Law (p.11)	12.5
702-353 Property 3 (p.13)	12.5
Fifth year	
316-306 Money and Banking (p.3)	12.5
333-301 Investments (p.1)	12.5
333-302 Corporate Finance (p.1)	12.5
333-303 International Finance (p.1)	12.5
702-412 Advanced Services (p.1)	12.5

Property - Finance

702-415	Property Asset Management (p.13)	Points	12.5
702-418	Property Development & Investment (p.13)		12.5
705-218	Transport and Land Use Planning (p.15)		12.5
Total		500.0	

Postgraduate programs in property and construction

Graduate Diploma in Planning and Design (Property and Construction)

The Graduate Diploma in Planning and Design (Building) provides a preparatory program of studies for entry to the BPC and MPC. It is open to graduates of bachelors degrees in building, quantity surveying, architecture, civil or structural engineering, or the equivalent. Applicants who do not have such formal qualifications, but do have considerable relevant professional experience, may also apply.

The graduate diploma is a one-year, full-time course or a two-year, part-time course of 100 points. Upon successful completion of the course with at least a grade average of 70 per cent, applicants may apply for entry into the Master of Property and Construction or Master of Building.

Please note: the Graduate Diploma on its own does not satisfy the professional requirements of the Australian Institute of Building, Australian Property Institute, the Royal Institution of Chartered Surveyors or the Australian Institute of Quantity Surveyors.

Master of Property and Construction

Applicants for the Master of Property and Construction by coursework program will normally hold a BPD (Hons) degree in property and construction or its equivalent. Other applicants with relevant professional experience may also apply, but may be required to do preliminary studies before being accepted for entry.

Candidates who enrol in the MPC will need to have undertaken approved practical experience in the property or construction industries.

Candidates who have completed the BPD (Property and Construction) (Hons) degree, as noted above, may enrol in the MPC by coursework to meet the academic requirements for membership of the Australian Institute of Building, Australian Property Institute, the Royal Institution of Chartered Surveyors and the Australian Institute of Quantity Surveyors. To achieve an MPC by coursework, students will normally have undertaken a total of five years of coursework plus approved industrial experience. The fast-track program enables students to achieve a MPC including industrial experience in five years.

Master of Building

Applicants for this research degree will normally either be graduates with a BPC (Hons) degree or hold a BPD (Hons) degree in Property and Construction or its equivalent. Candidates who enrol in the MBIldg will need to have undertaken an approved period of practical experience.

Landscape architecture

- Bachelor of Landscape Architecture*
- Bachelor of Arts (Planning and Design major)*
- Graduate Certificate in Landscape Architecture*
- Graduate Diploma in Landscape Architecture*
- Postgraduate Diploma in Planning and Design (Landscape Architecture)*
- Master of Landscape Architecture*

Bachelor of Landscape Architecture

The Bachelor of Landscape Architecture is a four-year degree designed to provide a professional education of high standing with a strong focus on the needs of the Australian and Asian professional landscape architectural markets. Each year of study is designed to link the development of skills and knowledge across various topic areas with the gradual expansion of design capabilities and scope, in scale and complexity. The early years of the program develop core knowledge and skills to enable students to make the most of the broader opportunities offered in later years. Computer technologies such as computer-aided design, geographic information systems and other applications are introduced progressively.

The degree is offered by the Faculty of Architecture, Building and Planning where specialist subjects in landscape architecture such as design, communication, construction and history are supplemented by those in the Faculty of Arts where environmental and cultural studies are based. The successful completion of the course ensures graduate membership of the Australian Institute of Landscape Architects (AILA) and is accredited as the education component for professional registration.

Career opportunities

Graduate landscape architects are in demand in government departments and agencies and in the private sector. Landscape architects are employed at all

levels of government from federal, through to state and local, in both metropolitan and non-metropolitan areas. Graduates are also employed in consultancy firms that specialise in landscape architecture and planning, and in multidisciplinary firms that provide services in urban design and planning, architecture and engineering. They also work in diverse groups such as conservation agencies and development companies. Many firms consult locally, interstate and in the Asian region and some are linked with international companies.

Course objectives

The course aims to:

- offer professional studies in landscape architecture leading to accreditation with the Australian Institute of Landscape Architects and thereby with professional accrediting bodies internationally;
- provide students with an understanding of the systems operating both in natural environments and in those environments that, as landscapes, manifest human intervention and culture;
- equip graduates with basic skills which will be necessary to enable them, as practising professionals, to intervene positively in the process of change to those landscapes through planning, design and management;
- teach landscape architecture as an intellectual and professional endeavour, which embodies, wherever it is practiced, a commitment to the continuing health and well-being of the environment and of human life.

Course structure - Bachelor of Landscape Architecture

First year	Points
Semester 1	
702-101 Architectural Design 1A (p.1)	12.5
702-120 Design Communications 1A (p.6)	12.5
702-102 City in History (p.4)	12.5
121-012 Environmental Change (p.2)	12.5
Semester 2	
705-174 Designing the Local Urban Landscape (p.7)	12.5
705-195 Landscape Materials (p.10)	12.5
702-121 Design Communications 1B (p.6)	12.5
121-013 Global Ecology and Biogeography (p.2)	12.5
Total	100.0
First year mid-year entry	
Summer Semester options	
702-104 Architectural Design 1C (p.2)	12.5
702-123 Design Communications 1C (p.6)	12.5
Second year	
Semester 1	
705-235 Designing the Middle Landscape (p.7)	12.5
705-273 CAD in Landscape Architecture (p.4)	12.5
705-294 Plants & Planting Design (p.12)	12.5
705-173 Shaping the Metropolis (p.14)	12.5
Semester 2	
705-236 Designing Conserved Natural Landscapes (p.7)	12.5
705-216 History of Landscape Architecture (p.8)	12.5
705-296 Site Engineering (p.14)	12.5
121-022 Development and Urban Environments (p.4)	12.5
Total	100.0
Second year mid-year entry	
Summer Semester option	
702-102 City in History (p.4)	12.5
Third year	
Semester 1	
705-435 Advanced Urban Planning and Design (p.1)	12.5
705-411 GIS for Planning and Management A (p.8)	12.5
702-421 Urban Design Theory (p.15)	12.5
121-435 Environmental Management Systems (p.6)	12.5
Semester 2	
705-436 Landscape Assessment and Planning (p.9)	12.5
705-484 Landscape Heritage (p.9)	12.5
121-030 Applied Ecology (p.5), or	25
121-017 Society and Environments (p.3)	12.5
Elective	12.5
Total	100.0
Fourth year	
Semester 1	
705-481 Advanced Landscape Design (p.1)	12.5
705-415 Perceptions of the Australian Landscape (p.11)	12.5
Electives	25.0
Semester 2	

Faculty of Architecture, Building and Planning

Fourth year	Points
705-429 Landscape Practice (<i>p.10</i>)	12.5
705-420 Designing the Sustainable Landscape (<i>p.7</i>)	25
Elective	12.5
Total	100.0

BLArch electives

Students will be expected to agree their elective program as a coordinated suite of subjects around a selected specialisation with the course coordinator in advance. Typical streams would include:

Environment: 121-028 Sustainable Development (*p.4*), 121-033 Environmental Hydrology A (*p.5*). Cultural studies: 121-016 Landscapes of Power (*p.3*). Technology: 705-412 GIS for Planning and Management B (*p.8*). Property: 702-115 Property 1 (*p.12*).

Bachelor of Arts (Planning and Design)

The Bachelor of Arts (BA) can provide a pre-professional course which enables students to pursue studies which lead to postgraduate landscape architecture programs in the Faculty of Architecture, Building and Planning.

Students who wish to proceed to professional studies in landscape architecture should enrol in the BA and take a major in planning and design, and a major in geography with an emphasis on physical geography. At the conclusion of the BA degree course, graduates are qualified to work in areas of landscape and environmental planning, design and management, either in private practice or in local or state government instrumentalities. To become a professionally qualified landscape architect you need to undertake further study in the Postgraduate Diploma and Master of Landscape Architecture program in the Faculty of Architecture, Building and Planning. The Master of Landscape Architecture degree is accredited by the Australian Institute of Landscape Architects, which enables graduates to practise as professional landscape architects.

Course structure

Refer to *Planning and design (p.1)* in the Faculty of Arts section of the Handbook.

Postgraduate programs in landscape architecture

The postgraduate programs in landscape architecture provide opportunities for graduates to develop specialist skills and expertise to complement their first professional qualifications. Three study options are available so that individual study programs can be developed around individual needs.

Graduate Certificate in Landscape Architecture

The Graduate Certificate in Landscape Architecture is a 50-point program designed for those who wish to pursue a specialisation in landscape architecture but do not seek professional registration in the first instance. The program is designed to prepare students for entry into the graduate diploma.

Graduate Diploma in Landscape Architecture

The Graduate Diploma in Landscape Architecture is a 100-point program designed to prepare students for entry into the Master of Landscape Architecture and for those who wish to pursue studies in landscape architecture for their own interest.

Postgraduate Diploma in Planning and Design (Landscape Architecture)

The Postgraduate Diploma in Planning and Design (Landscape Architecture) is available for students who have completed the planning and design double major in urban planning and geography and environmental studies in the Faculty of Arts at the University of Melbourne. These students can graduate with a professional qualification after completing the Postgraduate Diploma followed by the Master of Landscape Architecture.

Master of Landscape Architecture

The Master of Landscape Architecture is a 100-point program which satisfies the educational requirements of the Australian Institute of Landscape Architects.

For detailed information about these courses, refer to the faculty's Postgraduate Handbook.

Urban planning

Bachelor of Urban Planning and Development

Bachelor of Arts (Planning and Design)

Graduate Certificate in Urban Planning

Graduate Diploma in Urban Planning

Postgraduate Diploma in Planning and Design (Urban Planning)

Master of Urban Planning (by coursework)

Master of Planning and Design (by research)

Career options

Urban planners help shape cities and towns by trying to reconcile the competing demands for space for housing, work, play and movement. At the same time, they must consider questions of social equity, accessibility, environmental sustainability, compatibility and quality of life. To do this, they use a system of land use strategies and incentives, along with negotiating skills, to mediate and help resolve conflicts between residents, developers, industrialists, farmers, conservationists and government departments. Graduates are employed in both the private and the public sector. In the public sector, they are employed by state and local governments. In state government they advise on planning legislation and a wide range of policy issues such as metropolitan structure, urban design, streetscape, housing, industry and technology, transport, and open space. In local government they administer municipal planning schemes, give advice on the range of policy issues listed above, and provide detailed designs for specific projects. In the private sector, graduates are employed to advise clients on land development and dealings with the public sector in getting projects approved. This can involve researching the suitability and feasibility of specific development projects, presenting arguments in support of them, and preparing detailed designs for specific sites.

Bachelor of Urban Planning and Development

The Bachelor of Urban Planning and Development offers professional studies in urban planning leading to accreditation with the Royal Australian Planning Institute. It provides students with an analytical understanding of contemporary (and past) urban contexts, within which human intervention has occurred in the management of urban change. It aims to teach urban planning as an intellectual endeavour and a professional practice based on community obligation, a commitment to collective and diverse interests, and recognition of environmental and ecological constraints providing a strong focus of study which reflects the needs of the Australian and Asian professional planning markets.

Course structure - Bachelor of Urban Planning and Development

First year	Sem.
Urban planning subjects	
705-173 Shaping the Metropolis (<i>p.14</i>)	1
705-112 Skills for Urban Planning and Management (<i>p.14</i>)	1
705-117 Culture & History of Urban Planning (<i>p.5</i>)	N/A
705-118 Australian Urban Planning in History (<i>p.3</i>)	2
Geography/environmental studies subjects	
50 points of subjects from the Faculty of Arts including two of the following:	
121-012 Environmental Change (<i>p.2</i>)	1
121-010 Famine in the Modern World (<i>p.2</i>)	1
121-011 Australia in Asia (<i>p.2</i>)	2
121-013 Global Ecology and Biogeography (<i>p.2</i>)	2
Total	100.0
Second year	Sem.
Urban planning subjects	
50 points of the following:	
705-218 Transport and Land Use Planning (<i>p.15</i>)	1
705-289 Urbanisation and Urban Development (<i>p.15</i>)	1
705-219 Planning and Development Management (<i>p.11</i>) (compulsory subject which must be taken in second year)	2
705-174 Designing the Local Urban Landscape (<i>p.7</i>)	2
702-115 Property 1 (<i>p.12</i>)	1
Geography/environmental studies subjects	
50 points of subjects from the Faculty of Arts including three of the following:	
121-006 Urban Economic Geography (<i>p.2</i>) (compulsory subject)	1
121-021 Environmental Politics and Management (<i>p.4</i>)	1
121-015 Development and the Third World (<i>p.3</i>)	2
121-017 Society and Environments (<i>p.3</i>)	2
121-024 GIS and Remote Sensing in Geography (<i>p.4</i>)	2
121-022 Development and Urban Environments (<i>p.4</i>)	2
Total	100.0
Third and Fourth year	Sem.
Urban planning subjects	
50 points of third and fourth year subjects from:	
705-445 Planning Law (<i>p.11</i>) (compulsory subject which must be taken in third year)	1
705-320 Urban Development in Asian Megacities (<i>p.15</i>)	N/A
705-457 Planning for Shopping and Retailing (<i>p.12</i>)	1
705-435 Advanced Urban Planning and Design (<i>p.1</i>)	1
705-437 Social Planning for Urban Diversity (<i>p.14</i>) (not offered 2003)	2

Third and Fourth year

		Sem.
705-458	Planning Theory and Urban Governance (p.12) (not offered 2003)	2
705-412	GIS for Planning and Management B (p.8)	2
702-335	Housing Diversity (p.8) (not offered 2003)	1
702-211	Property 2 (p.12)	2
705-338	Planning Asian Cities (p.11) (not offered 2003)	N/A
705-419	Advanced Transport Planning (p.1) (not offered 2002)	2
702-330	Housing Sustainability (p.8) (not offered 2002)	N/A
705-441	Western Lineages of Urban Planning (p.15) (not offered 2002)	N/A

Geography and environmental studies subjects

50 points of subjects from the Faculty of Arts including two of the following:

121-016	Landscapes of Power (p.3) (not offered 2003)	1
121-028	Sustainable Development (p.4)	2
121-026	The Mobile World: Migration and Tourism (p.8)	N/A

Total **100.0**

Fourth year only subjects

Urban planning subjects

		Sem.
705-403	Research Project C (p.13) (compulsory for honours students)	Year

Geography/environmental studies subjects

50 points of subjects from the Faculty of Arts including two of the following:

121-420	Environmental Impact Assessment (p.2)	1
121-454	Computer-aided Policymaking (p.7)	1 rep 2
121-432	Environmental Field Class (p.8)	N/A
121-421	Social Impact Assessment (p.2)	2
121-433	China Field Class (p.6)	2

Total **100.0**

Honours

Honours in planning is awarded within the four-year degree, to students who undertake the subject 705-403 Research Project C and achieve a minimum overall fourth year grade of H2B. Honours in an Arts Faculty discipline would require a fifth year of study in the relevant discipline. Check the Undergraduate Studies Handbook and the faculty office for prerequisites and further information.

Bachelor of Arts (Planning and Design)

The Bachelor of Arts (BA) can provide a pre-professional course which enables students to pursue studies which lead to postgraduate urban planning programs in the Faculty of Architecture, Building and Planning.

Students completing the major at the pass (three-year) level, together with appropriate studies in geography, should have met the requirements for selection into a one-year Postgraduate Diploma in Planning and Design (Urban Planning). Students successfully completing the Postgraduate Diploma would normally satisfy the academic requirement for membership of the Royal Australian Planning Institute.

Course structure

Refer to *Planning and design* (p.1) in the Faculty of Arts section of the Handbook.

Postgraduate programs in urban planning

Graduate Diploma in Urban Planning

The Graduate Diploma in Urban Planning is a 100-point program providing a range of options that provide a grounding in urban planning for graduates of disciplines other than urban planning, and a pathway of entry to the Master of Urban Planning program.

Graduate Certificate in Urban Planning

The Graduate Certificate in Urban Planning provides professional development options for practitioners in the built environment. The Graduate Certificate is a 50-point program intended for those who wish to increase their knowledge in a specialist field but cannot spend the time required for a graduate diploma or masters degree. It is designed as an intermediate step towards a Graduate Diploma or Master of Urban Planning degree as well as providing a specialist qualification standing on its own.

Postgraduate Diploma in Planning and Design (Urban Planning)

The Postgraduate Diploma in Planning and Design (Urban Planning) is available for students who have completed the planning and design double major in urban planning and geography and environmental studies in the Faculty of Arts at the University of Melbourne. These students can graduate with a professional qualification after the postgraduate diploma.

Master of Urban Planning

The Master of Urban Planning is a 100-point program which satisfies the educational requirements of the Royal Australian Planning Institute. Entry into the Master of Urban Planning requires satisfactory completion of either a four-year undergraduate degree in urban planning or a minimum of 100 points of preliminary studies in the form of a graduate diploma.

For detailed information about these programs refer to the faculty's Postgraduate Handbook.

Quota subjects

The following subjects in the Faculty of Architecture, Building and Planning have restricted enrolment numbers in 2002 due to lab and workshop limitations.

Subject	Semester	Places available
702-347 Digital Visualisation (p.7)	2	52
702-402 Digital Speculations (p.7)	1	16
702-334 Rendering as a Graphic Communication (p.13)	2	48
702-312 Timber Furniture Workshop (p.15)	2	16

Selection procedure

Selection into quota subjects is based on academic merit. Students who apply for a place in a quota subject will be ranked according to the weighted average of their course results. Places in each subject will be offered in accordance with the applicant's rank on the list until all places available in the subject have been filled.

Enrolment procedure

Students need to indicate their wish to be considered for a place in quota subjects on their course plan for 2002. There are two rounds of offers into quota restricted subjects prior to the start of each semester. Students will automatically be considered for the quota subjects they have selected on their course plan in round two if they are not offered a place in round one.

Round one quota offers will be included on the authorised enrolment record. Confirmation of the enrolment will signify acceptance of the place in the quota subjects. Failure to confirm the enrolment by Wednesday 16 January may jeopardise the place in the quota subject. Round two offers will be made early in February and successful students must confirm their place in the subject by Friday 22 February.

In July of each year, a 'top-up' of places in Semester 2 quota subjects occurs (round three). Students who have not previously applied for a place in Semester 2 quota subjects will need to submit the quota subject request form to the Faculty of Architecture Building and Planning Student Services Office before the submission deadline of Friday 31 May. Students who are offered a place in a quota subject will be notified by mail.

Students offered a place in quota subjects in round three will need to confirm acceptance of the place before Friday 19 July to secure their place. It is therefore important to ensure that you have informed the Student Services Office of your current postal address.

Credit for previous studies

Students may be eligible for exemptions from, or credit for, certain subjects in their courses. Students should seek advice from their course coordinators. However, advice from course coordinators alone does not constitute official approval. All granting of credits and exemptions must be approved by the Student Services Office and must be in writing. It is the student's responsibility to seek such written approval. Students should be aware that there are certain University restrictions which apply to the granting of credit and exemptions, some of which are detailed below. The regulation should be read and understood by any student wishing to receive credit or exemption either: a. towards the final year of any course; or b. towards more than 50 per cent of any one- or two-year course. If you do not understand the regulation, or you have questions about other situations regarding credit, please seek appropriate advice from the Student Services Office or the student union legal adviser; it is in your interest to do so to avoid potential conflicts.

UNIVERSITY STATUTE 11.1.9 (1) - Limitations on Granting of Credits

Credits shall not be given for, or exemptions granted from passing in: a. any subject of the final year, if a course for the bachelors degree is divided into years; or b. any subject which, for the purposes of this section, is considered by the faculty to be a final year subject, if a course for the bachelors degree is

not divided into years; or c. more than one-half of the work of the course, as determined by the faculty, if the duration of the full-time course does not normally exceed two years.

Complaint resolution

Complaints regarding academic matters

If a student is unable to resolve a serious problem with a lecturer/supervisor, the matter should be taken up with the Head of Program. If the Head of Program is unable to resolve the problem, the matter may then be referred to the Dean.

Complaints regarding administrative matters

Students who have any enrolment administrative difficulties in the faculty should first ask the manager (student services) for help. If the manager (student services) is unable to resolve the problem the matter should then be referred to the faculty general manager.

These steps should be taken as soon as the problem arises. Help is also available from the Student Union, the University of Melbourne Postgraduate Association, the University Counselling Service and the University's equal opportunity officer.

Unsatisfactory progress

In accordance with the provisions of Statute 11.5, each semester the Faculty of Architecture, Building and Planning reviews the academic progress of all undergraduate students, and postgraduate coursework students. Students whose progress is considered to be unsatisfactory are invited to appear before the faculty's Unsatisfactory Progress Committee and to provide a written submission to the committee concerning the circumstances which they believe contributed to their unsatisfactory progress, and any evidence of changed circumstances which they believe may result in an improved performance in the future.

- Suspension from the course
 - Students may be recommended for suspension if, following their attempt at the performance in a component or components of assessment they:
 - fail in at least 50 points of subjects
 - fail in any subject for the second time
- Repeating subjects
 - Urban planning and landscape architecture students may be permitted to undertake a limited number of later-year subjects whilst repeating a year's subjects. Students will normally be required to have credit for at least 50 points in a level before attempting any higher level subjects. This permission to undertake later-year subjects will not be given to architecture students and property and construction students, who normally must have credit for at least 100 points in one level before attempting any higher level subjects.
 - Where the faculty has determined that prerequisite studies be undertaken for particular subjects, enrolment for those subjects will not normally be approved until the prerequisites have been satisfied.
- General
 - In considering a student's progress the faculty would normally take into account personal, financial and study problems.

Students recommended for suspension have a right to be heard by the Academic Board, but if the board confirms the recommendation the student will be suspended. Students suspended from a course offered by the faculty may apply for re-admission to that course in a subsequent year.

If the faculty and the Academic Board are satisfied that a student's condition or circumstances are so changed that there is a reasonable probability the student will make satisfactory progress, the student's re-admission may be authorised, subject to the imposition of any necessary conditions. Academic rehabilitation is normally demonstrated by the satisfactory completion of studies of a similar nature at another institution.

Undergraduate entry

The following VCE subjects are prerequisites:

Architecture: Units 3 and 4 - a study score of at least 25 in each of English and Mathematical Methods;

Property and construction: Units 3 and 4 - a study score of at least 25 in each of English and Mathematical Methods;

Geomatic engineering/property and construction: Units 3 and 4 - a study score of at least 25 in each of English and Mathematical Methods;

Commerce/property and construction: Units 3 and 4 - a study score of at least 25 in each of English and Mathematical Methods;

Law/property and construction: Units 3 and 4 - a study score of at least 25 in each of English and Mathematical Methods;

Landscape architecture: Units 3 and 4 - a study score of at least 25 in English;

Urban planning and development: Units 3 and 4 - a study score of at least 25 in English;

Bachelor of Arts (Planning and Design): Units 3 and 4 - a study score of at least 25 in English;

For landscape architecture and urban planning a background in any of economics, geography, history, politics or law is a valuable asset. In all of the professional streams a capacity for creative problem-solving, an imaginative understanding of people's needs and aspirations, and an ability to communicate and organise are all highly desirable.

Careers for architecture, building and planning graduates

Architecture

A typical role for an architect is to head the team which designs buildings (which may consist of structural, mechanical and electrical engineers, quantity surveyors, land surveyors, property consultants and interior designers).

An architect in a small firm, however, may design buildings, document them (which takes an extensive knowledge of structures, materials and law), administer contracts, run an office and keep the business financially viable.

Many architects combine careers (architect/developer, architect/builder, architect/lawyer, architect/planner). Some enter service industries, specialising, for instance, in furniture design and manufacture or programming for computer-aided design.

Property and construction

Graduates in property and construction, depending on their majors, find employment in construction or project management or in the cost management of building projects (quantity surveying). They may begin on site (often as a coordinator or construction programmer) or in a contractor's office (as a contract administrator, estimator, or cost or project planner).

As construction managers they consult with designers on how a building will be erected, plan the job and the logistics, and manage labour, materials and equipment.

As quantity surveyors they take responsibility for the financial feasibility of potential projects and, when under construction, for cost monitoring and cost control.

Property and construction graduates also work as directors of real estate firms in sales, leasing, property management and valuation; computer systems designers; consultants in historic buildings; commercial arbitrators; commercial property and volume home building contractors; in specialist subcontracting, maintenance and renovation; and as teachers, researchers and academics.

Landscape architecture

Graduate landscape architects are in demand in government departments and agencies and in the private sector. Landscape architects are employed at all levels of government from federal, through to state and local, in both metropolitan and non-metropolitan areas. Graduates are also employed in consultancy firms that specialise in landscape architecture and planning, and in multidisciplinary firms that provide services in urban design and planning, architecture and engineering. They also work in diverse groups such as conservation agencies and development companies. Many firms consult interstate and in the Asian region as well as locally and some are linked with international companies.

Urban planning

Planning graduates work in government agencies such as the Department of Infrastructure and the Environment Protection Authority, or for local government. They may also work in private practices.

Urban planners help shape cities and towns and solve urban problems. They work to ensure that transport facilities are well located, shops and jobs are conveniently placed, houses are built away from factories, which developments should proceed, and which buildings or spaces should be preserved.

With a four-year BUPD, graduates are qualified to work as accredited town planners for local councils, government departments, planning consultancies or development companies.

Further information

For further information about courses:

Student Services Office
Faculty of Architecture, Building and Planning
The University of Melbourne
Victoria 3010
Telephone: +61 3 8344 6430/6450
Fax: +61 3 8344 5532
Email: info@architecture.unimelb.edu.au

Web: www.arbld.unimelb.edu.au