

Faculty of the Built Environment

A Message from the Dean

Welcome to the Faculty of Built Environment (FBE) at UNSW. I hope you find the information in this Handbook helpful in understanding the programs offered in our Faculty. The structure of FBE is unique in Australia in the range of disciplines it offers including Architecture, Building, Industrial Design, Interior Architecture, Landscape Architecture and Planning & Urban Development. FBE is structured to encourage synergy between the disciplines and flexibility for students in the range of courses they can take. Students have the opportunity to gain both expertise in their chosen disciplines and to become familiar with the concepts and ideas of the other disciplines in the Faculty. In reading this Handbook you will discover the wide range of courses on offer.

The undergraduate and postgraduate programs offered by the Faculty are well established and well regarded by employers. Each program integrates the academic knowledge and practical skills required for professional practice. Undergraduate students also have the option of selecting from a number of combined degrees offered in conjunction with other faculties.

Around 20 per cent of our students are international students. FBE has a reputation for the excellence of its staff and students and is professionally recognised nationally and internationally. The Faculty receives strong industry support and extensive international academic links provide opportunities for exchange and collaboration in learning and research.

If you have further questions after reading through this Handbook, please do not hesitate to obtain advice from your lecturers and from the Faculty administrative staff at all stages of your study. You may also wish to visit FBE's website at: www.fbe.unsw.edu.au

Peter A Murphy
Dean
Faculty of the Built Environment

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Faculty Information and Assistance

Who Can Help?

This section of the Handbook is designed as a detailed source of information in all matters related to the Faculty of the Built Environment.

If you require advice about enrolment, degree requirements, progression within programs, information and advice about course content and requirements, contact the Faculty Student Centre, Level 3, Red Centre Building.

To speak to any of the Undergraduate Program Heads, you need to make an appointment through the Undergraduate Programs Office located on Level 4, Red Centre Building.

For assistance with access to the computing resources of the Faculty, please visit the Built Environment Computing Unit office located in room 2032, Level 2, Red Centre Building.

The Faculty of the Built Environment Website

Please refer to the Faculty website for further information. The website provides detailed information on the Faculty's programs, staff, research and events as well as exhibits of student work and an extensive online learning resource. Here you will find ready information on almost any matter that affects your life within the FBE: www.fbe.unsw.edu.au

The Faculty

The Faculty of the Built Environment offers the following undergraduate degree programs: BArch, BSc(Arch), BIA, BBCM, BIndDes, BLArch and BPlan. These programs provide professional education in the fields of architecture, industrial design, building, quantity surveying, interior architecture, landscape architecture and planning. Put more generally, these programs provide education and training in the arts and sciences involved in the design and construction of buildings, in the development of cities, in landscape design and the development of manufactured products. In addition to professional and vocational training, the programs include general education courses to provide graduates with a broad understanding of the humanities and the social sciences. In addition, the Faculty offers a range of combined degrees with other faculties such as Arts and Social Sciences, Law and the Institute of Environmental Studies.

Course Descriptions

Descriptions of courses offered in 2006 can be found in alphabetical order by the course code at the back of this Handbook or in the Online Handbook at www.handbook.unsw.edu.au

Computing Information

The Faculty has five major computing laboratories containing 80 personal computers available for general use by students in the Faculty. These laboratories are used for teaching formal classes, as well as providing general network and computing access for students 24 hours a day. The computers are higher end PC workstations configured to support a wide range of applications including: CAD, modelling, rendering, visualisation, multimedia presentations, GIS, analysis, general office applications and much more. The Faculty's Resource Centre and Postgraduate labs add a further 40 computers to this mix which is complemented by the student accessible wireless networking in and around the Faculty.

These laboratory resources are supported by a range of devices and services from standard printers, plotters and scanners to notebooks, digital cameras and projectors for presentations. The Faculty offers a printing service providing large format colour printing, photo-quality output and laminating. This will allow student presentations to exceed professional quality. The labs provide an environment where the computing technology can be utilised throughout the wide range of courses offered across the Built Environment's disciplines.

All these computers are connected to the Campus Wide Network, providing secure online file storage, access for students to the information resources supported by the Faculty and the University generally, as well as the international resources of the Internet.

Student Ownership of Personal Computers

The Faculty encourages all students to consider the purchase of a personal computer to support their studies. The prevailing policy is that the Faculty endeavours to provide for the high-end computing needs of students in the belief that many students are able to meet their own needs for more basic applications. To that end, the Faculty publishes a document which is available on the website, providing advice to students regarding the purchase of personal computers, software and network connectivity.

Enrolment Procedures

All students re-enrolling in the Faculty will re-enrol online via myUNSW. Instructions can be found on the FBE website.

Faculty Electives

The Faculty offers a broad range of over 100 elective courses that may be selected as part of any of the undergraduate programs. They are also generally available to all students in the University, subject to appropriate prerequisite knowledge. These may be identified in the course descriptions at the end of this Handbook as they all have course codes in the form BENVXXXX. These courses are generally offered in only one session each year and students are advised to check availability and timetabling for these electives on the Faculty website.

In addition, students may take many of the core courses associated with the other programs in the Faculty as electives. Details of these options are explained on the website.

General Education Requirements

The University's basic requirements are the same for students in all single degree programs.

(a) Students must satisfactorily complete a minimum of 12 units of credit in General Education courses or their equivalent (unless entitled to exemption as prescribed in the University rules). Combined degrees offered with another faculty are deemed to satisfy this requirement within the prescribed program.

(b) Students must undertake 56 hours of study which examine the purposes and consequences of their university education and which fosters socially, ethically and professionally responsible behaviour. Most programs in the Faculty of the Built Environment fulfill this requirement as part of the normal program curriculum. However, in the case of both the BBCM and BSc(Arch) programs, students are required to take BENV1382 Social Responsibility and Professional Ethics in part fulfillment of this requirement.

Student Exchange

The University has established an extensive and growing number of student exchange programs with universities around the world. The Faculty strongly encourages all students to consider participating in one of the

programs for one or two semesters. Contact UNSW Exchange Office for detailed information on course options and scholarships or refer to the website: www.international.unsw.edu.au

Societies and Clubs

The Faculty of the Built Environment has a number of student clubs including BIAS (Bachelor of Interior Architecture Students), TAC (The Architecture Club), BUGS (Building Undergraduate Society), IDSOC (Industrial Design Society), SOLA (Society of Landscape Architects) and OOPS (Organisation of Planning Students).

Faculty of the Built Environment Resource Centre

The Resource Centre is located on the ground floor of the Red Centre Building and serves the day-to-day needs of the staff and students in the Faculty. It provides information services based on both print and electronic resources. The reference collection, which has no lending facilities, consists of textbooks and recommended reading, background information to programs, serials and standards (these being duplicated in the Physical Sciences Library). Unique materials held consist of donations, undergraduate theses, trade catalogues and an open reserve collection of specific materials left by lecturers to supplement program work.

The Resource Centre computers provide access to library catalogues and other online databases, email facilities and the Internet and six of the computers have word processing facilities. Photocopying facilities are also provided.

Assistance is provided by the librarian in using the Centre's resources and developing information retrieval skills. In addition, a printed guide on how to use the Resource Centre is issued to each student. During Session 1 & 2, the Resource Centre is open from 8.30am to 6.00pm Monday to Thursday, 8.30am to 4.00pm on Friday. Out of session, the Resource Centre is open from 8.30am to 4.00pm Monday to Friday, closed all January, weekends and public holidays.

Faculty Regulations for Undergraduate Study

1. Open Elective courses may be selected from any program offered at the University of New South Wales, provided such course has not been taken to fulfill any other requirement of the Degree Rules. There is a wide range of electives offered within the Faculty. Open electives selected outside the Faculty of the Built Environment are subject to the approval of the Faculty. Open Electives may also be selected from courses offered by other institutions, but only with the approval of the Program Head and at an agreed unit value approved by the Program Head.

2. As a general guide, expected normal student workload is 2 hours per week per unit of credit, including both class contact time as well as individual study, completion of assigned work and exam preparation where appropriate. Students are strongly advised not to over commit themselves to paid work or voluntary activities that will impinge on that level of time commitment to their studies. Such external commitments will not be taken into consideration in relation to matters such as extensions of time for submission of project work or failure to attend classes or examinations.

3. Where reference is made to the requirement that a student complete units of credit by taking one or more courses, that requirement shall be construed as meaning that the student shall:

- attend at least 80% of all lectures, studios, tutorials or other classes, including site visits or other activities as may be prescribed in that course, always maintaining a satisfactory standard of preparation for and participation in such classes and activities.
- perform satisfactorily in such exercises, essays, theses, and other work (whether written, oral or practical) as may be prescribed in that course, and undertake any prescribed reading related to that subject.
- achieve a satisfactory standard in all examinations and other assessable tasks assigned for that course.

4. In general, students admitted with advanced standing into programs within the Faculty are given units of credit towards the degree for all appropriate courses completed at UNSW or other approved institutions. This is in the form of full session exemptions and/or specified exemptions in particular courses. Such credit will not normally be given for study undertaken more than 7 years before the date of admission to the program, except with the approval of the Program Head.

5. Notwithstanding any advanced standing that may have been granted upon entry to a program, students may seek exemptions in specific courses on the basis of appropriate study or experience. Where such an exemption is granted for study at an approved institution, students are normally awarded the appropriate units of credit, unless such credit

has already been allowed as part of admission with advanced standing. Where the exemption is granted on the basis of knowledge or skills gained through experience, students would normally be required to complete the equivalent units of credit as open electives.

6. In general, progression in all programs offered by the Faculty is managed by individual course prerequisites. Except with the permission of the Program Head, students are required to complete all stated prerequisites before enrolling in any course, and must always repeat any failed course on the next occasion that it is offered.

7. Except with the permission of the Program Head, where two courses are shown as corequisite, they must be taken concurrently on the first occasion any one is attempted.

8. Students wishing to take courses additional to those required for the award should be aware that the relevant courses will attract an additional fee, payable up front.

9. Students may not enrol in two design studios as core courses in any one session.

Program Rules and Information

3255 Bachelor of Interior Architecture

BIA

Typical Duration

4 years

Minimum UOC for Award

192 units of credit

Typical UOC per Session

24 units of credit

Program Head: Judith O'Callaghan

Program Description

Interior Architecture is the specialist area of architecture concerned predominantly with interior environments.

The professional practice of the discipline demands simultaneously a broad theoretical as well as a focused practical education in both the art and the science of architecture and design. The interior designer must have a professional understanding and concern for client and community in a seamless integration of the work with all elements of the built environment. (It should be noted that, unlike elsewhere in the world, use of the title 'Interior Architect' in Australia is not permitted under current Australian legislation).

The Bachelor of Interior Architecture is a four-year full-time semester-based program consisting of core and elective courses with design as the central concern. The Design Studio is the focus for the application of the theoretical material delivered in all courses in the program as well as developing and presenting its own.

Program Objectives and Learning Outcomes

On completion of the program, students will have attained a sound knowledge base in the field of Interior Architecture.

Program Structure

Year 1

Session One

INTA2101	Design Studio 1	(6 UOC)
INTA2111	Theory 1	(3 UOC)
INTA2121	History 1	(3 UOC)
INTA2141	Communications 1	(6 UOC)
INTA2171	Technology 1	(6 UOC)

Session Two

INTA2172	Technology 2	(6 UOC)
INTA2102	Design Studio 2	(6 UOC)
INTA2112	Theory 2	(3 UOC)
INTA2122	History 2	(3 UOC)
INTA2142	Communications 2	(6 UOC)

Year 2

Session One

INTA2271	Technology 3	(3 UOC)
INTA2201	Design Studio 3	(6 UOC)
INTA2211	Theory 3	(3 UOC)
INTA2221	History 3	(3 UOC)

INTA2241	Communications 3	(3 UOC)
General Education/Open electives		(6 UOC)

Session Two

INTA2272	Technology 4	(3 UOC)
INTA2202	Design Studio 4	(6 UOC)
INTA2212	Theory 4	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
INTA2222	History 4	(3 UOC)
General Education/Open electives		(6 UOC)

Year 3

Session One

INTA2371	Technology 5	(3 UOC)
INTA2301	Design Studio 5	(6 UOC)
BENV1341	Design Modelling and Visualisation	(3 UOC)
General Education/Open electives		(12 UOC)

Session Two

INTA2372	Technology 6	(3 UOC)
INTA2302	Design Studio 6	(6 UOC)
INTA2382	Professional Practice 1	(3 UOC)
General Education/Open electives		(12 UOC)

Year 4

Session One

INTA2401	Design Studio 7	(6 UOC)
INTA2411	Dissertation	(6 UOC)
INTA2441	Project Research	(6 UOC)
Open electives		(6 UOC)

Session Two

INTA2402	Graduation Project	(15 UOC)
INTA2482	Professional Practice 2	(3 UOC)
Open electives		(6 UOC)

Student Exchange

Students in the BIA program may go on exchange any time after the completion of Year 2.

Honours

The Bachelor of Interior Architecture degree may be awarded with Honours based upon the quality of performance in the program and in accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Academic Rules

1. The degree of Bachelor of Interior Architecture is awarded at either Pass or Honours level after the successful completion of a minimum of 192 units of credit.
2. To fulfil these requirements, students must complete:
 - 144 units of core courses, being all those prescribed in the Faculty regulations for this program;
 - 18 units of open electives, selected in accordance with the Faculty regulations for undergraduate study in the Faculty of the Built Environment;
 - 18 units of FBE electives, selected in accordance with the Faculty regulations for this program;
 - 12 units of General Education courses in accordance with University requirements.
3. The standard duration of the program is 4 years consisting of 8 semesters of full-time study (24 units of credit per semester).
4. General Education courses may not be taken before a student enters Year 2 of the Program.

Professional Recognition

The UNSW degree of Bachelor of Interior Architecture is recognised by the Design Institute of Australia (DIA - the professional body representing Interior Architecture/Interior Design in Australia) and the International Federation of Interior Architects (IFI). Students enrolled in the program are eligible to apply for student membership of the DIA and Associate membership upon graduation. Full membership requires two years of approved professional experience after graduation.

The BIA program at UNSW is also a member of IDEA (Interior Design/Interior Architecture Educators Association) representing all 4 year university degree programs in the discipline in the region.

3260 Bachelor of Architecture

BArch

Typical Duration

5.5 years

Minimum UOC for Award

264 units of credit

Typical UOC per Session

24 units of credit

Program Head: To be advised

Program Description

The Bachelor of Architecture degree provides academic education and practical experience leading to professional qualifications in architecture. It requires full time attendance for five years plus six months work experience that must be completed prior to the Graduation Project.

Progression through the program is by years, each comprising two semester-long design studios and their corresponding corequisites. In most years these design studios and corequisites may be taken in either order in any one year to facilitate mid-year entry to the program where required. However courses must be taken in the session they are offered at the first available opportunity. Admission to each year is subject to the successful completion of the preceding design stages and a majority of their corequisite courses, except where approval has been given by the Program Head.

Program Objectives and Learning Outcomes

There are two central goals. The primary goal is to equip students with the theoretical and practical knowledge, skills and techniques needed for the design, documentation and administration of building construction. A more general goal is to provide students with an all-round general problem-solving education. Lectures and practical sessions cover theoretical knowledge in the following areas:

- Architectural Design
- Architectural Communications
- Architectural History and Theory
- Architectural Technology
- Architectural Practice

Program Structure

Year 1

Session One

ARCH1171	Architectural Technologies 1	(9 UOC)
BENV1141	Computers and Information Technology	(3 UOC)
ARCH1121	Architectural History and Theory 1	(4 UOC)
BENV1101	Design Fundamentals: Studio 1	(8 UOC)

Session Two

ARCH1172	Architectural Technologies 2	(8 UOC)
ARCH1102	Architectural Design Workshop 1	(8 UOC)
ARCH1122	Architectural History and Theory 2	(4 UOC)
ARCH1142	Communications 1	(4 UOC)

Year 2

Session One

ARCH1271	Architectural Technologies 3	(6 UOC)
ARCH1201	Architectural Design Workshop 2	(8 UOC)
ARCH1221	Architectural History and Theory 3	(4 UOC)
ARCH1241	Communications 2	(3 UOC)
	General Education	(3 UOC)

Session Two

ARCH1272	Architectural Technologies 4	(4 UOC)
ARCH1202	Architectural Design Workshop 3	(8 UOC)
ARCH1282	Research Practice	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
ARCH1222	Architectural History and Theory 4	(3 UOC)
	General Education	(3 UOC)

Year 3

Session One

ARCH1371	Architectural Technologies 5	(4 UOC)
ARCH1301	Architectural Design Studio 1	(8 UOC)
BENV1341	Design Modelling and Visualisation	(3 UOC)
ARCH1321	Architectural History and Theory 5	(3 UOC)

Electives	(3 UOC)
General Education	(3 UOC)

Session Two

ARCH1302	Architectural Design Studio 2	(9 UOC)
ARCH1382	Practicum	(3 UOC)
Electives	(9 UOC)	
General Education	(3 UOC)	

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Year 4

Session One

ARCH1401	Architectural Design Studio 3	(9 UOC)
Electives	(15 UOC)	

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Session Two

ARCH1470	Building Services 1 & 2	(6 UOC)
ARCH1381	Professional Practice 1	(3 UOC)
ARCH1402	Architectural Design Studio 4	(9 UOC)
Electives	(6 UOC)	

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Additional Requirement

(Completed after Year 1 and before Year 5)

ARCH1583	Work Experience	(24 UOC)
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Year 5

Session One

ARCH1501	Investigation Workshop	(9 UOC)
ARCH1582	Professional Practice 2	(6 UOC)
Electives	(9 UOC)	

Session Two

ARCH1502	Graduation Project	(9 UOC)
Electives	(15 UOC)	

General Education Requirements

Students in this program must also satisfy the University's General Education requirements. For further information, please refer to the Academic Rules section and the General Education section in this Handbook.

Honours

The Bachelor of Architecture degree may be awarded with Honours based on the quality of performance in the program and in accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

In order to be considered for the University Medal, students must have completed at least 3 years of study towards their BArch degree at the University of New South Wales.

Academic Rules

1. The degree of Bachelor of Architecture is awarded at either pass or honours level after the successful completion of a minimum of 264 units of credit.

2. To fulfil these requirements, students must complete:

- 171 units of core courses, being all those prescribed in the in the faculty regulations for this program;
- 24 units of work experience completed after Year 1 and before Year 5 as prescribed in the faculty regulations for this program;
- 18 units of FBE electives, selected in accordance with the faculty regulations for this program;
- 39 units of open electives, selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment;
- 12 units of General Education in accordance with University requirements.

3. The standard duration of the program is 5.5 years consisting of 10 semesters of full-time study (24 units of credit per semester) plus 1 semester of required work experience.

4. General Education courses may not be taken before a student enters Year 2 of the Program.

5. Students are not able to enrol in two design studios concurrently.

Professional Recognition

The Degree of Bachelor of Architecture from the University of New South Wales is accredited by the Board of Architects of New South Wales for the purpose of registration and is recognised by the Royal Australian Institute of Architects (RAIA).

Graduates are eligible for Graduate Membership of the Royal Australian Institute of Architects. Students enrolled in the BArch program (3260) or the BSc(Arch) program (3265) or any of the combined BArch programs are eligible to become Student Members of the Royal Australian Institute of Architects. SONA (Student Organised Network for Architecture Australia) is the national student organisation affiliated with RAIA.

In addition, for registration as an architect in NSW, candidates must satisfy the following requirements:

1. Produce evidence of two years approved work experience, at least one of which has been subsequent to the completion of the program; and
2. Pass an examination in Architectural Practice administered by the NSW Board of Architects.

Faculty Regulations for the BArch

FBE Electives

Faculty of the Built Environment (FBE) electives must be selected from those offered by the FBE. General Education Electives may not be substituted for either FBE or Open Electives.

Work Experience

Each student is required to undertake 24 weeks of off-campus activity in the pursuit of architectural work experience. Ideally, this is undertaken as a single block of time working in an architectural design office. Where this is the case and it overlaps a normal academic session, students should enrol in ARCH1583 and are not permitted to enrol in any other courses concurrently.

Work experience may also be carried out in several smaller components during summer breaks, provided that no such component is less than eight weeks in duration. Where this is the case, students must enrol in ARCH1583 for the summer session in which they are completing their work experience requirements.

If students wish to propose an alternative experience to that carried out in a registered architect's office, approval must be given by the Program Head. In all events, assessment is only within the terms of the course ARCH1583 Work Experience in the Bachelor of Architecture degree program. The Architecture Program takes no responsibility for any assessment or consideration for registration with the Board of Architects of New South Wales or membership of the Royal Australian Institute of Architects.

Composite Courses

Where a composite course is failed, all component parts must be repeated. This includes the courses in the technology core. To achieve a pass result in technology core courses, at least two components must be passed.

Progression

After Year 2, progression in the Design stream requires a pass level to be gained in the previous session's Design Studio. No two design studios can be taken concurrently.

A Progress Portfolio will be submitted at the end of third year as part of the assessment for ARCH1302 and to determine progression into fourth year of design. Similarly another Progress Portfolio will be submitted at the end of fourth year which will determine progression into final year.

A Progress Portfolio will also be submitted during third year as part of the assessment for ARCH1371 and to determine progression into the fourth year course ARCH1470.

3265 Bachelor of Science (Architecture)

BSc(Arch)

Typical Duration

3 years

Minimum UOC for Award

144 units of credit

Typical UOC per Session

24 units of credit

Program Head: Graham Bell

Program Coordinator: Stephen Peter

Program Description

This program provides an opportunity for students to undertake studies within the discipline of architecture, generally within a well-defined area of specialisation.

At present, a formal specialisation is offered in the area of architectural computing, but the opportunity exists for any major to be identified through consultation with the Program Coordinator. Where at least 24 units of electives and both research projects have been completed within the area of specialisation, then that major will be identified on the degree testamur. The program can also be undertaken with no identified major, in which case it is referred to as the generalist stream and no major is identified on the testamur at graduation.

The program is normally completed in three years of full-time study. Year 1 is taken in common with BArch students. In Year 2, students undertake courses in their area of specialisation. During Year 3 of the program, students undertake two research projects that provide an opportunity to explore areas of specialised interest in considerable depth.

The program allows students to select courses based on their interests. These could include: technology, history, theory and communications. The computing major educates students in architectural computing and allows students to specialise in an area of computing such as: computer-aided design (CAD), building modelling, rendering, animation, multimedia and IT management.

Program Objectives and Learning Outcomes

The Bachelor of Science (Architecture) degree is a three year full-time program with an optional fourth year for Honours. The first year introduces the fundamental concepts of Architecture and is undertaken as a common year with the Bachelor of Architecture program. During the second and third years, students concentrate on an area of specialisation. At present, the main area of specialisation is architectural computing.

Program Structure

Year 1

Session One

ARCH1171	Architectural Technologies 1	(9 UOC)
BENV1141	Computers and Information Technology	(3 UOC)
ARCH1121	Architectural History and Theory 1	(4 UOC)
BENV1101	Design Fundamentals: Studio 1	(8 UOC)

Session Two

ARCH1172	Architectural Technologies 2	(8 UOC)
ARCH1102	Architectural Design Workshop 1	(8 UOC)
ARCH1122	Architectural History and Theory 2	(4 UOC)
ARCH1142	Communications 1	(4 UOC)

Year 2

Session One

ARCH1241	Communications 2	(3 UOC)
Electives		(18 UOC)
General Education		(3 UOC)

Session Two

ARCH1282	Research Practice	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
Electives		(15 UOC)
General Education		(3 UOC)

Year 3

Session One

BENV1382	Social Responsibility and Professional Ethics	(3 UOC)
ARCH1398	Research Project 1	(6 UOC)
Electives		(12 UOC)
General Education		(3 UOC)

Year 4

Session One

ARCH1498	Honours Project 1	(24 UOC)
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Session Two

ARCH1499	Honours Project 2	(24 UOC)
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Suggested Electives for the Computing Major

This table shows the recommended electives for Year 2 and 3 for the computing major. Note that students are required to complete 24 units of credit (and the 2 projects) to receive the major, while this recommended program includes 42 UOC of computing electives. It should be noted that students are not obliged to complete these electives in the order set out in the schedule. Also, the list is not an exhaustive list of the available computing electives, so some students may choose to complete courses not listed here.

Year 2**Session One**

BENV1042	World Wide Web in Presentation and Communication	(6 UOC)
Electives		(12 UOC)

Session Two

BENV2410	Advanced Webpage Design	(6 UOC)
BENV1043	Multimedia in Design Presentation	(6 UOC)
BENV2403	Information Technology in Design and Construction	(3 UOC)

Year 3**Session One**

BENV1341	Design Modelling and Visualisation	(3 UOC)
BENV2405	Computer Graphics Programming	(6 UOC)
BENV2406	Design and Computation	(3 UOC)

Session Two

BENV2409	Advanced Multimedia	(6 UOC)
BENV2404	CAD Management for Architects	(3 UOC)
Electives		(3 UOC)

General Education Requirements

It is UNSW policy that all students must complete up to 56 hours of study that fosters acceptance of professional and ethical action as well as social and environmental responsibility. The BSc(Arch) program satisfies half of that requirement within the courses that are taken in common with the BArch program. Taking the course BENV1382 Social Responsibility and Professional Ethics in the third year of study satisfies the remaining 28 hours.

Honours

The Bachelor of Science (Architecture) degree may be awarded with Honours after the successful completion of a two-semester Honours program following the completion of the BSc(Arch) program, and in accordance with current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Students must qualify by achieving a minimum Credit average during the first three years of study before being admitted to the Honours year.

Academic Rules

- The degree of Bachelor of Science (Architecture) is awarded at Pass level after the successful completion of a minimum of 144 units of credit.
- The degree of Bachelor of Science (Architecture) is awarded at Honours level after the successful completion of a minimum of 192 units of credit including 48 units in an approved Honours program.
- To fulfil these requirements, students must complete:
 - 75 units of core courses, being all those prescribed in the faculty regulations for this program;
 - 18 units of FBE electives, selected in accordance with the faculty regulations for this program;
 - 39 units of open electives, selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment;
 - 12 Units of General Education in accordance with University requirements.
- A student may undertake a major by completing a minimum of 24 units in an approved disciplinary stream (in lieu of an equivalent unit value of open electives) plus undertaking approved topics related to that disciplinary stream for both the core Research Project courses (ARCH1398 and ARCH1399).
- The standard duration of the program is 3 years consisting of 6 semesters of full-time study (24 units of credit per semester). This is extended by 1 year (or 2 semesters), if the Honours program is attempted.
- General Education courses may not be taken before a student enters Year 2 of the Program.

3331 Bachelor of Building Construction Management**BBCM****Typical Duration**

4 years

Minimum UOC for Award

204 units of credit

Typical UOC per Session

24 units of credit

Program Head: To be advised**Program Description**

The Bachelor of Building Construction Management is a four-year full-time program which allows students to specialise for careers in Construction and Project Management, Quantity Surveying, Property Development and Property Management.

The program is offered over a period of 4 years of full-time study, or a minimum of eight sessions, leading to the award of the degree of Bachelor of Building Construction Management (BBCM). The program is structured as follows:

- Years 1-3 consist of a fixed program of compulsory courses.
- Year 4 consists of electives and a compulsory thesis.

Program Objectives and Learning Outcomes

Students will acquire a sound foundation of knowledge which will prepare them for graduate careers in areas such as Construction and Project Management, Quantity Surveying, Property Development and Property Management.

Program Structure**Year 1****Session One**

BENV1141	Computers and Information Technology	(3 UOC)
BLDG1260	Construction Management 1	(6 UOC)
BLDG1281	Construction Law 1A	(3 UOC)
BLDG1121	Construction Science	(6 UOC)
BLDG1211	Construction Technology 1A	(6 UOC)

Session Two

BLDG1282	Construction Law 1B	(3 UOC)
BLDG1050	Structures 1	(6 UOC)
BLDG1212	Construction Technology 1B	(6 UOC)
BLDG1302	Construction Economics	(6 UOC)
GMAT0411	Surveying in Building and Construction	(3 UOC)

Year 2**Session One**

BLDG2052	Structures 2	(6 UOC)
BLDG2101	Construction Technology 2A	(6 UOC)
BLDG2280	Construction Management 2A	(6 UOC)
ACCT9003	Introduction to Accounting Principles	(3 UOC)
General Education		(3 UOC)

Session Two

BLDG2212	Construction Technology 2B	(6 UOC)
BLDG2482	Computer Applications in Construction	(3 UOC)
BLDG2332	Measurement & Documentation	(6 UOC)
BLDG2282	Construction Management 2B	(6 UOC)
General Education		(3 UOC)

Year 3**Session One**

BLDG3301	Advanced Measurement & Documentation	(6 UOC)
BENV1382	Social Responsibility and Professional Ethics	(3 UOC)
BLDG3101	Construction Technology 3A	(6 UOC)
BLDG3281	Construction Management 3A	(6 UOC)
General Education		(3 UOC)

Session Two

BLDG3284	Construction Management 3B	(6 UOC)
BLDG3402	Research Skills	(3 UOC)
BLDG3332	Construction Cost Estimating	(6 UOC)
BLDG3102	Construction Technology 3B	(6 UOC)
General Education		(3 UOC)

Additional Requirement

(to be completed before start of Year 4)

Successful completion of one of the following:

BLDG9998	Quantity Surveying Industry Program	(12 UOC)
BLDG9999	Building Industry Program	(12 UOC)

Year 4**Session One**

BLDG4501	Thesis Foundation	(6 UOC)
Electives		(18 UOC)

Session Two

BLDG4502	Thesis	(12 UOC)
Electives		(12 UOC)

Electives

Students' attention is drawn to the list of suggested electives below. These courses are offered specifically to meet the requirements for membership of professional bodies as defined below under the section 'Professional Recognition'.

Session 1 Electives

BENV2813	Construction Marketing	(3 UOC)
BENV2814	Property Law	(6 UOC)
BENV2815	Construction Management 4A	(6 UOC)
BENV2986	Property Management & Development	(6 UOC)
BLDG4285	Professional Practice & Procedure	(6 UOC)
BENV2718	Construction Technology 4	(3 UOC)
BLDG4305	Design Evaluation	(6 UOC)

Session 2 Electives

BENV2408	Building Information Systems	(6 UOC)
BENV2985	Land Economics & Valuation	(6 UOC)
BLDG4275	Dispute Avoidance & Resolution	(3 UOC)
BENV2816	Construction Organisational Behaviour	(6 UOC)
BLDG4304	Forecasting, Bidding & Cost Control	(6 UOC)
BENV2719	Housing Delivery Systems	(3 UOC)
BLDG4315	Business & Financial Control	(6 UOC)

Honours

The award of Honours is based on performance throughout the whole program, without requiring an additional Honours program. Honours are determined on the basis of a score which is calculated by weighting more heavily the courses taken in the later years of the program.

Academic Rules

- The degree of Bachelor of Building Construction Management is awarded at either Pass or Honours level after the successful completion of a minimum of 204 units of credit.
- To fulfil these requirements, students must complete:
 - 147 units of core courses, being all those prescribed in the faculty regulations for this program;
 - 12 units of work experience prior to entry into Year 4 as prescribed in the faculty regulations for this program;
 - 30 units of open electives, selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment;
 - 12 units of General Education in accordance with University requirements.
- The standard duration of the program is 4 years consisting of 8 semesters of full-time study (24 units of credit per semester) plus the required work experience.
- General Education courses may not be taken before a student enters Year 2 of the program.

Work Experience

Prior to commencing their final year, all students are required to have gained a minimum of 80 days work experience by appropriate employment in the building industry. Notwithstanding the above, for registration with the Australian Institute of Quantity Surveyors or the Board of Quantity Surveyors Malaysia or the Royal Institution of Chartered Surveyors, students must undertake 6 months approved work experience to be completed before the start of the final year of the program.

A proposal for employment must be submitted to the Program Head for approval prior to starting work. Students will be required to produce documented evidence of their work experience. In order to complete this requirement, students must enrol in BLDG9999 Building Industry Program or in BLDG9998 Quantity Surveying Industry Program.

Progression

In the event of failure in one or more courses, students may carry the failed course(s) provided that:

- prerequisite courses have been completed to the satisfaction of the Program Head;
- the total number of courses taken at any time does not exceed 6 including General Education;

- the total contact hours do not exceed 20 per week.

Assumed Knowledge

Before entry to the Bachelor of Building Construction Management program it is recommended that students complete studies in at least HSC Mathematics.

Career Information

This program prepares students for professional and executive employment within one of Australia's largest industries, the construction industry. Careers in a wide variety of areas, in both private enterprise and in the public sector are available to building construction management graduates. More specifically, these include positions as project manager, master builder, construction consultant, building estimator, quantity surveyor, building economist, property manager and building scientist.

Professional Recognition

The award of the degree, Bachelor of Building Construction Management is recognised for admission to membership by:

- The Australian Institute of Building
- The Australian Institute of Quantity Surveyors, subject to completion of all compulsory courses and elective courses nominated by the Australian Institute of Quantity Surveyors plus BLDG9998 Quantity Surveying Industry Program
- The Board of Quantity Surveyors Malaysia, subject to completion of all compulsory courses and elective courses nominated by the Board of Quantity Surveyors Malaysia plus BLDG9998 Quantity Surveying Industry Program
- The Australian Property Institute, subject to the completion of the following electives in addition to all compulsory courses and selection of a thesis topic in the area of Land Economics.
- The Royal Institution of Chartered Surveyors, subject to completion of all compulsory courses and elective courses nominated by RICS plus BLDG9998 - Quantity Surveying Industry Program.

The electives nominated by each of these accrediting bodies are listed on the FBE web site under the Building Construction Management program.

3360 Bachelor of Planning**BPlan****Typical Duration**

5 years

Minimum UOC for Award

240 units of credit

Typical UOC per Session

24 units of credit

Program Head: Susan Thompson

Program Description

The Bachelor of Planning program provides academic education and applied learning leading to professional qualifications in planning. The program is of four years full time duration with an additional mandatory year of work experience, normally taken after completing Session 1 of Year 3.

Planning has as its focus the management and development of urban and rural areas; ranging from small local precincts to metropolitan areas and regions. The planner's task is often to integrate and coordinate the aims and actions of a large number of government and private organisations and individuals to provide an equitable and efficient distribution of resources. Working at the interface of development and the environment, this involves collecting and analysing information; identifying needs and options; making forecasts; preparing policies, plans and programs for implementation; exercising development control; investigating development proposals; and evaluating results, communicating outcomes and consultation.

The Bachelor of Planning is also offered in combination with the Master of Environmental Management (PLANG23360). Please refer to the Bachelor of Planning Master of Environmental Management (BPlan MEM) entry under 'Combined Degree Programs'.

Program Objectives and Learning Outcomes

The objectives of the program are to create an awareness of the context in which planning operates, impart knowledge of how planning can influence the community and the physical environment, equip students with the competence to apply this knowledge at different levels in a wide range of situations, create an understanding of the contribution other disciplines can make to planning and vice versa, and develop skills in policy formulation, land use allocation and control, design and communication.

The program is structured to allow students to study a secondary specialisation in a particular area or to sample a wide range of educational experiences from across the University.

Program Structure

Year 1

Session One

PLAN1241	Planning Theory and Practice	(6 UOC)
PLAN1101	Understanding Design	(6 UOC)
PLAN1011	Urban Society	(6 UOC)
GEOS1701	Environmental Systems and Processes	(6 UOC)

Session Two

PLAN1122	Development Processes	(6 UOC)
PLAN1042	Local Planning	(6 UOC)
GEOH2801	Geographical Information Systems for Built Environment	(6 UOC)
Electives		(6 UOC)

Year 2

Session One

PLAN2111	Economics of Planning and Development	(6 UOC)
PLAN2032	Urban Design	(6 UOC)
PLAN2041	Integrated Planning 1	(6 UOC)
Electives		(6 UOC)

Session Two

PLAN2122	History, Heritage and the Built Environment	(6 UOC)
PLAN2152	Resources, Planning and the Natural Environment	(6 UOC)
PLAN1052	Quantitative Methods	(6 UOC)
General Education		(6 UOC)

Year 3

Session One

PLAN3031	Integrated Plan 2	(6 UOC)
PLAN3041	Planning Law & Administration	(6 UOC)
GEOH3671	Transport, Land Use and Environment	(6 UOC)
PLAN3051	Development Assessment	(6 UOC)

Session Two

PLAN0081	Work Experience	(24 UOC)
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Year 4

Session One

PLAN0082	Work Experience	(24 UOC)
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Session Two

PLAN3032	Integrated Plan 3	(6 UOC)
PLAN3015	Social Planning	(6 UOC)
PLAN3052	Qualitative Methods	(6 UOC)
Electives		(6 UOC)

Year 5

Session One

PLAN4031	Research Design	(3 UOC)
PLAN4121	Spatial Policy	(6 UOC)
Electives		(9 UOC)
General Education		(6 UOC)

Session Two

PLAN4132	Thesis Project	(12 UOC)
PLAN4142	Professionalism, Ethics and Politics	(6 UOC)
Electives		(6 UOC)

Program Minor

Students are strongly encouraged to use the elective courses to develop a specialisation in addition to their core planning studies.

Honours

Honours are awarded in the Bachelor of Planning degree on the basis of quality of performance throughout the whole program and in accordance

with current faculty policy. For the purpose of calculating Honours at graduation, the Honours value of each course is indicated by the units of credit associated with that course. Units of credit generally reflect the workload required of students in courses in which grades are awarded. Honours grades are Class 1, Class 2 Division 1, or Class 2 Division 2.

Academic Rules

1. The degree of Bachelor of Planning is awarded at either Pass or Honours level after the successful completion of a minimum of 240 units of credit.

2. To fulfil these requirements, students must complete:

- 147 units of core courses, being all those prescribed in the Faculty regulations for this program;
- 48 units of work experience normally undertaken in 2nd session of Year 3 and 1st session of Year 4 as prescribed in the Faculty regulations for this program;
- 33 units of open electives selected in accordance with the Faculty regulations for undergraduate study in the Faculty of the Built Environment;
- 12 units of General Education in accordance with University requirements.

3. The standard duration of the program is 5 years, consisting of 8 sessions of full-time study plus 2 sessions of required work experience, with each session worth 24 units of credit.

4. General Education courses may not be taken before a student enters Year 2 of the program.

Work Experience

During the program, students must undertake 48 weeks of approved employment related to the program. The program assists with placements in state government agencies, planning consultants, private firms, and local councils. This is normally undertaken in the twelve months following Session 1 of Year 3 as indicated in the Program Structure. Work experience requirements must be completed prior to graduation. The type of employment proposed must be submitted to the Program Head for approval.

Progression

Courses are to be taken in the year sequence listed above, except with the permission of the Head of the Planning and Urban Development Program.

Professional Recognition

The Bachelor of Planning Degree is recognised by the Planning Institute of Australia as an academic qualification for Corporate Membership after at least one additional year of practical experience following graduation. Corporate Membership of the Planning Institute of Australia confers reciprocal recognition in many countries.

3380 Bachelor of Landscape Architecture

BLArch

Typical Duration

4 years

Minimum UOC for Award

216 units of credit

Typical UOC per Session

24 units of credit

Program Head: Catherine Evans

Program Description

The Bachelor of Landscape Architecture program is of four years duration and requires full-time attendance throughout. Students are introduced to the theory and practice of landscape architecture through an exploration of design principles, graphic techniques, ecological processes and studies of human modification of the environment. As students progress through the program, increasing emphasis is laid upon creative design with particular application to Australian conditions. Projects are related to the subject matter of concurrent lectures and culminate in landscape studies of regional and national significance.

The majority of courses are taught specifically within the Landscape Architecture Program. However, contact with the students and staff of other programs is ensured by the inclusion of courses from other programs in the Faculty of the Built Environment, the University's General Education program and the program of elective courses. In the final two years of

the program students are able to undertake a significant component of elective courses from the Landscape Architecture Program, other programs within the Faculty or from other faculties, which effectively allows them to develop a major specialisation.

Program Objectives and Learning Outcomes

The program seeks the synthesis of knowledge and skills through project based learning in a sequence of eight Design Studios. Support courses are grouped into strands: environment, history and theory, communication, technology and practice.

Program Structure

Year 1

Session One

BENV1141	Computers and Information Technology	(3 UOC)
LAND1101	Design Fundamentals: Studio 1	(9 UOC)
LAND1121	Intro Landscape Architecture	(3 UOC)
GEOS1701	Environmental Syst. & Analysis	(6 UOC)
LAND1151	Horticulture	(3 UOC)

Session Two

LAND1152	Landscape Analysis	(9 UOC)
LAND1171	Landscape Technology 1	(3 UOC)
LAND1102	Land Design 2: Design Process	(6 UOC)
LAND1122	History of Landscape Arch.	(3 UOC)
LAND1142	Design Communication	(3 UOC)

Year 2

Session One

LAND1251	Advanced Horticulture	(3 UOC)
LAND1271	Landscape Technology 2	(3 UOC)
LAND1201	Landscape Design 3: Site Planning	(9 UOC)
LAND1221	Environmental Sociology for Landscape Architects	(3 UOC)

Session Two

LAND1272	Landscape Technology 3	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
LAND1202	Landscape Design 4: Landform and Planting Design	(9 UOC)
LAND1222	History and Theory Elective*	(3 UOC)
	General Education or electives	(6 UOC)

* See course description for LAND1222.

Additional Requirement

(completed before the start of Year 3)

LAND1381	Landscape Practice 1	(12 UOC)
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Year 3

Session One

LAND1583	Professional Practice	(6 UOC)
LAND1351	Landscape Management	(3 UOC)
LAND1371	Landscape Engineering	(3 UOC)
LAND1301	Landscape Design 5	(9 UOC)
	General Education	(3 UOC)

Session Two

LAND1302	Land Design 6	(9 UOC)
LAND1321	Research Methods	(3 UOC)
	Electives	(12 UOC)

Additional Requirement

(completed before the start of Year 4)

LAND1481	Landscape Practice 2	(12 UOC)
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Year 4

Session One

LAND1421	Landscape Thesis	(15 UOC)
or		
LAND1431	Advanced Research Project	(9 UOC)
and		
BENV2106	Landscape Design 9: Integrated Studio	(6 UOC)
	Electives	(9 UOC)

Session Two

LAND1401	Landscape Design 7: Urban Landscape Design	(12 UOC)
LAND1402	Landscape Design 8: Graduating Studio	(12 UOC)

Honours

The Bachelor of Landscape Architecture degree may be awarded with Honours based upon the quality of performance in the program and in

accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Academic Rules

1. The degree of Bachelor of Landscape Architecture is awarded at either Pass or Honours level after the successful completion of a minimum of 216 units of credit.

2. To fulfill these requirements, students must complete:

- 156 units of core courses, being all those prescribed in the faculty regulations for this program;
- 24 units of work experience prior to Year 4 as prescribed in the faculty regulations for this program;
- 24 units of open electives, selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment;
- 12 units of General Education in accordance with University requirements.

3. The standard duration of the program is 4 years consisting of 8 semesters of full-time study (24 units of credit per semester) plus the required work experience.

4. General Education courses may not be taken before a student enters Year 2 of the Program.

5. Students who achieve a final mark above 65 in the prerequisite course, LAND1321 Research Methods, will be directed to the Landscape Thesis, and those who pass LAND1321 but whose final mark is 65 or less will be directed to the Advanced Research Project in Landscape Architecture. Students doing the Research Project will also be required to enrol in the co-requisite, Landscape Design 9: Integrated Studio.

6. A Progress Portfolio will be submitted at the end of second year as part of the assessment for LAND1202 and to determine progression into the third year of design. Similarly, another Progress Portfolio will be submitted at the end of third year which will determine progression into the final year of design.

7. Design Studios are considered to be a linear sequence, which requires that each design studio must be passed before a student can advance to the next level.

Work Experience

Students of the undergraduate program must obtain a total of 90 days work experience prior to graduation, of which a minimum of 40 days must be in landscape industry work and a minimum of 40 days in a landscape design office. This normally takes the form of employment during long student vacations supervised by a landscape architect, landscape contractor or nursery. Each student undertaking work experience must obtain prior approval of the Work Experience Coordinator.

Each student must obtain from the employer a statement of experience gained, maintain an accurate record in logbook form and submit a written report describing the work undertaken during the various work experience components. Details of these arrangements are available on the Faculty website.

Professional Recognition

The program is accredited by the Australian Institute of Landscape Architects and graduates holding the BLArch degree may qualify for corporate membership of the Institute.

3385 Bachelor of Industrial Design

BlndDes

Typical Duration

4 years

Minimum UOC for Award

204 units of credit

Typical UOC per Session

24 units of credit

Program Head: To be advised

Program Description

Industrial design involves the research and design of the whole range of consumer and capital products used by people. These are as diverse as telephones and transportation, kitchen appliances and exhibition systems. Ideally, the industrial designer works as part of a team involving engineering, production and marketing. The industrial designer initially concentrates on establishing the concept as a marketable, producible,

useable and socially responsible product; and subsequently details the human factors (ergonomics), appearance (style) and mode of operation. Frequently the designer becomes involved in the corporate image of companies and their products as well as the graphics of the product's packaging and the associated retail support systems.

The Bachelor of Industrial Design Program provides academic education and practical experience leading to professional qualifications in industrial design. It requires full time attendance for four years culminating in the Major Project.

Program Objectives and Learning Outcomes

There are two central goals. The primary goal is to equip students with the theoretical and practical knowledge, skills and techniques needed for the design, documentation and administration of design and product development. A more general goal is to provide students with an all-round general problem-solving education. Lectures and practical sessions cover theoretical knowledge in the following areas:

1. Industrial Design Studio
2. Visual Communication of Design (Computer aided and manual methods)
3. Marketing
4. Technology (Engineering materials and manufacture)
5. History and Theory

Program Structure

Year 1

Session One

IDES1101	Industrial Design Fundamentals	(6 UOC)
IDES1012	Safe Workshop Practices	(3 UOC)
BENV1141	Computers and Information Technology	(3 UOC)
MATH1011	General Mathematics 1B	(6 UOC)
IDES1161	Industrial Design Communication A	(6 UOC)

Session Two

MATH2839	Statistics SM	(3 UOC)
IDES1031	Design Studio 1	(6 UOC)
IDES1121	History of Industrial Design	(3 UOC)
IDES1071	Materials and Technology Workshop A	(6 UOC)
IDES1162	Industrial Design Communication B	(6 UOC)

Year 2

Session One

IDES2072	Materials and Technology Workshop B	(6 UOC)
IDES2163	Industrial Design Communication C	(6 UOC)
IDES2201	Ergonomics	(6 UOC)
IDES2161	Industrial Design Studio 2A	(6 UOC)

Session Two

IDES2162	Industrial Design Studio 2B	(6 UOC)
IDES2171	Computer Applications in Industrial Design	(6 UOC)
IDES2092	Industrial Design Theory and Process	(6 UOC)
MARK1012	Marketing Fundamentals	(6 UOC)

Year 3

Session One

IDES3073	Materials and Technology Workshop C	(6 UOC)
MARK2051	Consumer Behaviour	(6 UOC)
MARK2052	Marketing Research	(6 UOC)
IDES3221	Industrial Design Studio 3A	(6 UOC)

Session Two

IDES3222	Industrial Design Studio 3B	(6 UOC)
Electives		(12 UOC)
General Education		(6 UOC)

Year 4

Session One

IDES4291	Industrial Design Studio 4	(6 UOC)
IDES4301	Project Research	(6 UOC)
IDES4372	Industrial Design Management and Practice	(6 UOC)
Electives		(6 UOC)

Session Two

IDES4352	Industrial Design Project	(12 UOC)
Electives		(6 UOC)
General Education		(6 UOC)

Honours

The Bachelor of Industrial Design degree may be awarded with Honours based upon the quality of performance in the program, and in accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Academic Rules

1. The degree of Bachelor of Industrial Design is awarded at either Pass or Honours level after the successful completion of a minimum of 192 units of credit.
2. To fulfil these requirements, students must complete:
 - 156 units of core courses, being all those prescribed in the faculty regulations for this program.
 - 24 units of open electives, selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment.
 - 12 units of General Education in accordance with University requirements.
3. The standard duration of the program is 4 years consisting of 8 semesters of full-time study (24 units of credit per semester).
4. General Education courses may not be taken before a student enters Year 2 of the program.

Career Information

The program prepares students for professional and executive employment in areas involving the research, design and development of new manufactured products. Whilst it is anticipated that most graduates will be initially employed in an industrial design capacity either in manufacturing companies or consultancies, it is likely that some graduates may subsequently choose to specialise in aspects of marketing, engineering, product management or design management.

Professional Recognition

The Degree of Bachelor of Industrial Design from the University of New South Wales is recognised by the Design Institute of Australia.

Combined Degree Programs

3262 Bachelor of Architecture Bachelor of Arts

BArch BA

Typical Duration

6 years

Minimum UOC for Award

288 units of credit

Typical UOC per Session

24 units of credit

Program Head: To be advised

Program Description

The BArch BA program is administered by the Architecture Program in the Faculty of the Built Environment. The program requires students to obtain the approval of the Faculty of Arts and Social Sciences for the BA components of their program. The final program and timetable must be approved by the Architecture Program Head in the Faculty of the Built Environment.

The program is open to all students who satisfy both the Architecture and Arts entry conditions. Students may enter directly in Year 1 or may apply to transfer from the Architecture program after the completion of at least one year if they have a credit or higher average or the permission of the Architecture Program Head. Transfer after the second year may result in the student taking more than minimum time to complete the combined degree.

Students should start discussing their program with representatives of the Architecture Program and the Faculty of Arts and Social Sciences as early as possible. Students should themselves determine the Arts program that they wish to undertake. The Arts and Social Sciences section in this Handbook describes the options. There are rules that prescribe what may be taken in each year and students should be aware of the Architecture requirements prior to choosing Arts preferences.

Students will also need to refer to the Faculty of Arts and Social Sciences section in this Handbook for complete program and course details.

Program Objectives and Learning Outcomes

This combined degree allows students to add their choice of an Arts program to the standard, professionally accredited Architecture program offered by the Faculty of the Built Environment. It provides flexibility in the choice of courses with the full Arts program and enables students to gain a broad education in Arts as well as the specialised studies of Architecture. Since both the Architecture and Arts programs can have common subject areas, and the Architecture program contains a percentage of open electives, the combined program requires only one additional session of study on top of the standard BArch program to gain the additional qualification of Bachelor of Arts. In general, the BA courses are taken concurrently with the BArch program so that both can be completed in eleven sessions.

The award of this combined degree demands an amalgamation of the conditions governing both the BArch degree and the BA degree with changes to the requirements for participation in General Education programs and total units of credit.

Program Structure

Year 1

Session One

ARCH1171	Architectural Technologies 1	(9 UOC)
BENV1141	Computers and Information Technology	(3 UOC)
ARCH1121	Architectural History and Theory 1	(4 UOC)
BENV1101	Design Fundamentals: Studio 1	(8 UOC)

Session Two

ARCH1172	Architectural Technologies 2	(8 UOC)
ARCH1102	Architectural Design Workshop 1	(8 UOC)
ARCH1122	Architectural History and Theory 2	(4 UOC)
ARCH1142	Communications 1	(4 UOC)

Year 2

Session One

ARCH1271	Architectural Technologies 3	(6 UOC)
ARCH1201	Architectural Design Workshop 2	(8 UOC)
ARCH1221	Architectural History and Theory 3	(4 UOC)
ARCH1241	Communications 2	(3 UOC)
FBE Elective		(3 UOC)

Session Two

ARCH1272	Architectural Technologies 4	(4 UOC)
ARCH1202	Architectural Design Workshop 3	(8 UOC)
ARCH1282	Research Practice	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
ARCH1222	Architectural History and Theory 4	(3 UOC)
FBE Elective		(3 UOC)

Year 3

Session One

ARCH1371	Architectural Technologies 5	(4 UOC)
ARCH1301	Architectural Design Studio 1	(8 UOC)
BENV1341	Design Modelling and Visualisation	(3 UOC)
ARCH1321	Architectural History and Theory 5	(3 UOC)
BA Courses		(6 UOC)

Session Two

ARCH1302	Architectural Design Studio 2	(9 UOC)
ARCH1382	Practicum	(3 UOC)
BA Courses		(12 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Year 4

Session One

ARCH1401	Architectural Design Studio 3	(9 UOC)
BA Courses		(12 UOC)
FBE Elective		(3 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head

Session Two

ARCH1470	Building Services 1 & 2	(6 UOC)
ARCH1381	Professional Practice 1	(3 UOC)
ARCH1402	Architectural Design Studio 4	(9 UOC)
BA Courses		(6 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head

Additional Requirement

(After Year 1 and before Year 5)

ARCH1583	Work Experience	(24 UOC)
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Year 5

Session One

ARCH1501	Investigation Workshop	(9 UOC)
ARCH1582	Professional Practice 2	(6 UOC)
BA Courses		(6 UOC)
FBE Elective		(3 UOC)

Session Two

ARCH1502	Graduation Project	(9 UOC)
BA Courses		(12 UOC)
FBE Elective		(3 UOC)

Year 6

Session One

BA Courses	(24 UOC)
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Honours

Students may be awarded a BA (Honours) degree through successfully completing an Honours year.

It should be noted that entry into a particular BA (Honours) program may require completion of courses additional to those specified in the Degree Rules and Faculty Regulations. The Honours year would be outside the suggested time for the combined degree.

The Bachelor of Architecture degree may be awarded with Honours based on the quality of performance in the program and in accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

In order to be considered for the University Medal, students must have completed at least 3 years of study towards their BArch degree at UNSW. Where appropriate, BArch (Honours) is conferred at graduation for the combined degree unless students carry out the additional BA Honours program.

Academic Rules

1. The degrees of Bachelor of Architecture and Bachelor of Arts are awarded at either Pass or Honours level (BArch only) after successful completion of a minimum of 210 units of credit from the Architecture Program and 78 units of credit from the Arts Program. The combined total units of credit is 288. To gain Honours in Arts, students are required to carry out an extra year of study (48 units of credit) with a Major in an approved area.

2. To fulfil these requirements, students must complete:

- 171 units of core courses in Architecture, being all those prescribed in the in the faculty regulations for this program.
- 24 units of work experience completed after Year 1 and before Year 5 as prescribed in the faculty regulations for this program.
- 15 units of FBE electives in the Faculty of the Built Environment, selected in accordance with the faculty regulations for this program.
- 78 units of credit from the range of Arts majors in accordance with the Faculty of Arts and Social Science Rules. Students in the combined degree should undertake no more than 24 units of credit in Level 1 courses.

3. The standard duration of the program is 6 years consisting of 11 semesters of full-time study (24 units of credit per semester) plus 1 semester of required work experience.

4. Arts courses may not be taken until after the student has completed 96 units of credit points from the BArch program.

5. To fulfil the requirements of the BA component of the program, students must undertake a major by completing 42 units of credit in one of the approved disciplinary streams identified in the faculty regulations for this program.

Faculty Regulations for the BArch BA

Core Courses in Architecture

The core courses prescribed for the program are all those named in Program Structure above.

FBE Electives

Faculty of the Built Environment (FBE) electives must be selected from those offered by the FBE.

Arts Major

For the Arts Majors and course selection restriction, please see the Faculty of Arts and Social Sciences.

Course Selection Restrictions

No course included for credit in the BArch program can be included in the 78 units of credit required in Rule 1 for the BA program.

Work Experience/Composite Courses/Progression rules

Please see the BArch (program code 3260) for work experience regulations.

Professional Recognition

Please refer to the BArch (program code 3260) professional recognition section for complete details.

3263 Bachelor of Architecture Bachelor of Social Science

BArch BSocSc**Typical Duration**

6 years

Minimum UOC for Award

288 units of credit

Typical UOC per Session

24 units of credit

Program Head: To be advised

Program Description

The BArch BSocSc program is administered by the Architecture Program of the Faculty of the Built Environment. The program requires the student to obtain approval of the Faculty of Arts and Social Sciences for the BSocSc components of their program. The final program and timetable must be approved by the Architecture Program Head in the Faculty of the Built Environment.

Students should start discussing their program with representatives of the Architecture Program and the Faculty of Arts and Social Sciences as early as possible. Students should themselves determine the Social Science Major that they wish to undertake. The Faculty of Arts and Social Science section in this Handbook describes the options available and students will need to refer to this section for complete program and course details. There are rules that prescribe what may be taken in each year and students should be aware of the Architecture requirements prior to choosing Social Science preferences.

Program Objectives and Learning Outcomes

This combined degree allows students to add their choice of a Social Science program to the standard, professionally accredited Architecture program offered by the Faculty of the Built Environment. It provides flexibility in the choice of courses with the full Social Science program and enables students to gain a broad education in Social Science as well as the specialised studies of Architecture. Because Architecture and Social Science programs can have common subject areas, and the Architecture program contains a percentage of open electives, the program requires only one additional session of study to gain the additional qualification of Bachelor of Social Science. In general, the BSocSc courses are taken concurrently with the BArch program so that both can be completed in eleven sessions.

The award of this combined degree demands an amalgamation of the conditions governing both the BArch degree and the BSocSc degree with changes to the requirements for participation in General Education programs and total units of credit.

Program Structure**Year 1****Session One**

ARCH1171	Architectural Technologies 1	(9 UOC)
BENV1141	Computers and Information Technology	(3 UOC)
ARCH1121	Architectural History and Theory 1	(4 UOC)
BENV1101	Design Fundamentals: Studio 1	(8 UOC)

Session Two

ARCH1172	Architectural Technologies 2	(8 UOC)
ARCH1102	Architectural Design Workshop 1	(8 UOC)
ARCH1122	Architectural History and Theory 2	(4 UOC)
ARCH1142	Communications 1	(4 UOC)

Year 2**Session One**

ARCH1271	Architectural Technologies 3	(6 UOC)
ARCH1201	Architectural Design Workshop 2	(8 UOC)
ARCH1221	Architectural History and Theory 3	(4 UOC)
ARCH1241	Communications 2	(3 UOC)
FBE elective		(3 UOC)

Session Two

ARCH1272	Architectural Technologies 4	(4 UOC)
ARCH1202	Architectural Design Workshop 3	(8 UOC)
ARCH1282	Research Practice	(3 UOC)
BENV1242	Computer-Aided Design	(3 UOC)
ARCH1222	Architectural History and Theory 4	(3 UOC)
FBE elective		(3 UOC)

Year 3**Session One**

ARCH1371	Architectural Technologies 5	(4 UOC)
ARCH1301	Architectural Design Studio 1	(8 UOC)
BENV1341	Design Modelling and Visualisation	(3 UOC)
ARCH1321	Architectural History and Theory 5	(3 UOC)
BSocSc courses		(6 UOC)

Session Two

ARCH1302	Architectural Design Studio 2	(9 UOC)
ARCH1382	Practicum	(3 UOC)
BSocSc courses		(12 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Year 4**Session One**

ARCH1401	Architectural Design Studio 3	(9 UOC)
BSocSc Courses		(12 UOC)
FBE Elective		(3 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head.

Session Two

ARCH1470	Building Services 1 & 2	(6 UOC)
ARCH1381	Professional Practice 1	(3 UOC)
ARCH1402	Architectural Design Studio 4	(9 UOC)
BSocSc Courses		(6 UOC)

Opportunity for alternate off-campus Exchange Program with the approval of the Program Head

Additional Requirement

(After Year 1 and before Year 5)

ARCH1583	Work Experience	(24 UOC)
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Year 5**Session One**

ARCH1501	Investigation Workshop	(9 UOC)
ARCH1582	Professional Practice 2	(6 UOC)
BSocSc Courses		(6 UOC)
FBE Elective		(3 UOC)

Session Two

ARCH1502	Graduation Project	(9 UOC)
BSocSc Courses		(12 UOC)
FBE Elective		(3 UOC)

Year 6**Session One**

BSocSc Courses		(24 UOC)
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Honours

Students may be awarded Honours in the BSocSc degree by successful completion of an Honours year. It should be noted that entry into a particular BSocSc Honours program may require completion of courses additional to those specified in the Degree Rules and Faculty Regulations. The Honours year would be outside the suggested time for the combined degree.

The Bachelor of Architecture degree may be awarded with Honours based on the quality of performance in the program and in accordance with current program policy. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2. In order to be considered for the University Medal, students must have completed at least 3 years of study towards their BArch degree at the University of New South Wales.

Where appropriate, BArch Honours is conferred at graduation for the combined degree unless students carry out the additional BSocSc Honours program.

Academic Rules

- The degrees of Bachelor of Architecture and Bachelor of Social Science are awarded at either Pass or Honours level (BArch only) after successful completion of a minimum of 210 units of credit from the Architecture Program and 78 units of credit from the Social Science Program. The combined total units of credit is 288. To gain Honours in Social Science students are required to carry out an extra year of study (48 units of credit) with a Major in an approved area.
- To fulfil these requirements, students must complete:
 - 171 units of core courses in Architecture, being all those prescribed in the faculty regulations for this program.
 - 24 units of work experience completed after Year 1 and before Year 5 as prescribed in the faculty regulations for this program.
 - 15 units of FBE electives in the Faculty of the Built Environment, selected in accordance with faculty regulations for this program.
 - 78 units of credit from the Social Science Policy core and a major in accordance with Faculty of the Arts and Social Sciences Rules. Students in the combined degree should undertake no more than 24 units of credit in Level 1 courses.
- The standard duration of the program is 6 years consisting of 11 semesters of full-time study (24 units of credit per semester) plus 1 semester of required work experience.
- Social Science courses may not be taken until after the student has completed 96 units of credit points from the BArch program.
- To fulfil the requirements of the BSocSc component of the program, students must complete a Social Science and Policy core and a major (30 units of credit) in one of the approved disciplinary streams identified in the faculty regulations for this program.

Faculty Regulations for the BArch BA

Core Courses in Architecture

The core courses prescribed for the program are all those named in the above program structure.

FBE Electives

Faculty of the Built Environment (FBE) electives must be selected from those offered by the FBE.

Social Science Major

For Social Science majors please see the Faculty of Arts and Social Sciences section in this Handbook.

Course Selection Restrictions

No course included for credit in the BArch program can be included in the 78 units of credit required in Rule 1 for the BSocSc program.

Work Experience

Please see BArch (program code 3260) for work experience regulations.

Professional Recognition

Please refer to the BArch (program code 3260) professional recognition section for complete details.

4705 Bachelor of Architecture Bachelor of Laws

BArch LLB

This program provides an opportunity to obtain two professional degrees. It allows students to add the professionally recognised Law program to the professionally accredited Architecture program offered by the Faculty of the Built Environment. The Law courses, while fewer in number than the Jurisprudence/Law program, satisfy the requirements for the award of the professional LLB degree. Because the Architecture program contains a percentage of open electives which can be replaced by Law courses, the combined program requires only three additional sessions of study to gain both qualifications. In general, this study is taken concurrently with the BArch program and both can be completed in thirteen sessions, although students are considered to have a significant workload throughout these thirteen sessions.

For full details of this program, please refer to the Faculty of Law section of this Handbook.

4707 Bachelor of Planning Bachelor of Arts

BPlan LLB

This program provides an opportunity to obtain two professional degrees. It allows students to add the professionally recognised Law program to the professionally accredited Planning program offered by the Faculty of the Built Environment. The Law courses satisfy the requirements for the award of the professional LLB degree. Because the Planning program contains a percentage of open electives that can be replaced by Law courses, the combined program requires only four additional sessions of study to gain both qualifications. In general, this study is taken concurrently with the BPlan program and both can be completed in a minimum of seven years, consisting of twelve academic sessions (six years), plus two sessions of compulsory work experience. This compares with the five year BPlan program, which consists of eight academic sessions and two sessions (12 months) of compulsory work experience.

For full details of this program, please refer to the Faculty of Law section of this Handbook.

3360 Bachelor of Planning Master of Environmental Management

BPlan MEM – Plan PLANG23360

Program Head: Susan Thompson

This program provides an opportunity to obtain two professional degrees. It allows students to add the Masters in Environmental Management program offered by the Institute of Environmental Studies to the professionally accredited Bachelor of Planning program offered by the Faculty of the Built Environment. Because the Planning program contains a percentage of open electives which can be replaced by MEM courses, the linked program requires only two additional sessions of study to gain both qualifications. Both degrees can be completed in a minimum of twelve sessions. As an alternative, the final 48 units of credit in the MEM program may also be taken part-time or by distance learning.

Students may transfer to this program following three years of study in the Bachelor of Planning program having achieved a weighted average of 65 or higher in all graded courses undertaken.

Students in the BPlan MEM program will not be eligible for the award of the Graduate Certificate in Environmental Management nor the Graduate Diploma in Environmental Management.

The BPlan MEM program is administered by both the Faculty of the Built Environment (Years 1–5) and the Institute of Environmental Studies (Year 6). The final program and timetable for Years 1–5 must be approved by the Head of the Planning and Urban Development Program in the Faculty of the Built Environment and for Year 6 by the Director of the Institute for Environmental Studies.

Registration/Professional Recognition

Please refer to the BPlan professional recognition section for complete details.

Plan Structure – PLANG23360

Year 1

Session One

PLAN1241	Planning Theory and Practice	(6 UOC)
PLAN1101	Understanding Design	(6 UOC)
PLAN1011	Urban Society	(6 UOC)
GEOS1701	Environmental Systems and Process	(6 UOC)
Total		24 UOC

Session Two

PLAN1042	Local Planning	(6 UOC)
PLAN1122	Development Processes	(6 UOC)
PLAN1052	Quantitative Methods	(6 UOC)
GEOH2801	Geographical Information Systems for Built Environment	(6 UOC)
Total		24 UOC

Year 2

Session One

PLAN2041	Integrated Planning 1 – Communication in Planning	(6 UOC)
PLAN2032	Urban Design	(6 UOC)
PLAN2111	Economics of Planning and Development Electives	(6 UOC)
	General Education	(3 UOC)
Total		24 UOC

Session Two		
PLAN2152	Resources, Planning and the Natural Environment	(6 UOC)
PLAN2122	History, Heritage and the Built Environment Electives	(6 UOC)
	General Education	(6 UOC)
	Total	24 UOC

Year 3

Session One		
PLAN3031	Integrated Planning 2 – Strategic Planning	(6 UOC)
PLAN3041	Planning Law and Administration	(6 UOC)
PLAN3051	Development Assessment	(6 UOC)
GEOH3671	Transport, Land Use and Environment	(6 UOC)
	Total	24 UOC

Session Two

PLAN0081	Work Experience	24 UOC
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Year 4**Session One**

PLAN0082	Work Experience	24 UOC
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Session Two

PLAN3032	Integrated Planning 3 – Master Planning	(6 UOC)
PLAN3015	Social Planning	(6 UOC)
PLAN3052	Qualitative Methods	(6 UOC)
UEST5001	Frameworks for Environmental Management	(6 UOC)
	Total	24 UOC

Year 5**Session One**

PLAN4121	Spatial Policy	(6 UOC)
PLAN4031	Research Design	(3 UOC)
CVEN9895	Fundamental Knowledge in Environmental Management: Engineering	(6 UOC)
BIOS9001	Fundamental Knowledge in Environmental Management: Ecology*	(6 UOC)
	General Education	(3 UOC)
	Total	24 UOC

Session Two

PLAN4132	Thesis Project	(12 UOC)
PLAN4142	Professionalism, Ethics and Politics	(6 UOC)
CHEM7300	Fundamental Knowledge in Environmental Management: Physical Science	(6 UOC)
	Total	24 UOC

Year 6**Session One**

UEST5002	Tools for Environmental Management	(6 UOC)
ECON5125	Fundamental Knowledge in Environmental Management: Economics	(6 UOC)
	MEM Electives**	(12 UOC)
	Total	24 UOC

Session Two

UEST5003	Addressing Environmental Issues	(6 UOC)
	MEM Electives**	(18 UOC)
	Total	24 UOC

*BIOS9001 *Fundamental Knowledge in Environmental Management: Ecology* is undertaken as a Summer Session course between Years 4 and 5.

**Students cannot undertake MEM elective courses which have course identifier prefixes of BENV or UDES offered by the Faculty of the Built Environment.

Note that Sessions 1 and 2 of Year 6 may also be undertaken part-time or by distance learning.

Plan Award Rules

1. The degree of Bachelor of Planning will be awarded at either Pass or Honours level after the successful completion of a minimum of 240 units of credit including 24 units of credit from the MEM program. The degree of Master of Environmental Management will be awarded at Pass level after the successful completion of 72 units of credit from the MEM

program, 24 of which are carried out during the final two years of the BPlan program.

2. To fulfill these requirements, students must complete:

- 147 units of core courses in Planning, being all those prescribed in the faculty regulations for this program.
- 48 units of work experience as prescribed in the faculty regulations for this program.
- 9 units of open electives selected in accordance with the faculty regulations for undergraduate study in the Faculty of the Built Environment.
- 42 units of core courses in Environmental Management, being all those prescribed in the regulations for the MEM program.
- 12 units of General Education in accordance with University requirements.
- 30 units of program electives in Environmental Management selected in accordance with the regulations for the MEM program.

3. The standard duration of the program is 5 years consisting of 10 semesters of full-time study (24 units of credit per semester) plus 1 year of required work experience.

4. The student must complete 144 units of credit in the Bachelor of Planning program before attempting any courses from the MEM Program.

Faculty Regulations for the BPlan MEM**Core Courses in Planning**

The core courses prescribed for the BPlan program are all those named in Plan Schedule up to and including the end of Year 5 and excluding the four courses named in MEM Core Courses.

Transfer Arrangements

Students may transfer to this program following the successful completion of at least 144 units of credit in the Bachelor of Planning program provided they have achieved a weighted average mark across all graded courses of 65 or higher.

Students in the BPlan MEM program may transfer back to the BPlan program. They will receive credit toward their BPlan degree of up to 24 units of credit for MEM courses completed while undertaking the program. Students in the BPlan MEM program who do not complete the BPlan degree including 24 units of credit of MEM courses cannot transfer directly to the MEM program, but may subsequently apply for admission to the MEM upon completion of the BPlan and may request credit for MEM courses completed while they were undertaking the joint program.

Course Selection Restrictions

During the final three sessions of the BPlan program students must complete the four MEM courses listed in MEM Core Courses table.

MEM Core Courses

UEST5001	Frameworks for Environmental Management
CVEN9895	Fundamental Knowledge in Environmental Management Engineering
BIOS9001	Fundamental Knowledge in Environmental Management: Ecology
CHEM7300	Fundamental Knowledge in Environmental Management: Physical Science

Honours

The Bachelor of Planning degree may be awarded with Honours based on the quality of performance in the program of study undertaken to fulfill the requirements of that degree, and in accordance with current faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Work Experience

During the degree, students must undertake 48 weeks of approved planning-related employment. The Planning and Urban Development Program assists with placements in state government agencies, planning consultants, private firms, and local councils. This is normally undertaken in the twelve months following Session 1 of Year 3 as indicated in the Program Schedule. Work experience requirements must be completed prior to graduation. The type of employment proposed must be submitted to the Head of the Planning and Urban Development Program for approval.