Faculty of Architecture

Volume 3
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Dean's Foreword

The professions responsible for the construction of the built environment are among the most important in both economic and social terms to the well-being of society. They also offer some of the most wide-ranging and rewarding careers available to university graduates, with opportunities to pursue a great variety of activities, from the design of buildings and the technical resolution of their components, to the management of the processes and people involved in their construction. The architecture and building degree courses offered at Newcastle reflect the richness of these career opportunities by providing an educational environment in which the student can develop those areas of skill, knowledge, and understanding required of the aspiring professional.

For the student of architecture, these areas include graphic skills as well as scientific knowledge, the study of history as well as of the latest developments in computer aided design, as part of a unique range of practical and intellectual activities at the heart of which lies that creative generation of built form in response to human need which constitutes architectural design. Although there will be many forms of practice open to a student at the completion of the university course, it is this capacity for conceiving imaginative design solutions to real problems which underlies the most effective contributions which an architect can make.

Similarly, the skills and techniques related to the management of the construction process form the core of the range of disciplines which the student of building is concerned with, and which provide the basis of professional competence and leadership in an increasingly complex industry.

We believe that the best way in which the Faculty can help students to develop these capacities is by dealing with relevant problems in a way which integrates the various areas of skill and knowledge required. It is this integrated problem-based approach which gives the Newcastle Faculty of Architecture its distinctive character, and which is guiding the development of its courses. We believe it encourages an exciting educational context in which students can achieve the highest levels of preparedness for their future professional careers.

Barry S. Maitland
Dean

Faculty Staff

PRINCIPAL OFFICERS
Visitor His Excellency, The Governor of New South Wales
Chancellor The Honourable Justice E.A. Evatt, AO, LLB, HonLLD(Syd), LLM(Harv), HonLLD(Macq), HonDUniv
Deputy Chancellor P.I.A. Hendry, AO, MB IDS(Syd), DCP(Lond), HonMD, FRCPA, FCAP, FAACB
Vice-Chancellor Professor R.J. Mortley, BA(Syd), MA(Monash), Dr3'cycle, Deal(Strass), FAHA(Philos)
Deputy Vice-Chancellor Professor M.P. Carter, BA(Nott), PhD(Edin)
Pro Vice-Chancellor and Dean of Students Professor K.R. Dutton, MA(Syd), DPhil(Paris), FACE, Officer des Palmes académiques
Pro Vice-Chancellor (Development) L.R. Eastcott, BA(NSW), MED(Syd), PhD(Alta), DipEd
Pro Vice-Chancellor (Research) Professor R.J. MacDonald, BSc, PhD(NSW), FAIP
Deputy President of the Academic Senate Professor F.L. Clarke, BEc, PhD(Syd), FCPA, ACIS, ACIM

FACULTY OF ARCHITECTURE STAFF
Dean Professor B.S. Maitland, DipArch, MA(Camb), PhD(Shell), ARRAIA
Assistant Dean A.J. Kingsland, BArch(Melb), DipCompSc
Faculty Secretary J. Gow, DipTeach(NCACE), BEd(News)MRAAD, MA/TEA

Department of Architecture
Professors R.S. Maitland, DipArch, MA(Camb), PhD(Shell), ARRAIA
W.D. McGeorge, MSc(H-W), FRICS, FAIQS, FAIB
section two

Faculty Information

Location
The Faculty of Architecture functions in a self-contained building on the University campus where it is located across the western footbridge beyond the Library and Union over the ring road and adjacent to Building M. The nearest general car park is north of Building M. See the frontispiece plan for further details.

The postal address is:
Faculty of Architecture
The University of Newcastle
University Drive,
CALLAGHAN NSW 2308
The University telephone number is 21.5000.

University of Newcastle Architectural Students' Association
Membership is open to both students and staff of the Faculty of Architecture as well as members of the architectural profession. Students of other faculties may be admitted as associate members. The Association aims at bringing together students at all levels within the Faculty and holds functions, both social and academic, including lectures by prominent members of the profession.

Announcements of the Architectural Students' Association's activities are posted on the Notice Board in the Architecture building.

Professional Recognition
Architecture
The Bachelor of Science (Architecture) and Bachelor of Architecture programs at this University have been approved by the professional and state bodies which accredit architecture courses in Australia. These organisations include the Royal Australian Institute of Architects, the New South Wales Board of Architects, and the Commonwealth Association of Architects.
The course of study in architecture leading to graduation and accreditation as an architect consists of two degree programs. The first degree BSc(Arch) consists of 3 years full-time study. The second degree BArch consists of 2 years full-time study. Students may proceed directly from one degree to the next or may choose to take leave of absence to work or travel.

**Building**

The course fulfills the requirements for admission to membership of the Australian Institute of Building (AIB) and is expected to fulfill the academic component required by the Australian Institute of Quantity Surveyors (AIQS). Additionally, graduates seeking accreditation with the AIQS will be required to complete a minimum period of practical experience as determined by the AIQS.

**Professional Association**

Students enrolled in the Faculty of Architecture are advised to apply for student membership of the appropriate professional body (Royal Australian Institute of Architects; Australian Institute of Building; Australian Institute of Quantity Surveyors). These institutes issue a wide range of publications and hold numerous functions both social and educational at specially reduced rates for students, all of which should be of interest and value to students in the Faculty.

**Prerequisites for Entry to the Bachelor of Science (Architecture) Degree**

There are no mandatory prerequisite HSC subjects required of students entering the course. Students are advised however that the study of architecture will call upon skills of literacy, numeracy and design. The HSC subjects English, Mathematics, Physics, Art and Industrial Arts would provide a basis for the development of these skills.

**Prerequisites for Entry to the Bachelor of Building Degree**

There are no mandatory prerequisite HSC subjects which prospective students must complete before entry into the Bachelor of Building course. Passes in 2 unit Mathematics and 2 unit Physics are recommended and an adequate pass in English is considered desirable.

**Practical Experience Requirements for Bachelor of Building Degree**

As the Bachelor of Building degree is highly vocationally oriented, experience in the industry during the course is of great value. Accordingly, it is a requirement that a minimum of sixteen weeks of approved practical experience be completed before a student undertakes the final year of the course. The sixteen weeks can be accumulated at any time prior to the final year of the course.

A suitable range of experience must be gained in the industry to enable students to fully appreciate the practical implications of much of the theoretical aspects of the program. Where possible, this experience should cover on-site and office work and may vary from observation at the beginning to direct participation as time progresses. The student should gain as wide a variety of experience as possible while still remaining at each task until some competence is gained. A list of organisations who may assist in providing students with suitable experience may be obtained from the Faculty. However, it is the responsibility of the student to find and arrange suitable experience. Students are required to keep a Log Book in order to record their industrial work. The Log Books may periodically be required for checking by the Faculty.

**Student Representation in Faculty Affairs**

Provision is made for student representatives to be elected to the Faculty Board of the Faculty. The Faculty Board has responsibility for the teaching and research activities of the Faculty.

**Awards and Prizes**

- **Board of Architects of New South Wales Prize**
  The Board of Architects of NSW Prize is awarded for the best academic performance in the Bachelor of Architecture degree course, if of sufficient merit. Value: $350.

- **RAIA Annual NSW Chapter Prize**
  The NSW Chapter of the Royal Australian Institute of Architects offers a prize each year to the student whose performance in the Bachelor of Architecture degree course has been outstanding. Value: $250.

- **Buters Architects Snell Design Prize**
  This prize is awarded annually to the most outstanding creative student in the field of architectural design completing the Bachelor of Science (Architecture) degree, if of sufficient merit. Value: $2,500.

**Sydney C Morton Prize**

This prize is awarded annually to the graduating student who achieves the highest aggregate of marks in the technology study areas of the Bachelor of Science (Architecture) and Bachelor of Architecture degree courses, provided the work is of sufficient merit. Value: $600.

**Neville Clouten Architectural Synthesis Prize**

This prize is awarded annually to the student being enrolled in one of the design study areas of the Bachelor of Science (Architecture) or Bachelor of Architecture degree courses, who best demonstrates the design process by a project completed during the year. The prize shall be awarded on the recommendation of the Head of the Department of Architecture. Value: $600.

**NI Pitt - RAIA Newcastle Division Prize**

A book prize awarded annually by the Newcastle Division of the Royal Australian Institute of Architects to a student at any stage in the course Bachelor of Science(Architecture) or Bachelor of Architecture for excellence in the field of architectural communication. Value: $200.

**The Newcastle Master Builders' Association Prize**

In 1994 this prize will be awarded to the student who achieves the best annual performance in Year 4 of the Bachelor of Building Internally. Value: $500. Further information on prizes and awards may be obtained from University Administration.

**Equipment**

At the commencement of the course recommendations for draughting equipment will be given. All students are required to obtain safety helmets and protective footwear to enable them to participate in site visits.

**Academic Dress**

The academic dress worn by graduates of the Faculty of Architecture of the University of Newcastle is as follows:

- **Gowns**
  - **Degree of Bachelor**
    A gown of black cloth as worn by Bachelors of Arts of the University of Cambridge.
  - **Degree of Master**
    A gown of black cloth as worn by Masters of Arts of the University of Cambridge.
section three

Rules Governing Bachelor Degrees offered in the Faculty of Architecture

Application of Rules

1. These Rules shall apply to all the academic awards of the University other than the degrees of Doctor and Master.

Interpretation

2. (1) In these Rules, unless the context or subject matter otherwise indicates or requires:

"award" means the degree, diploma (including graduate diploma and associate diploma) or graduate certificate for which a candidate is enrolled;

"course" means the total requirements of the program of study approved by the Academic Senate to qualify a candidate for the award as set out in the schedule;

"Dean" means the Dean of a Faculty;

"department" means the department offering a particular subject and includes any other body so doing;

"Faculty" means the Faculty responsible for the course;

"Faculty Board" means the Faculty Board of the Faculty;

"schedule" means the schedule to these Rules relevant to the award listed under the name of the Faculty;

"subject" means any part of a course for which a result may be recorded.

(2) A reference in these Rules to a Head of Department shall be read not only as a reference to the person appointed to that office but also, where a subject is not offered by a department as such, to the person approved by the Academic Senate to undertake the responsibilities of a Head of Department for the purpose of these Rules.

Admission

3. An applicant for admission to candidature for an award shall satisfy the requirements of the University governing admission to and enrolment in a course and any other additional requirements as may be prescribed in the schedule for that award.

Subject

4. (1) For the purposes of a course, a subject may be classified at a level determined by the Faculty Board.

(2) Each subject shall be allotted a credit point value by the Academic Senate after considering the advice of the Faculty Board of the Faculty in which the department is located.

(3) The Academic Senate, after considering a request from a Faculty Board, may determine that a subject be not offered during a particular academic year.

(4) The Faculty Board shall approve the subjects for the award. Any change in the list of approved subjects which will have effect in the following year shall be approved by a date determined by the Academic Senate.

(5) Where there is any change in the list of approved subjects, the Faculty Board shall make all reasonable provision to permit students already enrolled in the course to progress normally.

Enrolment

5. (1) A candidate may not enrol in any year in a combination of subjects which is incompatible with the requirements of the timetable for that year.

(2) Except with the permission of the Dean and subject to any contrary provision in the schedule:

[a] a candidate may not enrol in subjects totalling more than the equivalent of 40 credit points in any semester;

[b] a candidate shall not enrol in a subject which does not count towards the award; and

[c] a candidate shall not be permitted to enrol in any subject which is substantially equivalent to one which that candidate has previously counted towards a degree or diploma.

(3) A candidate for an award shall not enrol in a course or part of a course for another award in this University unless consent has first been obtained from the Dean and, if another Faculty is responsible for the course leading to that other award, the Dean of that Faculty, provided that a student may enrol in a combined course approved by the Academic Senate leading to two awards.

Pre-requisites and Co-requisites

6. (1) The Faculty Board on the recommendation of the Head of the Department may prescribe pre-requisites and/or co-requisites for any subject offered by that Department.

(2) Except with the permission of the Dean granted after considering any recommendation made by the Head of the Department, no candidate may enrol in a subject unless that candidate has passed any subjects prescribed as its pre-requisites at any grade which may be specified and has already passed or concurrently enrols in or is already enrolled in any subjects prescribed as its co-requisites.

(3) Except with the permission of the Dean, a candidate will not have satisfied a pre-requisite if the pre-requisite subject has not been completed in the preceding eight calendar years.

(4) A candidate attaining a Terminating Pass in a subject shall be deemed not to have passed that subject for pre-requisite purposes.

Credit

7. (1) A Faculty Board may grant credit to a candidate in specified and unspecified subjects, on such conditions as it may determine, in recognition of work completed in the University or another institution approved by the Faculty Board for this purpose or additionally as may be provided in the schedule.

(2) Except as may be otherwise provided in the schedule, a candidate shall not be given
Subject Requirements

8. (1) The subjects which may be completed in the course for the Award shall be those approved by the Faculty Board and published annually as the Approved Subjects section of the schedule.

(2) A candidate enrolled in a subject shall comply with such academic and practical requirements and submit such written or other work as the Department shall specify.

(3) Except as otherwise permitted by the Head of Department, any material presented by a candidate for assessment must be the work of the candidate and not have been previously submitted for assessment.

(4) To complete a subject a candidate shall satisfy published departmental requirements and gain a satisfactory result in such assessments and examinations as the Faculty Board shall require.

Withdrawal

9. (1) A candidate may withdraw from a subject or the course only by informing the Academic Registrar in writing and the withdrawal shall take effect from the date of receipt of such notification.

(2) A student shall be deemed not to have enrolled in a subject if that student withdraws from the subject:

(a) in the case of a semester length subject, before the Higher Education Contribution Scheme census date for that semester; or

(b) in the case of a full year subject, before the first Higher Education Contribution Scheme census date for that academic year.

(3) Except with the permission of the Dean:

(a) a candidate shall not be permitted to withdraw from a subject after the relevant date which shall be:

(i) in the case of a full year subject, the last day of that semester; or

(ii) in the case of a semester length subject, the last day of that semester; and

(b) a candidate shall not be permitted to withdraw from a subject on more than two occasions.

Leave of Absence

10. (1) Subject to any provision in the schedule, a candidate in good academic standing in the course:

(a) may take leave of absence of one year from the course; or

(b) with the permission of the Dean, may take leave of absence of two consecutive years from the course without prejudice to any right of the candidate to re-enrol in the course following such absence and with full credit in all subjects successfully completed prior to the period of leave.

(2) For the purposes of sub-rule (1), unless otherwise specified in the schedule, a candidate eligible to re-enrol shall be deemed to be in good academic standing.

Qualification for the Award

11. (1) To qualify for the award a candidate shall satisfactorily complete the requirements governing the course prescribed in the schedule.

(2) A subject which has been counted towards a completed award may not be counted towards another award, except to such extent as the Faculty Board may approve.

Combined Degree Programs

12. (1) Where so prescribed for a particular course, a candidate may complete the requirements for one Bachelor degree in conjunction with another Bachelor degree by completing a combined degree program approved by the Academic Senate on the advice of the Faculty Board and, where the other Bachelor degree is offered by another Faculty, the Faculty Board of that Faculty.

(2) Admission to a combined degree program shall be restricted to candidates who have achieved a standard of performance deemed satisfactory for the purposes of admission to the specific combined degree course by the Faculty Board(s).

(3) The work undertaken by a candidate in a combined degree program shall be no less in quantity and quality than if the two courses were taken separately.

(4) To qualify for admission to the two degrees a candidate shall satisfy the requirements for both degrees, except as may be otherwise provided.

Relaxing Provision

13. In order to provide for exceptional circumstances arising in a particular case, the Academic Senate on the recommendation of the Faculty Board may relax any provision of these Rules.

SCHEDULE — BACHELOR OF SCIENCE (ARCHITECTURE)

Enrolment

1. Except with the approval of the Faculty Board granted only in exceptional circumstances, a candidate may not enrol in subjects totalling less than 80 credit points.

Qualification for the Degree

2. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 240 credit points.

Grading

3. The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be sufficient, the degree may be conferred with merit.

Credit

4. The credit granted to candidates shall not exceed 160 credit points.
## COURSE STRUCTURE — BACHELOR OF SCIENCE (ARCHITECTURE)

<table>
<thead>
<tr>
<th>Subject No.</th>
<th>Subject Name</th>
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## SCHEDULE — BACHELOR OF ARCHITECTURE

### Admission to Candidature
1. An applicant for admission to candidature shall:
   a. have completed the requirements for admission to the degree of Bachelor of Science (Architecture) in the University of Newcastle;
   b. have completed the requirements for admission to a degree at any other institution recognised by the Faculty Board as equivalent to the degree of Bachelor of Science (Architecture) in the University of Newcastle;
   c. hold such other qualifications approved by the Faculty Board for the purpose of admission to candidature.

### Enrolment
2. In any year a candidate will enrol in 80 credit points unless granted the permission of the Faculty Board to enrol in fewer.

### Qualification for the Degree
3. To qualify for admission to the degree, a candidate shall pass the program of study approved by the Faculty Board totalling 180 credit points except that in the case of a candidate who has been admitted to candidature under Section 1(c), the Faculty Board may require a candidate to pass a program of study approved by it up to 240 credit points.

### Grading of the Degree
4. (1) The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree may be conferred with honours.
   (2) There shall be two classes of Honours, namely Class I and Class II.

### Credit
5. The credit granted to candidates shall not exceed 80 credit points.
COURSE STRUCTURE — BACHELOR OF ARCHITECTURE

<table>
<thead>
<tr>
<th>Subject No.</th>
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</table>

Faculty Board may require a candidate to pass a program of study including an additional 80 credit points of study or a Preliminary Year, if previous tertiary studies are deemed insufficient.

Preliminary Year

| ARCH610    | Architecture III Prelim       | FY     | 80  |                         |
| *ARCH611   | Architecture III Prelim (Part 1) | Sem 1  | 40  |                         |
| *ARCH612   | Architecture III Prelim (Part 2) | Sem 2  | 40  |                         |

NOTE:
* These subjects may not be offered in any one year if there is insufficient student demand or may be affected by staff availability. Please check at the Faculty Office for subject availability.

SCHEDULE — BACHELOR OF BUILDING

Course Programs

1. The course shall be pursued either as:
   (a) an Internal course program; or
   (b) an External course program.

Qualification for the Degree

2. To qualify for admission to the degree a candidate shall pass the program of study approved by the Faculty Board totalling 320 credit points.

Grading of the Degree

3. (1) The degree shall be conferred as an ordinary degree except that, where the performance of a candidate has reached a standard determined by the Faculty Board to be of sufficient merit, the degree may be conferred with honours.
   (2) There shall be two classes of Honours, namely Class I and Class II. Class II shall have two divisions: namely Division 1 and Division 2.

Credit

4. (1) Credit granted for work completed which qualified the candidate for an award in this University or for work completed at another institution whether the candidate qualified for an award or not, shall not exceed 160 credit points.
   (2) Where a candidate transfers between the course programs approved for the award, the Faculty Board may grant credit to a candidate under Rule 7(1) of the Rules Governing Academic Awards up to but not exceeding 240 credit points.

Transfer Between Course Programs

5. A candidate may transfer between the Internal and External course programs subject to such conditions determined by the Faculty Board.
COURSE STRUCTURE — BACHELOR OF BUILDING

<table>
<thead>
<tr>
<th>Code</th>
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**External Course**

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**Faculty Board Policies**

Faculty Board policies of relevance to students are as follows:

**Criteria for the Award of the Degree with Merit and Honours**

Merit and Honours awards are normally based on an average of the weighted marks obtained for all subjects taken in that course. Marks are weighted according to the credit point value of the individual subject.

The Head of Department may recommend to Faculty Board that a grade of merit or honours be awarded other than that indicated by the average of the weighted marks of the student concerned, or that no merit or honours be awarded to a particular student. In such a case Faculty Board may either make an award of merit or honours in accordance with the recommendation of the Head of Department concerned or in accordance with (a), (b), (c), (d), (e) or (f) below.

(a) To qualify for the degree of Bachelor of Science (Architecture) with Merit:

(i) a candidate's performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value, shall be 65% or better;

(ii) there shall be no failure in any subject; and

(iii) a candidate shall gain not less than a Credit in the final subject.

The Bachelor of Science (Architecture) with Merit will be awarded to those students who undertake the full three year program and have consistently good results throughout the three years.

(b) To qualify for the degree of Bachelor of Architecture with Honours Class I:

(i) a candidate's performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value, shall be 75% or better;

(ii) there shall be no failure in any subject; and

(iii) a candidate shall gain not less than a Distinction in the final subject.
(c) To qualify for the degree of Bachelor of Architecture with Honours Class II:

(i) a candidate’s performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value, shall be equal to or better than 65%.
(ii) there shall be no failure in any subject; and
(iii) a candidate shall gain not less than a Credit in the final subject.

(d) To qualify for the degree of Bachelor of Building with Honours Class I:

(i) a candidate’s performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value and level, shall be 75% or better;
(ii) there shall be no failure in any subject; and
(iii) a candidate shall gain not less than a Credit in the final subject.

(e) To qualify for the degree of Bachelor of Building with Honours Class II, Division I:

(i) a candidate’s performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value and level, shall be equal to or better than 70%;
(ii) there shall be no failure in any subject; and
(iii) a candidate shall gain not less than a Credit in the final subject.

(f) To qualify for the degree of Bachelor of Building with Honours Class II, Division II:

(i) a candidate’s performance expressed as an average of the marks obtained for all subjects of that course, weighted according to their credit point value and level, shall be less than 70% and equal to or better than 65%;
(ii) there shall be no failure in any subject; and
(iii) a candidate shall gain not less than a Credit in the final subject.

Special Consideration

It is recognised that during the course of their studies, students may suffer illness or other serious circumstances beyond their control which affect their preparation for or performance in their submissions. University Rules provide for students who believe that their preparation or performance in a submission has been adversely affected by such circumstances to apply for Special Consideration (refer to the General University Information Section in the coloured section of this Handbook).

University Rules for Special Consideration refer to examinations. Assessment in the Faculty of Architecture is carried out on a continuous basis on phases which make up the year programmes. Where the Rules state "examination", students are asked to substitute "phase submission" with reference to Special Consideration applications, ie.

"13. (1) (a) study during the year or preparation for a phase submission;
(b) attendance at or performance in an examination, interview or phase submission
being affected by illness, disability or other serious cause."

Applications for Special Consideration MUST be made on the prescribed form and should be lodged at the Faculty Office, Room 1-06 Architecture; telephone (049) 21.5570. Applications should be made not more than 3 days after the final submission date if the performance in or actual submission of work is affected or 7 days after the illness or other serious cause affecting the preparation of a phase submission.

Enquiries regarding Special Consideration should be directed to the Faculty Office.

Unsatisfactory Progress Semester Review

At the end of first semester a review of each student's work will be carried out by a semester review panel. Where the review panel determines that a student's performance has been poor, in terms of attendance or standard of work submitted, it may recommend the termination of the student's enrolment to the Head of Department who, within the terms of Rule 2 of the Rules Governing Unsatisfactory Progress, may terminate the student's enrolment in the subject.

Annual Review

Under Rule 3 of the Rules Governing Unsatisfactory Progress the Faculty Board may review the academic performance of a student who does not maintain a rate of progress considered satisfactory by the Faculty Board. The Faculty Board has determined that:

1. A student shall be considered to have failed to maintain a satisfactory rate of progress if, inter alia:

(a) he/she fails the same subject on more than one occasion; or
(b) he or she fails at the first attempt:

(i) Architecture 1 (BSc(Architecture))
(ii) Architecture 2 (Part I) (BSc(Architecture))
(iii) Architecture IV (B Architecture)
(iv) Building 1 (B Building)
(v) Building 151 (B Building - External)

2. Students who have failed to maintain a rate of satisfactory progress shall have their progress reviewed by a Faculty Progress Review Committee consisting of the Dean and Assistant Dean of the Faculty and the Head of the Department of Architecture, which may determine, under Rule 3(1) of the Rules Governing Unsatisfactory Progress:

(a) that the student be permitted to continue the course;
(b) that the student be permitted to continue the course subject to such conditions as the Dean may decide;
(c) that the student be excluded from further enrolment:

(i) in the course;
(ii) in the course and any other course offered in the Faculty;

(d) that the case be referred to the Admission and Progression Committee together with a recommendation for such action as the Dean considers appropriate.

Student Progression

A student who is required to repeat a subject may, in exceptional circumstances and at the discretion of the Head of the Department, be permitted to undertake work experience as an alternative to repeating the academic program for such part of the year's work as the Head of Department may determine. A student wishing to pursue this option should apply to the Head of Department who may approve a work experience program under the following conditions:

• it must be undertaken in the office of an architect or other professional in the building industry;
• the office must write to the Head of Department to confirm the arrangement, which must be approved by the Head of Department, and any change in the arrangements during the period of work experience must be notified to and approved by the Head of Department;
• the student must present a record of the work experience to a semester review panel at the end of the period, in the form of a daily work diary and a portfolio of work undertaken, and must satisfy the panel that the work experience has contributed to the student's professional development.

A student who is permitted to undertake work experience in partial fulfilment of the requirements for a subject will be required to enrol as a full-time student.

Year in Practice

Architecture students are encouraged to spend a year working in the office of an architect or related professional upon completion of the Bachelor of Science (Architecture) degree and before commencing the Bachelor of Architecture program. This year will be recognised by the Board of Architects as contributing towards the overall minimum seven year period of training/experience which is required of the architectural student, provided it is undertaken with the guidance of the Faculty. Advice on potential employers, log books and other relevant issues is available from the Faculty.

Part-Time Study

The architecture courses are generally considered to require a high level of commitment and time, and students who attempt them on a part-time basis often find this to be an onerous and difficult route. For this reason students are recommended to undertake full-time study wherever possible.

Bachelor of Science (Architecture) degree

The Bachelor of Science (Architecture) degree is a full-time course offered by year. In exceptional circumstances, and if suitable arrangements can be
made within the Department of Architecture, students may be permitted to enrol in part of a full-time year program.

**Bachelor of Architecture degree**

The subjects Architecture IV and V of the Bachelor of Architecture degree can be undertaken on the basis of part-time attendance, amounting to some 12 hours per week of contact hours, spread over three full academic years instead of two. This option is subject to certain conditions, in particular that the student undertake employment during the full period in an architect's office, or such other office as may be approved by the Dean of the Faculty. The pattern of enrolments for this option would be as follows:

*First Year* Architecture IV (Part 1)*

*Second Year* Architecture IV (Part 2)* and Architecture V (Part 1)*

*Third Year* Architecture V (Part 2)*

* These subjects may not be offered in any one year if there is insufficient student demand. Availability of subjects may also be affected by staff availability and other contingencies.

Further information on the conditions which apply to part-time enrolment may be obtained from the Faculty Secretary or the Dean of the Faculty.

**Bachelor of Building degree**

The Bachelor of Building degree is a full-time course offered by year, and in its internal mode is not offered on a part-time basis. It is available on a part-time basis in an external mode.

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**section five**

**Course Description — Architecture**

**Introduction**

The Bachelor of Science (Architecture) and Bachelor of Architecture degrees comprise three and two parts respectively, these five parts corresponding to the five years study of an uninterrupted full-time program leading to professional registration.

The Department of Architecture has adopted an integrated form of study in which all of the various discipline areas are treated within the single subject 'Architecture'. This integrated format applies in all five parts of the course, so that students enrol in one of the single subjects Architecture I, II, III, IV or V. In each of these subjects specific areas of knowledge and skill are developed, and these are grouped into seven study areas for the purposes of assessment and the statement of objectives.

**Study Areas**

The study areas developed through each subject of the course are as follows:

- **Professional Skills:**
  - forms of communication, including draughtsmanship, modelmaking, photography, video and verbal and written communication;
  - computer applications.

- **User Studies:**
  - concerning the people who commission and use buildings:
    - ergonomics;
    - the definition and interpretation of user and client needs.

- **Site Studies:**
  - concerning the measurement and interpretation of the site and its context:
    - surveying;
    - landscape design;
    - urban design.
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Cultural Studies:
- concerning the cultural context of the program:
  - history of architecture;
  - theory and criticism of architecture.

Design Studies:
- the development of design theory and processes.

Technical Studies:
- building structures;
- building construction;
- building services;
- environmental control;
- cost planning and specifications.

Implementation Studies:
- concerning the implementation of the building project and issues of:
  - the profession;
  - professional practice, law and ethics;
  - project management and business management for the architect.

These seven study areas define the scope of the curriculum, and are described in more detail under the subject descriptions which follow. Students will be expected to attain a required level of competence in all seven study areas at each level of the course. However the study areas do not exist as independent subjects; the essence of the integrated approach is that the knowledge and skills acquired in each study area must be capable of being applied in the context of other parallel areas of skill and knowledge. For although the development of knowledge and expertise in the individual disciplines which contribute to the practice of architecture is important, it is equally important that the interaction between areas of knowledge is appreciated, and that the integrative nature of design is understood. The method adopted for developing the study areas is thus intended to reflect the way in which the architect responds to design problems in practice.

Problem-Based Learning
- Rather than attend a series of independent lecture courses on the various study areas to be mastered, students are presented with a succession of problems of the type encountered in architectural practice, and so designed as to develop the various areas of skill and knowledge appropriate to that level of the course. Thus the organisation of these parts of the course resembles a matrix in which the individual study areas are introduced and developed through their successive application in problem exercises.

Working Method
- Students will usually work in groups of 8-10, with the guidance of a group tutor. In addition tutors with particular knowledge of the study areas will act as specialist consultants in running the problem-based exercises.

Hours
- Contact hours vary from week to week depending upon the stage of development of the design problem, but average approximately 19 hours per week for full-time students. An overall personal time commitment of 50 hours per week for full-time students is assumed, although this will vary between students. The time commitment of part-time students in the Bachelor of Architecture degree is approximately two-thirds that of full-time students.

Assessment
- At the start of each problem phase a list of assessment criteria will be made available to students. These criteria will form the basis for assessment at the end of the phase when students will receive advice on their work and, where necessary, help in rectifying areas of difficulty.

Students will be responsible for keeping a portfolio of all their work carried out during that year, and this will be the subject of a formal assessment on two occasions, at the end of the first semester, and at the end of the year, by a panel of examiners.

Credit Points
- Credit Point values associated with each subject are shown to the right of the subject heading and are abbreviated to 'cp'.

Texts
- The specialist consultant tutors will make available Learning Units and other specially prepared texts during the course of the problem exercises to support the development of appropriate skills and knowledge, and will advise on the purchase of text books.

ARCH110 ARCHITECTURE I 80cp
- PROBLEM-BASED EXERCISES
- The overall theme and focus of the Architecture I exercises is "Problems of the Workplace". This introduces the student immediately to architectural problems arising from clearly perceived needs, and in a relatively direct and unambiguous form. The individual exercises are of varying length, but are grouped into a series of phases, usually lasting about 5 weeks and having a common client, situation or location. They provide a sequence of design experiences which progressively focuses on aspects of designing for people at work, with straightforward objectives and social interactions, and in a variety of physical environments in the Hunter Region, including:
  - the survey and analysis of simple traditional buildings, including consideration of the history, climate and geography of the region;
  - the ergonomic design of the individual workplace, and the generation of simple spaces around the internal functions of a program;
  - the design of the envelope containing simple functional spaces, with regard to climatic and other environmental considerations as well as the functional connections between inside and out;
  - the design of an office containing simple functional spaces, with regard to climatic and other environmental considerations as well as the functional connections between inside and out;
  - consideration of strategies for assembling a number of functionally related spaces on plan, and introduction to the full production cycle of a building;
  - the organisation in plan and section of a more varied number of functional spaces within a contained envelope;
  - use of colour, materials and graphics as an integral part of the design process.

STUDY AREAS
- The topics covered during the course of the problem-based exercises in Architecture I are outlined in each of the study areas as follows:

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   Texts
   - The specialist consultant tutors will make available Learning Units and other specially prepared texts during the course of the problem exercises to support the development of appropriate skills and knowledge, and will advise on the purchase of text books.

   ARCH110 ARCHITECTURE I 80cp
   - PROBLEM-BASED EXERCISES
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     - the survey and analysis of simple traditional buildings, including consideration of the history, climate and geography of the region;
     - the ergonomic design of the individual workplace, and the generation of simple spaces around the internal functions of a program;
     - the design of the envelope containing simple functional spaces, with regard to climatic and other environmental considerations as well as the functional connections between inside and out;
     - the design of an office containing simple functional spaces, with regard to climatic and other environmental considerations as well as the functional connections between inside and out;
     - consideration of strategies for assembling a number of functionally related spaces on plan, and introduction to the full production cycle of a building;
     - the organisation in plan and section of a more varied number of functional spaces within a contained envelope;
     - use of colour, materials and graphics as an integral part of the design process.

   STUDY AREAS
   - The topics covered during the course of the problem-based exercises in Architecture I are outlined in each of the study areas as follows:

   Professional Skills:
   - architectural communication, including letterwriting, report writing, drawing, model making, photography, video;
   - development of communication skills, including colour, graphics;
   - introduction to word processing and other business applications of computers;
   - introduction to computing equipment;
   - measured drawing of a simple structure.

   User Studies:
   - patterns of work in the community and the need generated for buildings;
   - needs of client and user for simply defined problems;
   - ergonomics of the workplace;
   - user interaction with electronic equipment.

   Site Studies:
   - variety of landscape conditions in the Hunter Valley and its natural elements;
   - patterns of development in the Hunter Valley;
   - measured drawing of a simple structure and its site;
   - simple site surveys, contour surveys and site analysis.

   Cultural Studies:
   - The history of Australian Architecture having regard to the styles of Architecture;
   - the functional tradition in Western architecture, from 1800 to the present;
   - the strengths and limitations of the functionalist philosophy in modern architecture.

   Design Studies:
   - Introduction to design processes;
   - Introduction to architectural design theory;

   Technical Studies:
   - light, small-scale framed structures in timber;
   - introduction to basic structural types;
   - concepts of dead, live and wind loads, of elementary load analysis, of equilibrium of forces and force analysis, of transmission of forces in a structural system and load path analysis, and of structural stability.
selection, design and detailing of appropriate constructional solutions for simple framed floor
construction, wall construction and medium and low-pitched roof constructions, with
alternative claddings and linings;
• simple joinery components and fixtures;
• materials for simple building and an understanding of how those materials behave
from a technical, economical and environmental viewpoint;
• wired and piped services systems for a small building;
• interactions between buildings and their environment, and between people and their
workplace environments;
• problems of noise and glare, and environmental factors affecting the design of a simple building;
• solar geometry and passive solar control;
• principles of energy efficient design;
• simple estimating techniques, cost planning and analysis.

Implementation Studies:
• focus on the role of the architect as an individual employee;
• consideration of individual (personal) management skills, management of small group
activities, and issues of professional ethics.

ARCH111 ARCHITECTURE I (PART 1) 40cp
This subject covers the content of the first half of Architecture I. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH112 ARCHITECTURE I (PART 2) 40cp
This subject covers the content of the second half of Architecture I. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH211 ARCHITECTURE II (PART 1) 40cp
This subject covers the content of the first half of Architecture II. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH212 ARCHITECTURE II (PART 2) 40cp
This subject covers the content of the second half of Architecture II. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH310 ARCHITECTURE III 80cp

PROBLEM-BASED EXERCISES

The focus of Architecture II projects concerns how and where people live. The theme "Problems of the Dwelling" introduces the design of multi-cellular spaces for multiple objectives and social interactions, and for both individual and institutional clients, using framed and load-bearing low-rise structures. The design problems considered include:
• the design of a compact living/work unit;
• the design of an individual family house;
• the design of clusters of dwellings, and the spaces between them, raising issues of
community, privacy and landscape;
• the design of larger spaces for communal facilities associated with residential areas;
• the detailed design of specialised areas within communal facilities;
• the design of a medium scale public building.

STUDY AREAS
The topics covered in the study areas in Architecture II include the following:

Professional Skills:
• development and application of skills in all areas of architectural communication;
• introduction to production drawing;
• use of prepared computer programs for testing design performance;
• development of simple computer programming techniques relating to aspects of the building
process.

User Studies:
• housing provision in the community and the needs of different user groups;
• individual and social factors influencing house design and concepts of community and privacy;
• methods for identifying client and user needs;
• needs of handicapped and other special user groups.

Site Studies:
• photographic, contour and dimensional surveys of a site to enable analysis and preliminary
design;
• landscape problems of underground services, slope, terracing, steps and drainage;
• grass, shrub and tree environments integrated with building design.

Cultural Studies:
• investigation, through study of historical models, of issues arising in the design problems;
• evolution of house form in relation to social structure;
• creation of community and privacy both within the dwelling and in groupings of dwellings and
villages;
• detail design of forms and materials in the dwelling;
• impact of technological developments on dwelling form and construction;
• key developments in the design of housing in the nineteenth and twentieth centuries in
Europe, North America and Australia.

Design Studies:
• development of architectural design theory;
• introduction to conceptual design processes;
• introduction to study of graphic/analytic tools;
• schematic design of elements of architecture.

Technical Studies:
• analysis of simple trusses and beams;
• further concepts in structural stability;
• concepts of strength of materials, stress analysis and deformations;
• elementary concept of aggregation of structural elements to form a complete structure and of
continuity in structural systems;
• load-bearing masonry construction to three storeys;
• simple concrete floors; light timber and steel trusses; simple stair forms; retaining walls;
• materials and materials technology for load bearing, low rise masonry construction;
• building services for buildings;
• environmental appraisal of residential sites;
• physiological and psychological comfort requirements for home activities;
• thermal and acoustic performance of materials and construction methods used in residential
construction;
• environmental separation of incompatible activities;
• types of specifications, specification writing;
• specification for a house;
• basic estimating methods and estimates for a house.

Implementation Studies:
• focus on the small practice (including the sole practitioner);
• the impact on practice of private and public clients and small-scale builders;
• modes of practice in small firms;
• communication and documentation systems;
• simple contracts and tenders;
• quality, quantity, cost and time controls.

In addition to the core program, the scope of which is indicated above, students in Architecture II undertake an elective component which allows them to study some aspect of architecture in greater depth.

ARCH211 ARCHITECTURE II (PART 1) 40cp
This subject covers the content of the first half of Architecture II. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH212 ARCHITECTURE II (PART 2) 40cp
This subject covers the content of the second half of Architecture II. It is offered only in exceptional
circumstances and if suitable arrangements can be made within the department.
Details on availability and content may be obtained from the Dean or Faculty Secretary.

ARCH310 ARCHITECTURE III 80cp

PROBLEM-BASED EXERCISES

Architecture III extends the scale and complexity of design problems by considering a variety of public
building types, under the theme of "Problems of public space". These entail the study of a new group
The study area topics for Architecture III cover the following:

**Professional Skills:**
- Development of techniques in architectural communication for testing and presenting larger design proposals;
- Production drawings for larger projects;
- Applications, capabilities and relative costs of computer programs in the building industry;
- Computer programs for technical and design evaluations;
- Computers for draughting and design;
- Computer-based specifications.

**User Studies:**
- Assessment of need for different types of public facilities in the community;
- Public sector clients and other parties involved in the commissioning of public buildings.

**Site Studies:**
- Requirements for traffic, parking and services in relation to public buildings;
- Landscape design of the urban park and garden.

**Cultural Studies:**
- Survey of the history of European architecture;
- Individual study of selected aspects of history of European Architecture.
- Individual study of selected historical examples;
- Design Studies:
  - Concepts of symbolism, formality and order in public architecture;
  - Development of conceptual and detailed design processes;
  - Development of architectural design theory;
  - Introduction to formal architectural design analysis;
  - Detailed design of elements of architecture.

**Technical Studies:**
- Continuity in structural systems and their effects on structural analysis, design and construction;
- Structural design of simple structural elements using concrete and steel;
- Fire protection, fire resisting construction;
- Building compartmentation and means of escape;
- Piped and wired services, air-conditioning systems, lifts and escalators;
- Environmental appraisal of civic sites;
- Techniques of assessment and control of environmental conditions in the design process, with special reference to thermodynamics, ventilation and air-conditioning, lighting and acoustics, in the context of public buildings;
- Pre-contract cost planning;
- Post-contract cost control;
- Methods of writing specifications, and use of master specifications.

**Implementation Studies:**
- Focus on the medium-scale practice;
- Traditional and alternative modes of practice;
- Traditional and alternative modes of project management;
- Consideration of traditional and alternative documentation systems;
- Traditional and alternative means of quality, time and cost controls;
- Introduction to complex network analysis for decision and planning.
- Types of specifications, and legal and technical considerations.

In addition to the core program, the scope of which is indicated above, students in Architecture III undertake an elective component which allows them to study some aspect of architecture in greater depth.

**ARCH311 ARCHITECTURE III (Part 1) 40cp**
This subject covers the content of the first half of Architecture III. It is offered only in exceptional circumstances and if suitable arrangements can be made within the department.

Details on availability and content may be obtained from the Dean or Faculty Secretary.

**ARCH312 ARCHITECTURE III (Part 2) 40cp**
This subject covers the content of the second half of Architecture III. It is offered only in exceptional circumstances and if suitable arrangements can be made within the department.

Details on availability and content may be obtained from the Dean or Faculty Secretary.

**BACHELOR OF ARCHITECTURE**

**PRELIMINARY YEAR**
For the content of Preliminary Year subjects ARCH1610, ARCH1611 and ARCH1612, see content of ARCH1610, ARCH1611 and ARCH1612 respectively. Please check on subject availability at the Faculty Office.

**ARCH1410 ARCHITECTURE IV 80cp**

**PROBLEM-BASED EXERCISES**
Having considered a range of individual building types in the course of the design problems undertaken in Architecture I-II, the Architecture IV problems investigate the ways in which larger groupings and assemblages of buildings combine to generate the form of town and cities. Projects carried out under the theme "Problems of the City" include:

- High-rise buildings;
- Medium-rise, densely packed types, using atria, arcades and articulated pedestrian and vehicular circulations;
- The extension of environmental, circulation, land use and other design issues beyond the individual building plot;
- Commercial and multi-use building types;
- Conservation of buildings in the city.

**STUDY AREAS**
The scope of the study area topics for Architecture IV includes:

**Professional Skills:**
- Development of graphic and other communication skills;
- Use of computer to develop and monitor simple contracts and building time schedules.

**User Studies:**
- Institutional clients and their forms of organisation;
- Post occupancy studies of larger projects;
- Development Application Reports for larger projects;
- Feasibility studies for larger projects.

**Site Studies:**
- Planning frameworks and urban design guidelines for development in an urban context;
• concepts of urban design;
• landscape design in urban conditions for public amenity, conservation, commercial development and vehicle management.

Cultural Studies:
• investigation of the evolution of built form in an urban context, through the study of historical models, including the assessment of the impact of individual buildings on their environment, and of systems of circulation;
• theories and models of urban form;
• Critical investigation of the relationship between theory and practice in the work of twentieth century architectural movements.

Design Studies:
• development of personal theoretical position;
• development of formal critical architectural analysis techniques.

Technical Studies:
• structural solutions for medium and high-rise buildings;
• one-way, two-way flat plate, flat slab, waffle slab and other floor systems;
• elementary concepts of lightweight and prestressed concrete structures;
• architectural implications of construction and material selections for major urban buildings;
• Site investigation; of urban blocks including ground conditions and services;
• foundation systems and deep basement construction;
• curtain walling and cladding systems for high-rise buildings;
• the effect of wind, rain and solar loads on high-rise buildings;
• roofing systems for major urban developments including glazed roofs, roof gardens, tensile structures;
• logistics of construction of a major building on a constrained urban site;
• services for large buildings of multiple use and occupation;
• strategies for integrating structure and services;
• safety and security systems, compartmentation, smoke control, means of escape.

• environmental appraisal of public urban space;
• interaction of major buildings and their environments;
• primary and secondary control of internal environments;
• specifications for large/complex projects;
• management of document production, computer techniques;
• word processing, scheduling, coordination, preparation of specifications for a major project;
• financial control of building at all stages of design and construction;
• basic cost planning theory and practice; preparation of a cost plan for a major project.

Implementation Studies:
• focus on the large-scale practice and extended roles and services;
• consideration of the social and economic impact of major projects;
• the business aspects of practice;
• introduction to the major builder;
• facility management for major Investment projects.

In addition to the core program, the scope of which is indicated above, students in Architecture IV undertake an elective component which allows them to investigate some aspect of architecture in greater depth.

ARCH411 ARCHITECTURE IV (PART 1) 55cp
This subject is taken over one year of part-time study and covers the content of the first two-thirds of Architecture IV. Enrolment is subject to certain conditions, in particular that the student must be employed for the full period in an architect's office. Details of the conditions which apply are available from the Dean or Faculty Secretary. Please check on subject availability.

ARCH412 ARCHITECTURE IV (PART 2) 25cp
This subject is taken over one semester of part-time study and covers the content of the final third of Architecture IV. Enrolment is subject to certain conditions, in particular that the student must be employed for the full period in an architect's office.

Details of the conditions which apply are available from the Dean or Faculty Secretary. Please check on subject availability.

ARCH510 ARCHITECTURE V 50cp

PROBLEM-BASED EXERCISES
In the final year of study, students are able to select a major architectural design problem as the basis for their program of work through the year. This choice is intended to allow each student to choose a design problem which best suits their individual interests and the likely context of future practice. The chosen project is expected to be a demanding one, extending the areas of knowledge and skills developed over the previous years of study and allowing the student to present their achievement in some depth.

In order to allow students to research the typology and precedents of their selected projects, and to become familiar with the opportunities and constraints of the locality and with the modus operandi of the client type, the Architecture V program is introduced in the latter part of the previous year. Students are thus encouraged to have their project type and locality selected and approved in principle before the end of Year 4, so that some reading, visiting and information gathering can be conducted over the long vacation. Guidance on the scope of this work will be provided.

Students will be able to choose a tutor for the program, subject to staff availability, and will work under the general direction of a Year Manager who will provide guidance on all aspects of its development.

STUDY AREAS
The elective program is intended to provide the vehicle for the development of knowledge and skills in all seven study areas, and the final presentation of material, on which assessment will be based, will include documentation to support this. As a guide, the scope of evidence of competence expected in each area is as follows:

Professional Skills:
• all conventional areas of graphic presentation and modelmaking suitable for communication with client and users, with other members of the design team, and with contractors;
• written and oral communication;
• appropriate use of computer applications at all stages.

User Studies:
• appraisal of needs and intentions of client and users;
• understanding of wider social and economic context of the project;
• use of quantitative methods to test the feasibility of the project.

Site Studies:
• analysis of site data and development of appropriate design strategies and solutions;
• analysis of urban design context and development of appropriate design strategies and solutions;
• analysis of landscape context and development of appropriate design strategies and solutions.

Cultural Studies:
• investigation of the historical context of the site and development of appropriate response;
• investigation of the history of the building type and assessment of current tendencies;
• awareness of current theories of architecture, and their implications for the project.

Design Studies:
• distillation and application of a personal theory of architecture;
• development of a progressive design strategy, appropriate to the project type, site particularities and at each stage, to the level of the problem.

Technical Studies:
• selection and schematic design of an appropriate structural solution;
• selection of constructional systems, components and materials and the design of key elements to a detailed level;
• resolution of design for structure, fabric and services at a general and detail level;
• design for safety and security;
• selection of schematic design of passive and active responses to climate;
Faculty of Architecture

Section Five

Bachelor of Architecture

- assessment of environmental impact;
- design for environmental control;
- preparation of outline specification;
- progressive development of a cost plan in step with design development.

Implementation Studies:
- focus on professional development of the individual;
- personal attitudes and skills for effective design and control of a complex project;
- effective interaction with consultants, authorities and the client;
- application of practice skills to a complex project;
- introduction to economic feasibility studies.

RESEARCH STUDY

In addition to the work undertaken in all of the above study areas, each student will carry out a study in any one of these areas by choice, to a greater depth.

ARCH611 ARCHITECTURE V (PART 1) 25cp

This subject is taken over one semester of part-time study and covers the content of the first third of Architecture V. Enrolment is subject to certain conditions. In particular, that the student must be employed for the full period in an architect's office. Details of the conditions which apply are available from the Dean or Faculty Secretary. Please check on subject availability.

ARCH612 ARCHITECTURE V (PART 2) 55cp

This subject is taken over one year of part-time study and covers the content of the final two-thirds of Architecture V. Enrolment is subject to certain conditions. In particular, that the student must be employed for the full period in an architect's office. Details of the conditions which apply are available from the Dean or Faculty Secretary. Please check on subject availability.

**Section Six**

**Course Description — Building**

Introduction

Internal Studies

The Internal Bachelor of Building Degree is a four year program designed to prepare students for a professional career in either building or quantity surveying.

The degree program is structured in an integrated form of study in which each of the various discipline areas are treated within the single subject Building. This integrated format applies in all four years of the course, so that students enrol in one of the single subjects Building I, II, III or IV. In each of these subjects specific areas of knowledge and skill are developed, and these are grouped into four study areas for the purposes of assessment and the statement of objectives.

The Building Degree program is also integrated with the Architecture program. Students of Architecture, Building and Quantity Surveying will undertake projects with the same theme but with different emphasis and perspectives. This integrative approach attempts to overcome the normally perceived barriers which exist between the process of design and the process of construction.

External Studies

The external Bachelor of Building degree is a six year program designed for students currently working in the disciplines of building and quantity surveying who wish to pursue a professional career.

The degree has the same objectives and is structured similarly to the internal program, ie in an integrated form of study. Students enrol in one of the single subjects Building 151, 152, 153, 251, 252, 253, 351, 352, 353, 451, 452, 453 each subject representing one half year of the program.

Study Areas

The study areas developed through each subject of the course are as follows:

**Communication**

- various forms of communication - graphic, written, verbal;
- computer applications.
Technical Studies
- building technology - materials and construction;
- structures;
- services;
- surveying;
- environmental studies.

Economics
- quantity and surveying measurement and estimating;
- cost planning and control;
- building economics.

Management
- organisational behaviour;
- building management;
- project management;
- professional practice;
- building law and ethics.

These four study areas define the scope of the curriculum, and are described in more detail under the subject descriptions which follow. Students will be expected to attain a required level of competence in all four study areas at each level of the course. However, the study areas do not exist as independent subjects; the essence of the integrated approach is that the knowledge and skills acquired in each study area must be capable of being applied in the context of other parallel areas of skill and knowledge.

Although the development of knowledge and expertise in the individual disciplines which contribute to the practice of building and quantity surveying is important, it is equally important that the interaction between the areas of knowledge is appreciated, and that the integrative nature of the building process is understood. The method adopted for developing the study areas is thus intended to reflect the way in which builders and quantity surveyors respond to problems in practice.

Integrated Learning

Rather than regard the various study areas as discrete pieces of information which can be assimilated independently of one another, students are presented with a linked series of tasks or projects of the type encountered during the building procurement and production process, and so designed to develop the various areas of skill and knowledge appropriate to that level of the course.

Hours
Internal Studies
Contact hours for internal students will average 21 hours per week.

External Studies
The work load for external students will average 20 hours per week.

Assessment
Students will be assessed by examination, assignments and continuous assessment.

Credit Points
Credit Point values associated with each subject will be shown to the right of the subject heading and will be abbreviated to ‘cp’.

Text
Learning Units and other specially prepared texts will be made available during the course of the projects to support the development of appropriate skills and knowledge. These Learning Units will complement the text books appropriate to each study area.

Course Structure
The weighting and focus given to the four study areas is illustrated in the diagram below. Integration between study areas is achieved by the fact that individual projects in each study area will simultaneously address the same building type. Additionally and at various stages throughout the course students will also undertake an integrative major project which will draw on all four study areas.

### Building I

**Introduction**
The overall objective of Building 1 is to acquaint students with the multi-faceted nature of the building industry. The intention is to develop in the students a sense of purpose and direction and to encourage students to perceive themselves as future building and quantity surveying professionals. Emphasis in Building 1 is on rapidly developing proficiency in the Technical Studies and Building Economics and Management study areas.

A range of building types will be studied and the problems represented by these building types will increase in complexity throughout the progression of the year. In BLDO110 the following building types will be studied sequentially:
- home extension;
- warehouse;
- detached house;
- cluster of town houses;
- low energy house

**STUDY AREAS**
The topics covered during the course of Building I are outlined in each of the study areas as follows:

**Communication**
- Communication skills including letter writing, report writing, graphics, photography and verbal presentation;
- Introduction to word processing and other business applications of computers including electronic office equipment.

**Technical Studies**

**Building Construction and Materials**
- Introduction to domestic scale construction;
- simple footings and retaining walls;
- brickwork;
- timber framed construction;
- concrete slabs on ground;
- doors, windows, fittings, hardware.

**Building Services**
- drainage;
- septic systems;
- hydraulic services;
- electricity services;
- space heating, ventilation, air conditioning;
- lighting installations - internal, external.

**Environmental Studies**
- interactions between buildings and the environment;
- comfort criteria;
- thermal performance of domestic buildings;
- problems of noise and glare;
- productivity and the working environment;
- solar geometry and passive solar control;
- lighting design principles;
- principles of energy efficient design.

**Structures**
- Introduction to basic structural types;
- introduction to forces and moments;
- concepts of dead, live, wind and earthquake loadings;
- load analysis;
- force analysis;
- concepts of equilibrium;
- load path analysis;
- structural aspects of brick veneer, post and beam and stud frames construction;
- analysis of roof trusses and beams;
- introduction to portal frames;
- approximate sizing of structural elements;
- concepts of structural stability.

**Surveying**
- principles of measurement;
- taking levels;
- setting out domestic scale buildings;
- setting out large ground slabs;
- plumbing of steel and precast concrete framed buildings.

**Economics**

**Building Economics and Cost Planning**
- introduction to macro-economics;
- major variables in capital cost prediction;
Quantity Surveying Measurement and Estimating

- Introduction to the concepts of measurement;
- single rate methods of prediction;
- measure and estimate:
  - minor site works;
  - timber framed construction;
  - brickwork;
  - doors and windows;
  - domestic services;
  - single industrial services;
  - finishing trades;
  - roadworks (pavement, car parks);
  - steelwork;
  - ground slabs.

Management

- Introduction to management theory;
- Introduction to time management;
- Introduction to programming;
- use of bar charts and other programming tools;
- organisation of simple industrialised systems.

**BIDG151 BUILDING 151 30cp**

This subject is taken over one semester of part-time, external study (Year 1, Semester 1) and covers the syllabus and content of the first third of BLDG110. The building types studied in this unit are as follows:

- home extension
- warehouse

**BIDG152 BUILDING 152 25cp**

This subject is taken over one semester of part-time, external study (Year 1, Semester 2) and covers the syllabus and content of the second third of BLDG110. The building types studied in this unit are as shown:

- detached house

**BIDG153 BUILDING 153 25cp**

This subject is taken over one semester of part-time, external study (Year 2, Semester 1) and covers the syllabus and content of the final third of BLDG110. The building types studied in this unit are as follows:

- cluster of town houses;
- low energy house

**BIDG210 BUILDING II 80cp**

**Introduction**

On completion of Building I the student will have developed a sound technical knowledge of simple building types. The emphasis in Building II is on developing a student's ability to apply this technical knowledge to a series of management and economic problems. Technical studies will also continue to improve the student's proficiency in this study area.

As in Building I the technical complexity of problems will increase throughout the progression of the year. In BLDG210 the following building types will be studied sequentially:

- commercial development
- public school
- shopping centre

**Study Areas**

The topics covered in the study areas in Building II include the following:

- Communication
  - development and application of presentation skills to client bodies;
  - computer techniques in bill preparation and estimating;
  - use of macro commands in computer aided design.

- Technical Studies

  - Building Construction and Materials
    - frame and floor systems;
    - industrialised building systems;
    - detailed construction of basements, floors, walls, roofs, claddings, internal elements and finishes;
    - selection and performance of materials and components;
    - assembly implications of steel and concrete construction.

  - Building Services
    - piped and wired services;
    - air-conditioning systems, lifts and escalators;
    - fire protection and fire resisting construction;

- Environmental Studies

  - zoning and compartmentation of buildings;

  - principles, requirements and modelling of building thermal performance;
  - energy management principles;
  - environmental impact of building.

**Structures**

- further concepts of structural stability;
- concepts of strength of materials, stress analysis and deformations;
- elementary concepts of aggregation of structural elements to form a complete structure;
- continuity in structures;
- analysis of portal frames;
- introduction to concrete floors;
- concepts of framing systems for multi-storey buildings (up to 5 storeys);
- structural aspects of masonry construction;
- approximate sizing of structural elements.

**Surveying**

- use of electronic measurement Instruments;
- condition surveys of existing buildings.

**Economics**

- Building Economics and Cost Planning
  - cost modelling;
  - systems approach to cost planning;
  - application of cost planning and cost control systems to building;
  - design and construction processes.

**Quantity Surveying Measurement and Estimating**

- measure and estimate:
  - steel and concrete frame construction;
  - curtain walling systems;
  - shop fitting;
  - lifts, fire detection, security systems;
  - alterations to existing buildings.

**Management**

- construction planning techniques;
- site organisation and processes;
- materials and plant management systems;
- preparation of feasibility studies;
- bidding strategies;

- turnkey (package deal) projects;
- industrial relations;
- client liaison.

**BIDG251 BUILDING 251 30cp**

This subject is taken over one semester of part-time, external study (Year 3, Semester 1) and covers the syllabus and content of the first third of BLDG210.

The building type studied in this unit is as shown:

- commercial development

**BIDG252 BUILDING 252 25cp**

This subject is taken over one semester of part-time, external study (Year 3, Semester 2) and covers the syllabus and content of the second third of BLDG210.

The building type studied in this unit is as shown:

- public school

**BIDG253 BUILDING 253 25cp**

This subject is taken over one semester of part-time, external study (Year 3, Semester 2) and covers the syllabus and content of the final third of BLDG210.

The building type studied in this unit is as shown:

- shopping centre

**BIDG310 BUILDING III 80cp**

**Introduction**

Building III extends the students' horizons by considering buildings which present a high degree of complexity and also by the introduction of some aspects of civil engineering works. A strong emphasis is placed on the management and economic aspects of the building procurement and production process. On completion of this year students should have well developed organisational and problem solving abilities and be capable of applying these abilities in situations of some technical complexity.

In BLDG310 the following project types will be studied sequentially:

- building rehabilitation;
- CBD development;
- roads and bridges;
- high rise development
Study Areas
The topics covered in the study areas in Building III include the following:

Communication and Computing Studies
- computerised industry databases:
  - software for cost and construction planning;
  - professional reports

Technical Studies
Building Construction and Materials
- site investigation of urban blocks including ground conditions and services;
- foundation systems and deep basement construction;
- curtain walling and cladding systems for high-rise buildings;
- roofing systems for major urban developments; including glazed roofs, roof gardens and tentacle structures;
- roads and bridges;
- civil engineering plant and equipment.

Building Services
- services for large buildings of multiple use and occupation;
- safety and security systems, compartmentation, smoke control, means of escape.

Environmental Studies
- environmental appraisal of public urban space;
- interaction of major buildings and their environments;
- control of internal environments of building complexes;
- wind, rain, and solar loads on high-rise buildings.

Structures
- continuity in structural systems;
- structural design of structural elements using concrete and steel;
- analysis of building frames;
- floor systems - one way, two way, flat slabs, flat plates, waffle slabs, composite etc;
- concepts of joint design;
- structural aspects of medium to high rise buildings;
- elementary concepts of large span light weight systems;
- elementary concepts of prestressed concrete systems.

Economics
Building Economics and Cost Planning
- asset management;
- energy management;
- comparative cost studies;
- sensitivity analyses;
- risk management.

Quantity Surveying Measurement and Estimating
- measurement and estimating of civil engineering works;
- tendering and bidding theory;
- statistical approach to estimating major buildings.

Management
- management of professional and site offices;
- claims and contractual issues;
- disputes resolution;
- financial control of building at all stages of design and production;
- logistic of construction management of a major building on a constrained urban site;
- building project management;
- employment issues.

BLDG351 BUILDING 351 25cp
This subject is taken over one semester of part-time, external study (Year 5, Semester 1) and covers the syllabus and content of the first third of BLDG310. The building type studied in this unit is as shown:
- high rise development

BLDG410 BUILDING IV 80cp
Introduction
In the first semester of BLDG410, students focus on a major project, via a hospital. In the second semester, students undertake a research project of their own choosing. This choice is intended to allow each student to choose projects which best suit their individual interest and in particular allow students to explore a specialisation in either quantity surveying or building. The chosen projects are expected to be demanding, extending the areas of knowledge and skills developed over the previous years of study and allowing the students to present their achievements in some depth.

Students will be able to choose a tutor for the program, subject to staff availability, and will work under the general direction of a Year Manager who will provide guidance in all aspects of its development.

Study Areas
The selected projects are intended to provide the vehicle for the development of knowledge and skills in all four study areas. The final presentation of material, on which assessment will be based, will include documentation to support this. As a guide, the scope of evidence of competence in each area is as follows:

Communication
- written and oral communication with clients and consultants;
- appropriate use of computers through all stages of the building procurement and construction process.

Technical Studies
- selection and schematic design of an appropriate structural solution;
- basic unit aggregation patterns, pattern manipulations, etc;
- structural design issues;
- innovative structural systems;
- design and construction of formwork;
- strategies for integration of structures, fabrics and services at a detailed level;
- strategic management of environmental issues.

BLDG451 BUILDING 451 25cp
This subject is taken over one semester of part-time, external study (Year 5, Semester 2) and equates to the first semester of BLDG410.

BLDG452 BUILDING 452 25cp
This subject is taken over one semester of part-time, external study (Year 6, Semester 1). Its content, together with that of BLDG453, equates to the second semester of BLDG410.

BLDG453 BUILDING 453 30cp
This subject is taken over one semester of part-time external study (Year 6, Semester 2). Its content, together with that of BLDG452, equates to the second semester of BLDG410.
section seven
Rules Governing the Degrees of Master of Architecture and Master of Building

RULES GOVERNING MASTERS DEGREES

PART I - GENERAL


2. In these Rules and the Schedules thereto, unless the context or subject matter otherwise indicates or requires:
   - "Faculty Board" means the Faculty Board of the Faculty responsible for the course in which a person is enrolled or is proposing to enrol;
   - "Program" means the program of research and study prescribed in the Schedule;
   - "Schedule" means the Schedule of these Rules pertaining to the course in which a person is enrolled or is proposing to enrol; and
   - "Thesis" means any thesis or dissertation submitted by a candidate.

3. These Rules shall not apply to degrees conferred honoris causa.

4. A degree of Master shall be conferred in one grade only.

2. An application for admission to candidature for a degree of Master shall be made on the prescribed form and lodged with the Secretary to the University by the prescribed date.

3. (1) To be eligible for admission to candidature an applicant shall:
   (a) have satisfied the requirements for admission to a degree of Bachelor in the University of Newcastle as specified in the Schedule; or
   (b) have satisfied the requirements for admission to a degree or equivalent qualification, approved for the purpose by the Faculty Board, in another tertiary institution; or
   (c) have such other qualifications and experience as may be approved by the Academic Senate on the recommendation of the Faculty Board or otherwise as may be specified in the Schedule; and
   (d) have satisfied such other requirements as may be specified in the Schedule.

2. Unless otherwise specified in the Schedule, applications for admission to candidature shall be considered by the Faculty Board which may approve or reject any application.

3. An applicant shall not be admitted to candidature unless adequate supervision and facilities are available. Whether these are available shall be determined by the Faculty Board unless the Faculty Board otherwise provides.

4. To qualify for admission to a degree of Master a candidate shall enrol and satisfy the requirements of these Rules including the Schedule.

5. The program shall be carried out:
   (a) under the guidance of a supervisor or supervisors either appointed by the Faculty Board or as otherwise prescribed in the Schedule;
   (b) as the Faculty Board may otherwise determine.

6. Upon request by a candidate the Faculty Board may grant leave of absence from the course. Such leave shall not be taken into account in calculating the period for the program prescribed in the Schedule.

7. (1) A candidate may withdraw from a subject or course only by informing the Secretary to the University in writing and such withdrawal shall take effect from the date of receipt of such notification.
   (2) A candidate who withdraws from any subject after the relevant date shall be deemed to have failed in that subject unless granted permission by the Dean to withdraw without penalty. The relevant date shall be:
      (a) in the case of a subject offered in the first semester, the Monday of the 9th week of first semester;
      (b) in the case of a subject offered in the second semester, the Monday of the 9th week of second semester;
      (c) in the case of any other subject, the Monday of the 3rd week of second semester.

8. (1) If the Faculty Board is of the opinion that the candidate is not making satisfactory progress towards the degree then it may terminate the candidature or place such conditions on its continuation as it deems fit.

9. In exceptional circumstances arising in a particular case, the Academic Senate, on the recommendation of the Faculty Board, may relax any provision of these Rules.

PART II - EXAMINATION AND RESULTS

10. The Examination Rules approved from time to time by the Senate shall apply to all examinations with respect to a degree of Master with the exception of the examination of a thesis which shall be conducted in accordance
with the provisions of Rules 12 to 16 inclusive of these Rules.

11. The Faculty Board shall consider the results in subjects, the reports of examiners and any other recommendations prescribed in the Schedule and shall decide:
(a) to recommend to the Council that the candidate be admitted to the degree; or
(b) in a case where a thesis has been submitted, to permit the candidate to resubmit an amended thesis within twelve months of the date on which the candidate is advised of the result of the first examination or within such longer period of time as the Faculty Board may prescribe; or
(c) to require the candidate to undertake such further oral, written or practical examinations as the Faculty Board may prescribe; or
(d) not to recommend that the candidate be admitted to the degree, in which case the candidature shall be terminated.

PART III - PROVISIONS RELATING TO THESIS

12. (1) The subject of a thesis shall be approved by the Faculty Board on the recommendation of department in which the candidate is carrying out the research for the thesis.

(2) The thesis shall not contain as its main content any work or material which has previously been submitted by the candidate for a degree in any tertiary institution unless the Faculty Board otherwise permits.

13. The candidate shall give to the Secretary to the University three months' written notice of intention to submit a thesis and such notice shall be accompanied by any prescribed fee.

14. (1) The candidate shall comply with the following provisions concerning the presentation of a thesis:
(a) the thesis shall contain an abstract of approximately 200 words describing its content;
(b) the thesis shall be typed and bound in a manner prescribed by the University;
(c) three copies of the thesis shall be submitted together with:

(i) a certificate signed by the candidate that the main content of the thesis has not been submitted by the candidate for a degree of any other tertiary institution; and
(ii) a certificate signed by the supervisor indicating whether the candidate has completed the program and whether the thesis is of sufficient academic merit to warrant examination; and
(iii) if the candidate so desires, any documents or published work of the candidate whether bearing on the subject of the thesis or not.

(2) The Faculty Board shall determine the course of action to be taken should the certificate of the supervisor indicate that in the opinion of the supervisor the thesis is not of sufficient academic merit to warrant examination.

15. The University shall be entitled to retain the submitted copies of the thesis, accompanying documents and published work. The University shall be free to allow the thesis to be consulted or borrowed and, subject to the provisions of the Copyright Act, 1968 (Cth), may issue it in whole or any part in photocopy or microfilm or other copying medium.

16. (1) For each candidate two examiners, at least one of whom shall be an external examiner (being a person who is not a member of the staff of the University), shall be appointed either by the Faculty Board or otherwise as prescribed in the Schedule.

(2) If the examiners' reports are such that the Faculty Board is unable to make any decision pursuant to Rule 11 of these Rules, a third examiner shall be appointed either by the Faculty Board or otherwise as prescribed in the Schedule.

1. The degree of Master of Architecture shall be a degree of research offered in the Faculty of Architecture.

2. (1) To be eligible for admission to candidature an applicant shall:
(a) have satisfied the requirements for admission to the degree of Bachelor of Architecture from the University of Newcastle or any other approved university; or
(b) in exceptional cases produce evidence of such academic and professional attainments as may be approved by the responsible body.

3. To qualify for admission to the degree, a candidate shall complete, to the satisfaction of the responsible body, a program consisting of:
(a) such work and examinations as may be prescribed by the Faculty Board and the responsible body; and
(b) a thesis embodying the results of an original investigation.

4. The program shall be completed in:
(a) not less than two academic years except that, in the case of a candidate who has completed the requirements for a degree of Bachelor with honours or a qualification deemed by the responsible body to be equivalent or who has had previous research experience, the responsible body may reduce this period to not less than one academic year, and
(b) except with the permission of the responsible body, not more than 5 years.

A research PhD(Architecture) is offered. The proposed rules are to be endorsed by Council. Further information can be obtained from the Postgraduate Studies and Scholarships section. You are also referred to the University's "Guidelines for Research Higher Degree Programme".  

SCHEDULE 1 — MASTER OF ARCHITECTURE

1. The degree of Master of Architecture shall be a degree of research offered in the Faculty of Architecture.

2. (1) To be eligible for admission to candidature an applicant shall:
(a) have satisfied the requirements for admission to the degree of Bachelor of Architecture from the University of Newcastle or any other approved university; or
(b) in exceptional cases produce evidence of such academic and professional attainments as may be approved by the responsible body.

(2) Diplomates of the New South Wales Department of Technical and Further Education seeking admission to candidature under the provisions of section 2(1)(b) of this Schedule shall be required to produce evidence of academic and professional progress over a period of at least five years from the time of gaining the diploma.

3. To qualify for admission to the degree, a candidate shall complete, to the satisfaction of the responsible body, a program consisting of:
(a) such work and examinations as may be prescribed by the Faculty Board and the responsible body; and
(b) a thesis embodying the results of an original investigation.

4. The program shall be completed in:
(a) not less than two academic years except that, in the case of a candidate who has completed the requirements for a degree of Bachelor with honours or a qualification deemed by the responsible body to be equivalent or who has had previous research experience, the responsible body may reduce this period to not less than one academic year, and
(b) except with the permission of the responsible body, not more than 5 years.
section eight
Subject Computer Numbers

The subjects selected should be written on the enrolment form in the following manner.

BACHELOR OF SCIENCE (ARCHITECTURE) 10028

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*NOTE: These subjects may not be offered in any one year if there is insufficient student demand or may be affected by staff availability.