The University of Newcastle

FACULTY OF ARCHITECTURE HANDBOOK
The University of Newcastle Calendar consists of the following volumes:

- Volume 1 — Legislation
- Volume 2 — University Bodies and Staff
- Volume 3 — Faculty of Architecture Handbook
- Volume 4 — Faculty of Arts Handbook
- Volume 5 — Faculty of Economics and Commerce Handbook
- Volume 6 — Faculty of Education Handbook
- Volume 7 — Faculty of Engineering Handbook
- Volume 8 — Faculty of Medicine Handbook
- Volume 9 — Faculty of Science and Mathematics Handbook
- Volume 11 — Faculty of Music Handbook

Also available are the Undergraduate Guide and Postgraduate Prospectus.

This Volume is intended as a reference handbook for students enrolling in courses conducted by the Faculty of Architecture.

The colour band, Garnet BCC 160, on the cover is the lining colour of the hood of Bachelors of Architecture of this University.

The information in this Handbook is correct as at 31st October 1989.

ISBN 0159 — 3412

Recommended Price: Four dollars and fifty cents plus postage.
THE DEAN’S FOREWORD

The profession of architecture, like the building industry it serves, is traditionally subject to the fluctuations of the general economy. Nevertheless, in times of both expansion and recession it provides for a continuing and essential social need. In meeting that need the profession provides opportunities for a wide range of activities and skills, from the refurbishment of historic structures to the design of new facilities, and from the investigation of building materials to the management of construction programmes.

For the student of architecture, this scope is reflected in the combination of areas of knowledge and skills which the undergraduate architectural courses are designed to develop. Embracing graphic skills as well as scientific knowledge, the study of history as well as of the latest developments in computer aided design, they call into play 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 we call 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 solutions to real problems which underlies the most effective contributions which an architect can make.

We believe that the best way in which a school of architecture can help a student develop this capacity is by dealing with relevant problems in a way which integrates the various areas of skill and knowledge required. It is this approach which gives the Newcastle Faculty its particular flavour, and which is guiding the development of its courses. As a compact, single-department Faculty, with strong roots in the community of the Hunter Valley region, it is well placed to extend the standards of excellence achieved by its students in the past.

BARRY S. MAITLAND,  
Dean
FACULTY OF ARCHITECTURE STAFF

Dean B.S. Maitland, DipArch, MA(Camb), PhD(Sheff), RIBA, ARAIA
Sub-Dean M.F. Park, BArch(NSW), ASTC

Faculty Secretary
D. Rigney, BA, MLIu(NE)

DEPARTMENT OF ARCHITECTURE

Professor B.S. Maitland, DipArch, MA(Camb), PhD(Sheff), RIBA, ARAIA (Head of Department)

Senior Lecturers
H.K. Banerjee, BE(Calc), MTech(Kharagpur), PhD(Glas), MBA(WAust), FIE(Ind), MIE(Aust)
R.McL. Cowdroy, ASTC, BArch(NSW), MBldSc(Syd), MBA, FRAIA
L.N. Johnston, DipArch(Dund), ARAIA, MRIAI, MBIM
M.F. Park, BArch(NSW), ASTC
J.R. Rockey, BArch(NSW), PhD(Angelicum, Rome), DPhil(Oxf), FRAIA
D.J. Stafford, BArch, BA(Canberra CAE), FRAIA, RIBA

Lecturers
S.E. Chen, BSc(Arch), BArch, MArch, ARAIA
R.J. Donaldson, BArch
A.J. Kingsland, BArch(Melb),
R.J. Moore, BArch(NSW Institute of Technology), DipEd(STC), MA(NSW), ARAIA

Senior Technical Officer P. Thomas

Technical Officer P. Muller, AssocDipArt/Craft, Phot(NCAE), MAIPP

Laboratory Craftsman D.L. Anderson

Computer Programmer T. Gimbert, BSc(CompSc)(WCU Philadelphia)

Departmental Office Staff
D.L. McNeil
P. Clark
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:
The University of Newcastle
Faculty of Architecture
NSW 2308
The University telephone number is 68 0401.
The Departmental Office extension number is 361.

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
Holders of the degree of Bachelor of Architecture of the University are eligible to be registered as architects under the New South Wales Architects Act (No 8, 1921, as amended) and the Regulations under that Act.
An up-to-date copy of the Act and Regulations is held in the Departmental Office as is a stock of forms for application for registration as an architect.
Registered architects may apply to the New South Wales Builders Licensing Board for a licence to practise as builders under the Builders Licensing Act (NSW 1957).

Professional Association
Students enrolled in the Faculty of Architecture are advised to apply for student membership of the Royal Australian Institute of Architects. The Institute issues a wide range of publications and holds numerous functions both social and educational at specially reduced rates for students, all of which should be of interest and value to the student architect.

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.

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
Newcastle Gas Co. Prize
This prize, donated by the Newcastle Gas Co. Ltd, is awarded at the end of 3rd year to the outstanding student in the technology study areas of the Bachelor of Science (Architecture) degree course. Value $50.

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 $300.

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 $60.

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 course. Value $80.

RAIA Annual NSW Chapter Prize
The New South Wales 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.

NB 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, for excellence in the field of architectural communication. Value $100.

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
(a) Degree of Bachelor
A gown of black cloth as worn by Bachelors of Arts of the University of Cambridge.
(b) Degree of Master
A gown of black cloth as worn by Masters of Arts of the University of Cambridge.
(c) Degree of Doctor of Philosophy
A gown of garnet cloth faced with silver grey to a width of 10 cms.

Caps and Bonnets
(a) Degree of Bachelor and Master
Either a black cloth tichener cap or a black Canterbury cap.
(b) Degree of Doctor of Philosophy
A black velvet bonnet with a silver cord.

Hoods
(a) Degree of Bachelor of Science (Architecture)
A full hood of black silk lined to a depth of 15 cms with garnet and a 4 cm edging of silver grey
(b) Degree of Bachelor of Architecture
A full hood of black silk lined to a depth of 15 cms with garnet.
(c) Degree of Master of Architecture
A full hood of black silk lined with garnet.
(d) Degree of Doctor of Philosophy
A hood of garnet lined with silver grey.

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A hood of garnet lined with silver grey.
**SECTION THREE**

REGULATIONS GOVERNING BACHELOR DEGREES OFFERED IN THE FACULTY OF ARCHITECTURE

1. General
   These Regulations are made in accordance with the powers vested in the Council under By-law 5.2.1 and prescribe the conditions and requirements relating to the degrees of Bachelor of Science (Architecture) and Bachelor of Architecture.

2. Definitions
   In these Regulations and the Schedules thereto unless the context or subject matter otherwise indicates or requires:
   "course" means the total requirements as prescribed in the Schedule to qualify a candidate for the award of the degree;
   "Dean" means the Dean of the Faculty of Architecture;
   "department" means the department or departments offering a particular subject and includes any other body doing so;
   "Faculty Board" means the Faculty Board, Faculty of Architecture;
   "Schedule" means the schedule to these Regulations relevant to the degree only by informing the Secretary to the University in writing and the withdrawal shall take effect from the date of receipt of such notification.
   "subject" means any part of the course for which a result may be recorded.

3. Admission and Enrolment
   (1) An applicant for admission to candidature shall satisfy the requirements of the Regulations Governing Admission and Enrolment and such other additional requirements as may be specified in the Schedule.
   (2) In any year a candidate shall enrol only in those subjects approved by the Dean or his nominee.

4. Standing
   (1) The Faculty Board, on the recommendation of the Head of the Department concerned, may grant a candidate standing in specified subjects in recognition of work completed in this University or elsewhere, on such conditions as the Faculty Board may determine.
   (2) The standing granted under this Regulation shall not exceed the limit specified in the Schedule.

5. Prerequisites and Corequisites
   Except with the approval of the Dean, a candidate may not enrol in a subject unless he or she has passed any subject prescribed as its prerequisite and has already passed or concurrently enrols in or is already enrolled in any subject prescribed as its corequisite.

6. Withdrawal
   (1) A candidate may withdraw from enrolment in a subject or the degree only by informing the Secretary to the University in writing and the 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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 level</td>
<td>Architecture I</td>
</tr>
<tr>
<td>Architecture I(Part 1)* Architecture I(Part 2)*</td>
<td></td>
</tr>
<tr>
<td>Architecture I(Part 1)</td>
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</tr>
<tr>
<td>200 level</td>
<td>Architecture II</td>
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<tr>
<td>Architecture I or Architecture I or Architecture I</td>
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</tr>
<tr>
<td>Architecture I or Architecture I</td>
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<tr>
<td>300 level</td>
<td>Architecture II</td>
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<tr>
<td>Architecture II or Architecture II</td>
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<tr>
<td>Architecture II</td>
<td></td>
</tr>
<tr>
<td>400 level</td>
<td>Architecture II</td>
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<tr>
<td>Architecture II</td>
<td></td>
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<tr>
<td>Architecture II</td>
<td></td>
</tr>
</tbody>
</table>

7. Subject Requirements
   (1) To complete a subject, a candidate shall attend such lectures, tutorials, seminars, laboratory classes and field work and submit such written or other work as the Department shall require.
   (2) To pass a subject a candidate shall complete it and pass such examinations as the Faculty Board shall require.

8. Grading of Degrees
   (1) A candidate may withdraw from enrolment in a subject or the degree only by informing the Secretary to the University in writing and the withdrawal shall take effect from the date of receipt of such notification.
   (2) A degree with honours shall be conferred in one of the following grades:
      (a) Class I;
      (b) Class II.

9. Admission to Degree
   To qualify for admission to the degree a candidate shall satisfy the requirements prescribed in the Schedule.

10. Exceptional Circumstances
    In order to provide for exceptional circumstances arising in a particular case, the Senate on the recommendation of the Faculty Board may relax any provision of these Regulations.

SCHEDULE 1 - BACHELOR OF SCIENCE (ARCHITECTURE)

1. To be eligible for admission to candidature an applicant shall:
   (a) have satisfied the requirements for admission to the degree of Bachelor of Science (Architecture) in the University of Newcastle; or
   (b) have satisfied the requirements for admission to a degree in another university or qualification approved by the Faculty Board as a degree or qualification equivalent to the University's degree of Bachelor of Science (Architecture); or
   (c) in exceptional circumstances hold such academic and professional qualifications as may be approved by the Faculty Board.

2. To qualify for admission to the degree of Bachelor of Architecture a candidate shall pass a programme of subjects selected from the Appendix to this Schedule totalling 96 credit points or such greater number of credit points as may be approved by the Dean in individual cases.

3. Enrolment on a part-time basis is available only to those candidates who fulfill the conditions determined by Faculty Board.

4. A candidate may be granted standing in not more than one half of the course under the provisions of Regulation 4 of these Regulations.
4. The degree of Bachelor of Architecture may be conferred with honours.

Appendix to Schedule 2

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>400 level</td>
<td></td>
</tr>
<tr>
<td>Architecture IV</td>
<td>Architecture IV or Architecture IV (Part 2)*</td>
</tr>
<tr>
<td>Architecture IV (Part 1)*</td>
<td>Architecture IV (Part 1)</td>
</tr>
<tr>
<td>Architecture IV (Part 2)*</td>
<td>Architecture IV (Part 1)</td>
</tr>
</tbody>
</table>

500 level

<table>
<thead>
<tr>
<th>Subject</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture V</td>
<td>Architecture IV or Architecture IV (Part 2)</td>
</tr>
<tr>
<td>Architecture V (Part 1)*</td>
<td>Architecture IV or Architecture IV (Part 2)</td>
</tr>
<tr>
<td>Architecture V (Part 2)*</td>
<td>Architecture V (Part 1)</td>
</tr>
</tbody>
</table>

* Available only to students enrolled on a part-time basis.

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GENERAL INFORMATION

[General information relating to the Schools of Administration & Technology, Education, Health and Visual & Performing Arts (formerly attached to the Hunter Institute of Higher Education) may be found in Volume 10 of the University Calendar.]

Principal Dates 1990

(See superscript entry for Faculty of Medicine)

January

1. Monday  Public Holiday — New Year’s Day
5. Friday  Last day for return of Application for Re-Enrolment Form — Continuing Students
8. Monday  Deferred Examinations begin
19. Friday  Deferred Examinations end
26. Friday  Public Holiday — Australia Day
31. Wednesday  New students attend in person to enrol and pay charges

February

1. Tuesday
10. Monday  New students attend in person to enrol and pay charges
2. Saturday
13. Tuesday
15. Tuesday
18. Friday
20. Tuesday  Late enrolment session for new students
21. Wednesday  Late enrolment session for re-enrolling students
26. Monday  First Semester begins

March

23. Friday  Last day for variation of programme in relation to HECS liability for Semester I*

April

13. Friday  Good Friday — Easter Recess continues
23. Monday  Lectures resume

May

Last day for withdrawal without academic penalty from first semester subjects (See page (iv) for Dean’s discretion)

Wednesday  Public Holiday — Accepted Day

June

8. Friday  First Semester ends
11. Monday  Examinations begin
11. Monday  Public Holiday — Queen’s Birthday
29. Friday  Examinations end

Closing dates for applications for selection to the Bachelor of Science and the Diploma in Aviation Science courses in 1991

<table>
<thead>
<tr>
<th>Section</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>Exam</td>
<td>Monday 26 February, 1990</td>
</tr>
<tr>
<td>Reex</td>
<td>Friday 13 April, 1990</td>
</tr>
<tr>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>Exam</td>
<td>Monday 23 April, 1990</td>
</tr>
<tr>
<td>Reex</td>
<td>Friday 29 June, 1990</td>
</tr>
<tr>
<td>Semester 3</td>
<td></td>
</tr>
<tr>
<td>Exam</td>
<td>Monday 16 July, 1990</td>
</tr>
<tr>
<td>Reex</td>
<td>Monday 24 Sept., 1990</td>
</tr>
</tbody>
</table>

* Date yet to be finalised

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DATES FOR THE 1990 ACADEMIC YEAR FOR THE BACHELOR OF MEDICINE PROGRAMME

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam</td>
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<td>Reex</td>
<td>Monday 24 Sept., 1990</td>
</tr>
</tbody>
</table>

* Date yet to be finalised
ADVICE AND INFORMATION

Examinations commence Monday 5 November, 1990
conclude Friday 16 November, 1990
Mini-Examinations commence Monday 19 November, 1990
concludes Friday 30 November, 1990
note: Semester One consists of Block One (10 weeks) and 7 weeks of Block Two.
Semester Two consists of the remaining 9 weeks of Block Two and all of Block Three (10 weeks).

Year Two

Semester One commences Monday 26 February, 1990
recesses Friday 13 April, 1990
recommences Monday 23 April, 1990
concludes Friday 29 June, 1990
Semester Two commences Monday 16 July, 1990
recesses Monday 24 Sept., 1990
recommences Friday 5 October, 1990
concludes Friday 26 October, 1990
Examinations commence Monday 5 November, 1990
concludes Friday 30 November, 1990
Mini-Examinations commence Monday 19 November, 1990
concludes Friday 30 November, 1990
note: Semester One consists of Block Four (10 weeks) and 7 weeks of Block Five.
Semester Two consists of the remaining 9 weeks of Block Five and all of Block Six (10 weeks).

Year Three

Block 7 Feb 12 - May 4 12 weeks 11 week term 1 week AVCC/Exeter Vacation 13/4-20/4
Block 8 May 7 - June 29 6 weeks
Vacation July 2 - July 13 2 weeks (AVCC common week)
Block 9 June 17 - Sept. 14 9 weeks 8 week term 1 week review 10/9-14/9
Stavex Sept. 17 - Sept 21 1 week
Assessment Sept. 24 - Oct. 12 3 weeks
Vacation Oct. 15 - Oct. 19 1 week
Examinations Oct. 22 - Dec. 14 8 weeks
Year Four

Clinical Attachment 1a Feb 5 - Mar 16 6 weeks
Clinical Attachment 1b Mar 19 - May 4 6 weeks 1 week AVCC/Exeter Vacation 13/4-20/4
Clinical Attachment 2a May 7 - June 22 6 weeks
Clinical Attachment 2b June 25 - Aug. 3 6 weeks
Clinical Attachment 3a Aug. 30 - Sept. 28 6 weeks
Clinical Attachment 3b Oct. 1 - Nov. 9 6 weeks
GP Period Nov 12 - Nov. 21 One and a half weeks (General Practitioners placement)
Stavex Nov. 22 - Nov. 30 One and a half weeks
Assessment Dec. 3 - Dec. 7 1 week

Note: Years 3, 4 & 5 do not conform with the University of Newcastle's Semester dates.

Year Five

GP Attachment Feb 5 - Feb 16 2 weeks
Clinical Attachment 1 Feb 19 - Mar 23 5 weeks
Clinical Attachment 2 Mar 26 - Apr 27 5 weeks ( Easter 13/4-17/4)
Clinical Attachment 3 Apr 30 - June 1 5 weeks
Assessment June 4 - June 8 1 week
Vacation June 11 - June 15 1 week
Clinical Attachment 4 June 18 - July 20 5 weeks
Clinical Attachment 5 July 23 - Aug 24 5 weeks
Stavex Aug 27 - Aug 31 1 week
Assessment Sept 3 - Sept 14 2 weeks
2nd Assessment Sept 17 - Sept 21 1 week
Elective Sept 24 - Nov 16 8 weeks
Final Assessment Nov 19 - Nov 23 1 week

Advice and Information

Advice and information on matters concerning the Faculties of the University can be obtained from a number of people.

Faculty Secretaries
For general enquiries about University regulations, Faculty rules and policies, studies within the University and so on, students may contact:

Faculty Secretary Phone
Arts Mrs Dianne Rigney 685634
Economics & Commerce Mrs Linda Harrigan 685695
Education Mr Peter Day 685417
Engineering Mr Geoff Gordon 685630
- Dr Jill Norburn 685630
- Brian Kelly 685613
Science & Mathematics Ms Helen Hotchkiss 685330

For enquiries regarding particular studies within a faculty or department Sub-deans, Deans or Departmental Heads (see staff section) should be contacted.

Cashier's office 1st Floor McMullin Building.
Hours 10 am - 4 pm
Accommodation Officer Mrs Kath Dacey, phone 685520
located in the temporary buildings opposite Mathematics.
Careers and Student Employment Ms Helen Parker, phone 685466
located in the temporary buildings opposite Mathematics.
Counselling Service phone 685255
located in the courtyard level Library building.
Health Service phone 685763
located in the temporary buildings opposite Mathematics.
Student Loans phone 685601
located in Student Administration, McMullin Building.

ADVICE AND INFORMATION

STUDENTS WITH SPECIAL NEEDS
The University of Newcastle has a policy to provide equal opportunity to students with Special Needs.

If you have a disability of any form and feel you need some additional assistance, please do not hesitate to contact one of the following:

Faculty Advisers
Arts Mr Malcolm Park - ext 529
Economics & Commerce Mr Bruce Cheek (Sub Dean) - ext 697
Education Dr Bill Warren - ext 271
Engineering Mr David Wood - ext 431
Medicine Mr Stuart Greff - 266170
Science & Mathematics Ass.Prof Warren Bradley - ext 678
Student Administration Mrs Sandra Box - ext 303
Assessment Kit Mrs Lyn McIntyre - ext 298
Ms Anne Robinson - ext 252
Student Representative Counsel Mr Steve Watkins - ext 329

ENROLMENT OF NEW STUDENTS
Persons offered enrolment are required to attend in person at the Great Hall early in February to enrol and pay charges. Detailed instructions are given in the Offer of Enrolment.

TRANSFER OF ENROLMENT
Students currently enrolled in an undergraduate Bachelor degree course who wish to transfer to a different undergraduate Bachelor degree course (excluding Medicine) must complete an Application for Course Transfer form and lodge it with their Application for Re-enrolment at the Student Administration Office by 5 January 1990.

If a student's request to transfer to another course is successful, the student must complete a separate Higher Education Contribution Scheme (HECS) Payment Options form for the new course.

RE-ENROLMENT BY CONTINUING STUDENTS
There are four steps involved for re-enrolment by continuing students:
- collection of the re-enrolment kit
- lodging the Application for Re-enrolment form with details of your proposed programme
- attendance at the Great Hall for enrolment approval, and
- payment of the General Service Charge.

(Students who are in research higher degree programmes re-enrol and pay charges by mail.)

Re-Enrolment Kit
Re-enrolment kits for 1990 will be available for collection in October.

There-re-enrolment contains the student's Application for Re-enrolment form, the 1990 Class Timetable, the Statement of Charges Payable for 1990 and re-enrolment instructions.

Lodging Application for Re-Enrolment Forms
The Application for Re-enrolment form must be completed carefully and lodged at the Student Administration Office by 5 January 1990. Students should know their examination results before completing the re-enrolment form. There is no late charge payable if the form is late, but it is very important that the Application for Re-enrolment form is lodged by 5 January 1990 at latest lodgement which will mean that enrolment approval will not be possible before the late re-enrolment session.

Enrolment Approval
All re-enrolling students (except those enrolled in the BMed) are required to attend at the Great Hall on a specific date and time during the period 13-16 February 1990. Enrolment Approval dates are on posters on University Noticeboards and are included in the enrolment kit issued to students in December. When attending for Enrolment Approval students will collect their approved 1990 programme and student card.

Any variations to the proposed programme require approval. Enrolments in tutorial or laboratory sessions will be arranged. Staff from academic departments will be available to answer enquiries.

30 A service charge of $20 will be imposed on students who re-enrol after the specified date.

Payment of Charges
Three-re-enrolment kits issued to re-enrolling students includes a Statement of Charges Payable form which must accompany the payment of charges for 1990. These charges may be paid at any time after receiving the re-enrolment kit.

All charges, including debts outstanding to the University, must be paid before or on re-enrolment — partial payment of total amount due will not be accepted by the cashier.

Payment by mail is encouraged, alternatively by cheque or money order lodged in the internal mail deposit boxes outside the Cashier's Office in the McMullin Building. The receipt will be mailed to the student.

Payment by cash at the Cashier's Office may lead to queues at enrolment time.

The Cashier's Office will be open for extended hours during the enrolment approval sessions in the period 13-16 February 1990. Afterwards any further payment should be by mail only.

LATE PAYMENT
Payment of the General Services Charge is due before or upon re-enrolment. The amount due for payment is the date of the Re-enrolment Approval session for the course concerned in the period 13-16 February 1990, after which a late charge applies at the rate of:
- $10 if payment is received up to and including 7 days after the due date;
- $20 if payment is received between 8 and 14 days after the due date; or
- $30 if payment is received 15 or more days after the due date.

Thereafter enrolment will be cancelled if charges remain unpaid by 30 March.

STUDENT CARDS
When attending for Enrolment Approval, students will be given their Approved Programme form which incorporates the Student Card. The Student Card should be carried by students when at the University as evidence of enrolment. The Student Card has machine-readable encoding for use when borrowing books from the University Library, and contains the student's interim password for access to the facilities of the Computing Centre.

Students are urged to take good care of their Student Card. If the card is lost or destroyed, there is a service charge of $5 payable before the card will be replaced.

A student who withdraws completely from studies should return the Student Card to the Student Administration Office.

RE-ADMISSION AFTER ABSENCE
A person wishing to resume an undergraduate degree course who has been enrolled previously at the University of Newcastle, but not enrolled in 1989, is required to apply for admission again through the Universities and Colleges Admissions Centre, Locked Bag 500 Lidcombe 2141. Application forms may be obtained from the UCAC or from the Student Administration Office and close with the UCAC on 29 September each year.

There is a $150 fee for late applications.
CONFIRMATION OF ENROLMENT
Students should ensure that all details on their Approved Programme form are correct. Failure to check this information could create problems at examination time.

FAILURE TO PAY OVERTUE DEBTS
Any student who is indebted to the University by reason of non-payment of any fee or charge, non-payment of any fine imposed, or who has failed to pay any overdue debts shall not be permitted to:
(a) complete enrolment in a following year;
(b) receive a transcript of academic record;
(c) graduate or be awarded a Diploma,
unless such debts are paid.

CHANGE OF ADDRESS
Students are responsible for notifying the Student Administration Office in writing of any change in their address. A Change of Address form should be completed and is available from the Student Administration Office. Failure to notify changes could lead to important correspondence or record being missed.

STUDENTS MAY GENERALLY
Failure to notify changes could lead to important correspondence or record being missed.

WITHDRAWAL
Application to withdraw from a subject should be made on the Variation of Programme section on the reverse side of your Approved Programme form. Reasons for changes and where appropriate documentary evidence in the form of medical or other appropriate certificates must be submitted.

AT ATTENDANCE AT CLASSES
Where a student's attendance or progress has not been satisfactory, action may be taken under the Regulations Governing Unsatisfactory Progress.

In the case of illness or absence for some other unavoidable cause, a student may be excused for non-attendance at classes.

All applications for exemption from attendance at classes must be made in writing to the Head of the Department offering the subject. Where tests or term examinations have been missed, this fact should be noted in the application.

Rules for exemption from attendance at classes do not carry with it any waiver of the General Services Charge.

GENERAL CONDUCT
In accepting membership of the University, students undertake to observe the by-laws and other requirements of the University.

Students are expected to conduct themselves at all times in a gentlemanly fashion. Smoking is not permitted in lecture rooms, examination rooms or in the University Library, Gambia Hall or other University facilities.

Members of the academic staff of the University, senior administrative officers, and other persons authorised for the purpose here have authority to give a student a warning or improper conduct occurring in the University.

NOTICES
Official University notices are displayed on the notice boards and students are expected to be acquainted with the contents of these announcements which concern them.

A notice board on the wall opposite the entrance to Lecture Theatre B is used for the specific purpose of displaying examination time-tables and other notices prior to examinations.

STUDENT MATTERS GENERALLY
The main notice board is the display point for notices concerning enrolment matters, scholarships, University rules and travel concessions, etc. This notice board is located in the main lobby between the Union and the Library.

Examinations
Tests and assessments may be held in any subject in the year. In those cases where a student's progress in university course, consideration will be given to laboratory work, tutorials and assignments and to any term or other tests conducted throughout the year. The results of such assessments and class work may be incorporated with those of formal written examinations.

EXAMINATION PERIODS
Formal written examinations take place on prescribed dates within the following periods:
Mid-Year: 11 to 29 June, 1990
End of Year: 5 to 23 November, 1990

Timetables showing the time and place at which individual examinations will be held will be posted on the examinations notice board near Lecture Theatre B (opposite the Great Hall).

Sitting of the timetable will not affect any circumstances be accepted as an excuse for failure to attend an examination.

SITTING FOR EXAMINATIONS
Formal examinations, where prescribed, are compulsory. Students should consult the final timetable in advance to find the date, time and place of their examinations and should allow themselves plenty of time to get to the examination room so that they can take advantage of the 10 minutes reading time that is allowed before the examination commences.

The usual allocation list for examinations will be posted on the notice board of the Department running the subject, and on a notice board outside the examination room.

Students can take into any examination any writing instrument, drawing instrument or eraser. Logarithmic tables may not be taken in.

Any infringement of these rules constitutes an offence against discipline.

EXAMINATION RESULTS
End of year examination results will be available for collection from the Drama Studio in December. The dates for collection will be put on noticeboards outside the main examination rooms in November. Results not collected will be mailed. Examination results for Semester I subjects will be mailed out by the Friday before Semester II begins.

No results will be given by telephone.

After the release of both Semester I and end of year examination results a student shall apply in a change of result review. There is a charge per subject, which is refundable in the event of an error being discovered. However, it should be noted that examination results are released only after careful assessment of students' performances and that, amongst other things, marginal failures are reviewed before results are released.

SPECIAL CONSIDERATION
All applications for special consideration must be made on the Application for Special Consideration form. Relevant evidence should be attached to the application (see Regulation 12(2) of the Examination Regulations, Calendar Volume 1). Also refer to Faculty Policy.

Application forms for Special Consideration are available from the Student Administration Office and the University Health Service. Before a student’s application for special consideration will be considered the student must attend an examination on a particular day or could not attend the examination on a particular day or could be granted.

(a) to a student who is prevented from 'bringing into a room a programmable calculator;
(b) to a student who uses a calculator incorrectly;
(c) because of battery failure.

RULES FOR FORMAL EXAMINATIONS
Regulation 15 of the Examination Regulations sets the rules for formal examinations, as follows:
(a) candidates shall comply with any instructions given by a supervisor relating to the conduct of the examination;
(b) before the examination begins candidates shall not read the examination paper until granted permission by the supervisor who shall ensure that the performance of the applicant would be affected by the disability. If the period of disability extends beyond one day the period should be stated.
(c) no candidate shall enter the examination room for thirty minutes from the time the examination has begun;
Students who become liable for action under the Regulations will be informed accordingly by mail after the release of the End of Year examination results and will be informed of the procedure to be followed if they wish to 'show cause' against the decision.

Appeals against exclusion must be lodged together with Application for Re-enrolment forms by Friday 6 January 1989.

The Faculty's progress requirements are set out elsewhere in this volume.

REGULATIONS GOVERNING UNSATISFACTORY PROGRESS

1.1 These Regulations are made in accordance with the powers vested in the Council, and in pursuance of By-law 2.3.5 of the University of Newcastle, as constituted under By-law 2.3.5.

"Dean" means the Dean of a Faculty in which a student is enrolled.

"Faculty Board" means the Faculty Board of a Faculty in which a student is enrolled.

2.1 A student's enrolment in a subject may be terminated by the Head of the Department offering that subject if the student does not maintain a satisfactory standard of performance. The Head of Department, in determining whether a student is failing to maintain satisfactory progress the Head of Department may take into consideration such factors as:

(a) unsatisfactory attendance at lectures, tutorials, seminars, laboratory classes or field work;
(b) failure to complete laboratory work;
(c) failure to complete written work or other assignments; and
(d) failure to complete field work.

2.2 The enrolment of a student in a subject shall not be terminated pursuant to regulation 2.1 unless such consideration has been given prior written notice of the intention to consider the matter with brief particulars of the grounds for the notice and has also been given a reasonable opportunity to make representations either in person or in writing or both.

3.1 A student whose enrolment in a subject is terminated under regulation 2.1 of these Regulations may appeal to the Faculty Board which shall determine the matter.

4.1 A student whose enrolment in a subject is terminated under regulation 2.1 of these Regulations shall be made within fourteen (14) days from the date of posting to the student of the notification of the decision or such further period as the Admissions Committee may accept.

5.1 An appeal made by a student to the Admissions Committee pursuant to Regulation 3 of these Regulations shall be in such form as may be prescribed by the Admissions Committee and shall be within the period of fourteen (14) days from the date of posting to the student of the notification of the decision or such further period as the Admissions Committee may accept.

5.2 In hearing an appeal the Admissions Committee may take into consideration any circumstances whatever including matters not previously raised and may seek such information as it thinks fit concerning the academic performance and the making of the determination by the Faculty Board. Neither the Dean nor the Sub-Dean shall act as a member of the Admissions Committee together with a recommendation for such action as the Faculty Board considers appropriate.

5.3 The appellant and the Dean or the Dean's nominee shall have the right to be heard in person by the Admissions Committee.

6.1 The Admissions Committee shall consider any case referred to it by a Faculty Board or which is subject to the determination of the Admissions Committee and shall have regard to:

(a) the student's attendance at lectures, tutorials, seminars, laboratory classes or field work;
(b) the student's performance in the subject or other subjects, courses, or Faculties as it thinks fit; or
(c) the student's attendance at the University.

6.2 The Committee shall not make any decision pursuant to regulation 6 (1) (b) or (c) of these Regulations unless it has first given to the student the opportunity to be heard in person by the Committee.

3.1 A student may appeal to the Vice-Chancellor against any decision made by the Admissions Committee under this Regulation.

7. Where there is an appeal against any decision of the Admissions Committee made under Regulation 6 of these Regulations, the Vice-Chancellor may refer the matter back to the Admissions Committee with a recommendation or shall arrange for the appeal to be heard by the Council. The Council may confirm the decision of the Admissions Committee or may substitute for it any other decision which the Council considers appropriate.

8.1 A student who has been excluded from further enrolment in a Faculty may enrol in a course in another Faculty only with the permission of the Faculty Board of that Faculty and on such conditions as it may determine after considering any advice from the Dean of the Faculty from which the student was excluded.

8.2 A student who has been excluded from further enrolment in a Faculty or from the University under these Regulations may apply for permission to enrol therein again provided that in no case shall such re-enrolment commence before the expiration of two academic years from the date of the exclusion. A decision on such application shall be made:

(a) by the Faculty Board, where the student has been excluded from a single course or a single Faculty;
(b) by the Admissions Committee, in any other case.

9.1 A student whose application to enrol pursuant to Regulation 8 (1) (a) or (b) or (c) of these Regulations is rejected by a Faculty Board may appeal to the Admissions Committee.

9.2 A student whose application to enrol pursuant to Regulation 8 (2) (b) of these Regulations is rejected by the Admissions Committee may appeal to the Vice-Chancellor.

Charges

The General Services Charge (details below) is payable by all students. Non-Degree Students are not required to pay all charges when they attend to enrol.

Re-enrolling students receive October each year, as part of their re-enrolment kit, a statement of charges payable. Students are expected to pay the charge in full, or on enrolment. Students may pay by the due date, or may appeal to the Vice-Chancellor.

The exact amount must be paid in full by the prescribed date.

2. Late Charges

Where the Statement of Charges payable form is lodged with all charges payable due after the due date:

(a) if received up to and including 7 days after the due date; $10

(b) if received between 8 and 14 days after the due date; $20

(c) if received 15 or more days after the due date $30

3. Other Charges

(a) Examination under special supervision $15

(b) Review of examination results $20

(c) Statement of matriculation status for non-members of the University $8
SECTION FOUR

FACULTY POLICIES

Faculty Board policies of special interest to students are as follows:

Criteria for the Award of the Degree with Merit and Honours

Merit and Honours awards are based on grade point averages for the subjects undertaken in the relevant degree. The grade points gained by subject results are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Distinction</td>
<td>4 points</td>
</tr>
<tr>
<td>Distinction</td>
<td>3 points</td>
</tr>
<tr>
<td>Credit</td>
<td>2 points</td>
</tr>
<tr>
<td>Pass</td>
<td>1 point</td>
</tr>
<tr>
<td>Fail</td>
<td>0</td>
</tr>
</tbody>
</table>

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

(i) a candidate’s grade point average for the subjects comprising the Bachelor of Science (Architecture) degree shall be not less than 2.0;

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

(iii) a candidate shall obtain not less than a Distinction in the final subject.

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

(i) a candidate’s grade point average for the subjects comprising the Bachelor of Architecture degree shall be not less than 2.0;

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

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

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 Regulation 2 of the Regulations Governing Unsatisfactory Progress, may terminate the student’s enrolment in the subject.

Annual Review

Under Regulation 3 of the Regulations 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:

(i) the student shall submit a written statement of their reasons for the unsatisfactory performance;

(ii) the student shall present a plan for improvement to the Faculty Board;

(iii) the student shall undergo additional examinations or assignments to demonstrate their progress; and

(iv) if the student’s performance improves to a satisfactory level, the Faculty Board may reinstate the student to the subject.

The Traffic and Parking Regulations are stated in full in the Calendar, Volume I.
1. A student shall be considered to have failed to maintain a satisfactory rate of progress if, inter alia:
   (a) he or she fails Architecture I in the Bachelor of Science (Architecture) degree or Architecture IV or Architecture V (Part 1) in the Bachelor of Architecture degree course at the first attempt; or
   (b) he or she fails the same subject on more than one occasion.

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 Sub-Dean of the Faculty and the Head of the Department of Architecture, which may determine, under Regulation 3(1) of the Regulations 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; or
      (ii) in the course and any other course offered in the Faculty; or
      (iii) in the Faculty; or
   (d) that the case be referred to the Admissions 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 programme 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 programme under the following conditions:

- It must be undertaken in the office of an architect or related 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 arrangement 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 seminar 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
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 programme. This year will be recognized 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 (Architectural) 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 programme.

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 8-12 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)

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

COURSE DESCRIPTION

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 of study of an uninterrupted full-time programme 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, modelling, photography, video and verbal and written communication;
  - computer applications.
- User Studies:
  - concerns for the people who commission and use buildings;
  - professional practice, law and ethics;
  - project management and business management for the architect.
- Implementation Studies:
  - concerning the implementation of the building project and issues of:
    - the profession;
    - environmental control;
    - cost planning and specifications.
- Cultural Studies:
  - concerning the cultural context of the programme;
  - history of architecture;
  - theory 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.
- Landscape Studies:
  - concerning the implementation of the building project and issues of:
    - 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.

Credit Points

Credit Points values associated with each subject will be shown to the right of the subject heading and will be 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 1

PROBLEM-BASED EXERCISES

The overall theme and focus of the Architecture 1 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 programme;
- 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;
- 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 1 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;
- 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 cultural history;
- architectural communication, including letterwriting, report writing, drawing, model making, photography, video;
- introduction to production drawing;
- measured drawing of a simple structure.

Cultural Studies:
- forms of settlement and building in the Hunter Valley having regard to factors of history, climate and geography, and the impact of technological developments in Europe and America;
- the functional tradition in western architecture, from 1800 to the present;
- the strengths and limitations of the functionalist philosophy in modern architecture.

Design Studies:
- design solutions for relatively clearly defined needs and activities, up to a level of complexity of about 10 discrete functional spaces on 3 physical levels;
- introduction to design processes;
- architectural design theory;
- elements of architecture.

Technical Studies:
- light, small-scale framed structures in timber;
- introduction to basic structural types;
- concepts of dead, live and wind loadings, 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 channelling and linings;
- simple joistery components and fixatures;
- materials for simple buildings and an understanding of how those materials behave from a technical, economical and environmental viewpoint;
- wiring and piped services systems for a small building;
- relationships between buildings and a rural 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.

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 1 (PART 2)

This subject covers the content of the first half of Architecture 1. 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.

ARCH210 ARCHITECTURE II

This 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. The framing and load-bearing low-rise structures with high performance envelopes. The design problems considered include:

- the design of a compact living/work unit;
- the design of an individual family house on a steep site, on a number of levels;
- 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, such as a primary school;
- the detailed design of specialised areas within the communal facilities, such as a classroom.

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;
ARCH310 ARCHITECTURE III

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 of public, institutional clients and of a much wider diversity of users. Strategies for the organisation of hierarchies of space, and of circulation of large numbers of people, must be considered. The complexity of the design problems is increased not only by the number and interrelationships of the spaces involved, but also by the specialist functions, for performance, display and assembly. These entail further study of acoustics and of the design of natural and artificial lighting conditions. Constructional and structural concepts and methods appropriate to the building types are studied, as are the more onerous requirements for communication with other members of the building team through drawings and specifications, for cost control and for the overall management of the project. The building problems studied in Architecture III also provide the opportunity for the study of a wide range of historical models, both from Australia and overseas, and of the formal and cultural issues they present.

STUDY AREAS

The study area topics for Architecture III cover the following:

**Professionals 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 systems in the building industry;
- computer programs for technical and design evaluations;
- computers for draughting and design.

**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;
- translation of historical European models to the Australian context;
- individual study of selected historical examples;
- concepts of symbolism, formality and order in public architecture.

**Design Studies:**
- design solutions for complex buildings, with requirements for public circulation for large numbers of people on many levels;
- design solutions for specialised spaces for public assembly, performance or display;
- conceptual and detailed design processes;
- architectural design theory;
- 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 single structural elements using concrete and steel;
- frame and floor systems;
- concepts of joint design;
- architectural implications of steel and concrete construction for medium sized public buildings;
- site and investigation and foundation design;
- construction design and detailing of frame systems, basements, floors, walls, roofs, claddings, internal elements and finishes;
- selection and performance of materials and components;
- 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;
- types of specifications, and legal and technical considerations;
- 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.

ARCH311 ARCHITECTURE III (PART 1) 24 cp

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.
ARCH411 ARCHITECTURE IV (PART 1) 32 cp
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.

ARCH412 ARCHITECTURE IV (PART 2) 16 cp
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.

ARCH510 ARCHITECTURE V 48 cp
PROBLEM-BASED EXERCISES
In the final year of study, students are able to select a major architectural design problem as the basis for their programme 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 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 addition to the work undertaken in all of the above study areas, each student will carry out a study in anyone of these areas by choice, to a greater depth. This Research Study may be a continuation of the elective topic undertaken in Architecture IV.

ARCH511 ARCHITECTURE V (PART 1) 16 cp
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.

ARCH512 ARCHITECTURE V (PART 2) 32 cp
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.
REGULATIONS GOVERNING THE DEGREE OF MASTER OF ARCHITECTURE

Part I — General

1. (1) These Regulations prescribe the conditions and requirements relating to the degrees of Master of Architecture, Master of Arts, Master of Commerce, Master of Education, Master of Educational Studies, Master of Engineering, Master of Engineering Science, Master of Mathematics, Master of Psychology (Clinical), Master of Psychology (Educational), Master of Science, Master of Medical Science, Master of Scientific Studies, Master of Special Education and Master of Surveying.

(2) In these Regulations 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;

"programme" means the programme of research and study prescribed in the Schedule;

"Schedule" means the Schedule of these Regulations pertaining to the course in which a person is enrolled or is proposing to enrol;

"thesis" means any thesis or dissertation submitted by a candidate.

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 specified in the Schedule; and

(b) 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. (1) 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 Schedule otherwise provides.

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

5. The programme 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; or

(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 programme 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 half of the academic year, the last Monday of first term;

(b) in the case of a subject offered in the second half of the academic year, the Fourth Monday of third term;

(c) in the case of any other subject, the last Monday of second term.

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.

(2) For the purpose of assessing a candidate’s progress, the Faculty Board may require any 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 Theses

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

(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 the date he expects 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 programme 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
SECTION SIX

University shall be free to allow the thesis to be consulted or borrowed and, subject to the provisions of the Copyright Act, 1968 (Com), 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 described in the Schedule.

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

SCHEDULE 1 — MASTER OF ARCHITECTURE

1. The Faculty of Architecture shall be responsible for the course leading to the degree of Master 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 Faculty Board.

(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 Faculty Board a programme consisting of:

   (a) such work and examinations as may be prescribed by the Faculty Board; and
   (b) a thesis embodying the results of an original investigation or design.

4. The programme 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 Faculty Board to be equivalent or who has had previous research experience, the Faculty Board may reduce this period to not less than one academic year, and
   (b) except with the permission of the Faculty Board, not more than 5 years.

SECTION SEVEN

SUBJECT COMPUTER NUMBERS

BACHELOR OF SCIENCE (ARCHITECTURE)
The subjects selected should be written on the enrolment form in the following manner.

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