

CALENDAR
OF
THE UNIVERSITY OF ADELAIDE
FOR THE YEAR
1981

VOLUME II
DETAILS OF COURSES

ADELAIDE:
GRIFFIN PRESS LIMITED, MARION ROAD, NETLEY
1981

ADDRESS FOR CORRESPONDENCE

Correspondence should be addressed as follows:

About courses (and related matters such as admission, examinations, scholarships and prizes), educational matters generally; and other matters, including staff appointments of all kinds: *to*

The Registrar.

About financial matters, and matters relating to the buildings and grounds: *to*

The Bursar.

Address:

The University's postal address is:

The University of Adelaide,
Box 498 G.P.O.,
ADELAIDE,
South Australia 5001.

The University's telephone number is 223 4333 (Area code: 08); and the Telex number is UNIVAD AA89141.

FOREWORD

The Calendar of the University is published annually in three Volumes, as follows:

VOLUME I

General information, including—

- The University Act
- Staff
- Statutes
- Standing Orders of the Senate
- The Elder Conservatorium of Music
- Institutions, Foundations and Colleges of the University
- Public Lectures and Courses
- Service Departments and Divisions of the University
- Scholarships and Prizes
- Societies Associated with the University

VOLUME II

“*Details of Courses*”, being—

- Information for Students of the University
- Regulations, Schedules and Syllabuses of degree and diploma courses
- Rules
- Timetables
- Tables of Subjects

VOLUME III

Annual Report, including Financial Statements

A Bibliography of publications by members of staff of the University is published separately.

These Volumes are normally published as follows:

VOLUME I: In May: price \$2.

VOLUME II: In December of previous year: price \$1.

VOLUME III: In August: price \$1.

Postage extra.



THE ARMS OF THE UNIVERSITY

The heraldic description of the Coat of Arms is as follows:

Per pale Or and Argent an Open Book
proper edged Gold on a Chief Azure
five Mullets, one of eight, two of
seven, one of six and one of five
points of the second, representing
the Constellation of the Southern
Cross;

and the Motto associated with the Arms is-

Sub cruce lumen

"The light (of learning) under the (Southern) Cross"

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INFORMATION FOR STUDENTS OF THE UNIVERSITY

(This section of the Calendar includes much valuable information which will be useful to students throughout the year. All students are asked to read it carefully, and refer to it as required.)

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Note:

It is provided by statute that "In any statute or regulation unless there is something in the context repugnant to such construction words importing the masculine gender or singular number shall be construed to include the feminine and plural respectively and *vice versa*."

In this section, unless the wording clearly indicates otherwise, the masculine includes the feminine and the singular the plural.

1. Responsibilities

It is every student's responsibility to know and to comply with the University statutes, regulations, by-laws, rules and instructions in so far as they concern him and his course of study. They are all to be found in the University Calendar (Volumes I and II), and in the relevant official leaflets. Students are advised to look at the notice boards, which are to be found in every major building, as often as possible.

2. University government

The Council and Senate

The governing body of the University is the Council, which under section 9 of the University Act "shall have the entire management and superintendence of the affairs" of the University, subject to the Act and the statutes and regulations of the University.

The Council comprises 35 members including the Chancellor and Vice-Chancellor, *ex officio*; 8 members of the academic staff, 1 member of the ancillary staff, 1 member of staff other than academic or ancillary, 1 postgraduate student and 13 persons not employed by the University, all these 24 being elected by the Convocation of Electors (comprising all graduates and postgraduate students of the University and all full-time staff); 4 members elected by the undergraduates; and 5 members of Parliament elected by the Parliament of South Australia.

The Council operates through a system of committees, and with the help of its executive and administrative officers. The two principal committees which advise it are the Education Committee and the Finance Committee.

The Senate, which normally meets each year in November, must approve all statutes and regulations and amendments thereto before they may be allowed by the Governor in Executive Council. The Senate consists of all graduates of the University, all employees of the University who are graduates of this or other universities, and all postgraduate students.

Committees, faculties and boards

In the academic area, the committees which from the students' point of view are the most important are the eleven faculties and three boards of studies, which control the degree and diploma courses. Subject to the approval of the Council on advice from the Education Committee, the faculties and boards of studies are responsible for the structure, scope and content of University courses. The Finance Committee, as its name implies, is concerned with the financial aspects of University government. There are over 50 committees, faculties and boards which report to the Council.

Statutes, regulations, rules and by-laws

Statutes, regulations, rules and by-laws are made by the Council under the authority of the University Act.

For every degree and diploma course **regulations** are made which give authority for that course. Changes in these regulations require the approval of the Education Committee, the University Council, the Senate, and the Governor in Executive Council. Details, such as subjects available and the structure of the course, are set out in **schedules** made by the Council under the authority of the regulations. The schedules are published immediately after the regulations; they are followed by the **syllabuses** for each of the subjects concerned together with the prescribed text-books. The **statutes**, which are published in Volume I of the Calendar, govern matters other than degree or diploma courses. They require approval in the same manner as the regulations. The University **by-laws**, for contravention of which penalties are laid down, govern such matters as trespass, parking and traffic, disorderly behaviour, etc., and are made by the Council and allowed by the Governor in Executive Council under the authority of the University Act. They are published in Volume I, after the University Act. **Rules** are made by the Council to govern such matters as the library, laboratories and lecture rooms, the conduct of examinations, and so on. They are published towards the end of this volume.

The Administration

The Vice-Chancellor is the chief executive officer of the University and head of the Central Administration. The central administration is organised in two Offices headed respectively by the Registrar, and the Bursar, each of whom is directly responsible to the Vice-Chancellor. Insofar as matters relating to their courses are concerned, students will be interested most in the general administration of the University as distinct from the financial (responsibility of the Bursar).

3. Principal dates, 1981

| | | |
|--------|-------------|--|
| Thurs. | 1 January | New Year's Day. |
| Mon. | 26 January | Public Holiday: Celebration of Australia Day. |
| Tues. | 27 January | Clinical Year begins. |
| Mon. | 9 February | Enrolments begin. <i>NOTE:</i> Particulars of the procedures for enrolment may be found in the enrolment leaflet available in January. |
| Mon. | 2 March | FIRST TERM BEGINS. Orientation week begins. <i>NOTE:</i> Students are required to attend such preliminary meetings of classes in the first week of term as may be announced. Details will be on notice boards from 23 February. |
| Mon. | 9 March | Lectures begin. |
| Fri. | 17 April | Good Friday. |
| Mon. | 20 April | Easter Monday. |
| Sat. | 25 April | Anzac Day. |
| Wed. | 29 April | Annual Commemoration: First and Second Ceremonies. |
| Wed. | 6 May | Annual Commemoration: Third and Fourth Ceremonies. |
| Sat. | 9 May | First term lectures end. |
| Mon. | 18 May | Adelaide Cup Day. |
| Mon. | 25 May | Examinations week begins. <i>NOTE:</i> Examinations may commence on Friday, 22 May. |
| Mon. | 8 June | SECOND TERM BEGINS. |
| Mon. | 15 June | Queen's Birthday. |
| Wed. | 1 July | Entry for annual examinations may be lodged after this date. Entry as early as possible is desirable. |
| Sat. | 8 August | Second term lectures end. Last day of entry for annual examinations. Last day for students to withdraw from a subject without the withdrawal counting as a failure. |
| Mon. | 17 August | Examinations week begins. <i>NOTE:</i> Examinations may commence on Friday, 14 August. |
| Mon. | 31 August | THIRD TERM BEGINS. |
| Mon. | 12 October | Labour Day. |
| Sat. | 31 October | All lectures end. |
| Mon. | 9 November | Annual examinations, in general, begin. |
| Sat. | 12 December | Third term ends. |
| Fri. | 25 December | Christmas Day. |
| Mon. | 28 December | Proclamation Day. |

4. Fees and charges

(a) General

No student, except a student taking a course in the Department of Continuing Education or a student of the Elder Conservatorium undertaking studies not forming part of a Music degree course, is required to pay any tuition or associated fee.

Every student is, however, required to pay the prescribed Statutory fees [see (b) below]; and he may also, in some circumstances, incur a liability to pay certain University charges [see (c) below]. In some subjects attendance at excursions or camps forms a compulsory part of the practical work and certain costs are thereby incurred [see (d) below].

(b) Statutory fees*

Payment of the prescribed Statutory fees is compulsory for every student. Every student enrolled at the University must, unless exempted by the University Council from paying all or part of such fee, pay:

- (i) an Entrance Fee of \$20 in March of the first year of enrolment; AND
- (ii) an Annual Fee of \$140 for a student attempting 76–100% workload; \$105 for 51–75% workload; \$70 for 26–50% workload; or \$35 for 1–25% workload. Students enrolled for higher degrees pay *either* \$140 (full-time) *or* \$70 (part-time). An external student is not required to pay a Statutory fee. Full-time clinical-year medical students (in 4th, 5th and 6th years), and full-time agricultural science students enrolled in 3rd and 4th years or for honours or higher degrees, pay \$70.

(In this context, a student's workload is as calculated by the University according to the subjects or other work for which the student is enrolled in the first term.)

All fees should be paid in March of each year.

A late payment charge for overdue fees will be made. The late charge will be applied at the rate of \$2 a month and will fall due on the first day of the month following the month in which the Annual Fee, or any agreed part thereof, falls due, until and including 1 December of each year. The maximum total late charge applicable to each fee will be \$18.

All students who arrange for deferment of payment of the Statutory fees will be exempt from the late charge for the period of deferment. Enquiries concerning deferment of payment should be directed to the Welfare Co-ordinator, in the Union.

Payment of the Statutory fees entitles students to be members of the Adelaide University Union (the Club to which all members of the University may belong) with the use of the Union buildings, facilities and services. Membership also entitles students and staff to take full part in the activities of the Students' Association, Clubs and Societies Council and the Sports Association.

(c) University charges

The following charges will be made by the University in appropriate cases:

| | |
|--|------|
| Late enrolment | \$15 |
| Late submission of entry for examination | \$10 |

In addition, charges may be made to students who do not comply with University rules. Such charges are set out in the rules concerned.

All rules are printed towards the end of this volume. (See Table of Contents.)

Students in the third year of the dental course are required to pay to the Cashier, Royal Adelaide Hospital, a returnable deposit of \$20 in connection with the use of hospital equipment during the clinical years of the course.

Students in the fourth and fifth years of the medical course are required to pay hospitals residence charges of \$34.50 a year. Students may, if they prefer to do so, pay the full fee on enrolment at the beginning of the fifth year.

Students who arrange to take their examinations externally are responsible for the payment of charges for supervision.

(d) Compulsory excursions and camps

In some subjects or courses attendance at excursions or at camps (usually during vacation) forms a compulsory part of the associated practical work. The University will endeavour to meet the travel costs; however students are required themselves to meet whatever living costs (accommodation, meals, etc.) may be involved.

*Rules relating to the Union Fee are published in the Rules towards the end of this Volume (See Table of Contents).

INFORMATION FOR STUDENTS
OF THE UNIVERSITY

The subjects or courses where living costs are involved in attendance at compulsory excursions or camps are listed below with an estimate of those costs:

| | |
|---|------|
| Agricultural Science: | \$ |
| Field trips | 175 |
| Architecture and Planning: | |
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| Architectural Surveying (Field Work) | 100 |
| Arts: | |
| Geography (Second Year)..... | 30 |
| (Third Year)..... | 50** |
| (Honours)..... | 50 |
| Engineering: | |
| Civil Engineering IIIB, Survey Camp | 100 |
| Chemical Engineering (Final Year)..... | 120 |
| Science: | |
| Geology II..... | 80† |
| Geology III..... | 120† |
| Honours Geology, Economic Geology, Geophysics: each..... | 250† |
| Botany II | * |
| Botany III | * |

This list is published only for the information and guidance of students and in no way restricts the University in determining each year the nature, duration and cost of the excursions or camps associated with particular subjects or courses, or the list of subjects and courses in which such attendance may be required.

*Students should allow \$5-\$6 a day for Botany II and III courses/units which involve field camps.

†In addition students should allow up to \$75 for equipment and field clothing (full details from Department of Geology).

**Depends on the options selected and the number of field camps students elect to take.

5. Faculty Secretaries and Course Advisers

Faculty Secretaries:

The Secretaries of Faculties and Boards of Studies are members of the staff of the Academic Registrar. They are all university graduates, with training and experience in educational matters. In so far as courses are concerned, they are competent to give advice on matters relating to the course for which the Faculty or Board they serve is responsible.

A student who is in doubt about any matter concerning his course is advised to consult his Faculty Secretary in the first instance. **Appointments are desirable whenever possible.** The Faculty Secretaries are located on the first floor of the Mitchell Building and at the southern end on level 7 of the Kenneth Wills Building. There is a directory board in the foyer of the Mitchell Building.

| Faculty/Board | Secretary | Telephone Extension Number |
|---------------------------|----------------------------------|-------------------------------|
| Agricultural Science | Ms. E. Campbell ^m | 2673 |
| Architecture and Planning | Ms. B. A. Simondson ^m | 2935 |
| Arts | Ms. J. A. Philip ^m | 2256 |
| Dentistry | Mr. J. R. H. Cook ^k | 2207 |
| Economics | Mr. K. W. Halliday ^m | 2245 |
| Engineering | Mr. I. L. Carman ^k | 2246 |
| Environmental Studies | Ms. E. Campbell ^m | 2673 |
| Law | Mr. R. J. Hanney ^m | 2658 |
| Mathematical Sciences | Mr. B. E. Dolman ^m | 2666 |
| Medicine | Mr. I. L. Carman ^k | 2246 |
| Music | Mr. K. W. Halliday ^m | 2245 |
| Science | Mr. B. E. Dolman ^m | 2666 |
| Research Studies (Ph.D.) | Ms. E. Campbell ^m | 2673 |
| Scholarships Officer | Mr. J. Ogle ^m | 2502 |

m—Mitchell Building; *k*—Kenneth Wills Building.

Course Advisers:

Each Faculty and Board of Studies has appointed at least one adviser (usually a member of the academic staff) to advise students concerning courses of study and, where required, to approve the subjects for which they may be permitted to enrol.

Course Advisers are available for consultation throughout the year and students who feel that they are in need of advice, or who wish to discuss any problems relating to their courses, should call on their Course Advisers. **Appointments are desirable whenever possible.**

The Course Advisers for 1981 are as follows:

AGRICULTURAL SCIENCE:

Dr. A. R. Dexter, Soil Science
Dr. W. Wallace, Agricultural
Biochemistry

ARCHITECTURE AND PLANNING:

Mr. D. C. Eva, Architecture

ARTS:

B.A. students:

Dr. V. Brodsky Elliott, History
Dr. C. J. Cooper, Psychology
Mrs. N. Garçon, French
Mr. D. A. Hester, Classics
Dr. N. D. Mc Eachern, Politics
Dr. B. R. Westburg, English

Dip.App.Psych. students:

Dr. T. J. Nettlebeck, Psychology

Dip.Ed. students:

Miss M. J. Secombe, Education

M.Ed. and B.Ed. students:

Course work:

Mr. J. F. David, Education

Thesis:

Dr. J. A. Rowell, Education

DENTISTRY:

Mr. J. R. H. Cook, Faculty
Secretary, Kenneth Wills Building

ECONOMICS:

B.Ec. students:

Dr. G. G. Moffatt, Economics
Mrs. D. A. H. Wills, Commerce

M.B.M. students:

Mr. R. L. Newman, Commerce

ENGINEERING:

B.E. students:

Mr. J. R. Ewers, Civil Engineering
Mr. J. H. Fowler, Mechanical
Engineering

M.Eng.Sc. and M.App.Sc. students:

Dr. B. R. Davis, Electrical
Engineering
Dr. M. J. S. Hirst, Civil Engineering
Dr. K. D. King, Chemical
Engineering
Dr. M. Zockel, Mechanical
Engineering

ENVIRONMENTAL STUDIES:

Dr. J. R. Hails, Director of Centre
for Environmental Studies

LAW:

Mr. R. J. Fowler, Law

MATHEMATICAL SCIENCES:

B.Sc.(Math.Sc.) students:

Dr. P. R. Scott, Pure Mathematics
Mr. K. W. Morris, Statistics

Dip.Comp.Sc. students:

Dr. J. G. Sanderson, Computing
Science

MEDICINE:

Dr. R. A. Barbour, Anatomy and
Histology
Mr. D. Hardy, Microbiology and
Immunology

MUSIC:

Dr. C. J. Ellis, Music
Mr. D. R. Shephard, Music

SCIENCE:

Dr. R. H. Prager, Organic Chemistry
(Surnames A-G)
Dr. R. Sinclair, Botany
(Surnames H-O)
Dr. B. H. Horton, Physics
(Surnames P-Z)

6. Compulsory Medical Examination

It is compulsory for all full-time students in their first year at the University to have a medical examination and Mantoux Test, either by the Health Service or by their own doctors.

In the latter instance, the doctor is expected to conduct the examination in accordance with the provisions of the form used by the Health Service, and to complete the form and return it to the Health Service. The student must himself pay the doctor's fee in this case. There is no fee for examination by the Health Service. Health Service forms are obtainable on application to the clerk of the Health Service.

6A. Course overloads

Students who contemplate undertaking more than a normal course load must obtain approval of their course from a Course Adviser.

If a student is enrolled in two faculties, approval of one adviser from each faculty is required.

Students should be aware of the full implications of their choice to take a course overload and they may also wish to discuss the question with one of the Student Services.

7. Amendments to enrolment, or withdrawals from a course

A student who wishes to amend his enrolment must obtain an "Amendment to Enrolment" form from his Course Adviser, his Faculty Secretary or the University Office. The form must then be completed, approved by the appropriate Course Adviser, and returned to the Office of the Academic Registrar.

Once a student has enrolled the University continues to regard him as a student, subject to the statutes, regulations, rules and lawful directions of the University, until such time as he notifies the Academic Registrar on an "Amendment to Enrolment" form that he wishes to withdraw. [It is NOT sufficient for him merely to tell his lecturer.] After 31 July or the last day of second term* (whichever is the later) a student who withdraws will be regarded as having failed, unless at the time of his withdrawal he offers reasons for his withdrawal which satisfy the University.

Students should realise the importance of this matter in relation to the annual reviews of academic progress. Withdrawals which are regarded as failures may result in a student being precluded from taking further studies in his course. [See section 17 Preclusion from taking further studies in a course.]

A student who may be contemplating withdrawing is strongly advised to consider carefully **all** the relevant factors **before** he reaches a decision. In particular, before deciding to withdraw completely, he should investigate whether with suitable available assistance or modification of his course he might be able to continue studies. He may find it helpful first to consult one or more of the following: his Course Adviser; his Faculty Secretary; the University Health Service (see section 21 below); the Student Counselling Service (see section 22 below); the Welfare Co-ordinator (see section 23 below).

*Fourth-year Architecture and third-year Medical students will be regarded as having failed if they withdraw after the beginning of the third week of second term and later than four clear weeks before the last day of second term respectively.

8. Change of address or change of name

Change of address

A student who changes his correspondence address should immediately notify the Academic Registrar, and each department in which he is studying, of the change. Preferably the student should call in person at the Records Office [Level 7, southern end of Kenneth Wills Building] and complete the appropriate form.

Change of name

A student's name in the University's records is the name given by the student on his first enrolment when he signs the Student's Roll. Sometimes this name has to be reconciled with that on other documents such as a birth certificate or matriculation certificate. This name must continue to be used unless and until it is changed in a way acceptable to the University. [See below.]

Whether a student's name in the University's records is to be changed is for the student to decide, e.g. a female student who marries may elect to leave her University records under her maiden name, or ask that they be under her married name. They cannot be held concurrently under both names. On written request a married woman may, where the University's records already contain both maiden and married names, revert to use her maiden name.

In the interests of the student, the University will change a student's name in its records only if documentary evidence, satisfactory to the University, of the change of name is submitted. This evidence may be one of the following:

- (a) marriage certificate, birth certificate or passport;
- (b) deed poll, executed through a solicitor or notary public;
- (c) memorandum of change of name, issued by the Registrar General of Deeds. [This is a simple procedure and may be completed by calling at The Lands Title Office on the east side of Victoria Square—10 a.m. to 4 p.m. Monday to Friday. A small fee is required.]

A student wishing to have his or her name changed in the University's records should obtain from the Records Office, and complete, a "Change of Name and/or Address" form; attach the appropriate documentary evidence (original or photocopy); and lodge with the Records Office. An original document will be returned.

9. Entry for examinations and request for notification of results

Clause 2A of Chapter XXV of the Statutes requires every candidate for examination to lodge with the Academic Registrar a form of **Entry for Examination** (which includes a request for notification of results) on or before the end of the second term (in 1981: 8 August). This may be done at any time after 1 July. A late entry, if accepted, will be subject to a LATE CHARGE of \$10.

10. Students with a physical disability or other special circumstances

Students with physical disabilities (whether permanent or temporary), or other special circumstances, which they think may indicate a need for the University to make special arrangements to assist them in their study or with their examinations are invited to communicate with the Academic Registrar either before enrolment, or as soon as possible thereafter. Further, they might find it helpful if the relevant departments were suitably informed also.

11. Use of tape-recorders at lectures

The University's policy is as follows:

"In general, permission for a student to use a tape-recorder at University lectures will not be granted. In special cases however such permission may be given, but only

- (a) if both the lecturer concerned, and the Head/Chairman of his Department, approve; and
- (b) if the student gives a written undertaking that the recording
 - (i) will be for his own exclusive use, and will not be played to any other person; and
 - (ii) will be destroyed as soon as possible after it has served its purpose."

A student who feels that in his case there are good reasons why he should be permitted to use a tape-recorder at lectures is advised to consult, in the first instance, the appropriate Head/Chairman of Department. If medical considerations are involved he might find it helpful to consult also the University Health Service.

12. Repeating students: applications for exemption from attendance at lectures, tutorials or practical work

A student who is repeating a subject, particularly a laboratory subject, in which he has failed may be eligible to be granted exemption from lectures, tutorials or seminars, practical work and practical examination. All applications for such exemption must be lodged with the Academic Registrar, on the appropriate form, preferably before, but not later than, the end of the enrolment period. Preliminary enquiries may be made at the department concerned.

13. Compulsory attendance at classes

The regulations of undergraduate courses prescribe that a student must attend classes "to the satisfaction of the professors and lecturers concerned".

Departments vary in the emphasis that they place on attendance at classes; and students who may wish to know a department's attitude in this regard are advised to check with the department at the beginning of the year.

Some departments do not insist on attendance at lectures; but virtually all require attendance at tutorials, laboratory or other practical work, field work and so on.

A student who does not satisfy "the professors and lecturers concerned" that his attendance at classes has been satisfactory may render himself, on those grounds, ineligible to present himself for examination. Such preclusion from an examination will count as a failure for the purposes of Clause 4C of Chapter XXV of the Statutes. [See section 17 Preclusion from taking further studies in a course.]

14. Enrolment in a following year in a different course

The attention of every student is drawn to the following:

- (a) that in each course there is a quota on the number of new admissions in any year;
- (b) that any student who may wish to be accepted for a course different from that in which he is currently enrolled **must apply towards the end of the year** on the prescribed form, by the prescribed date (for 1982; 31 October, 1981).

There are three exceptions to this, namely (i) for 1982, a student from Science may enrol in Mathematical Sciences if approved to do so by a Mathematical Sciences Course Adviser; (ii) a student from Engineering previously enrolled in the course for the degree of B.E. (in the departments of Chemical or Electrical Engineering) may enrol in Mathematical Sciences or Science if approved to do so by a Mathematical Sciences or Science Course Adviser provided he is able to complete the requirements for the degree of B.Sc. in one year of full-time study, or its equivalent; and (iii) a full-time student in any course may in addition enrol for a single subject in another course, without necessarily being selected for entry to that course, provided that the Course Adviser for each course approves and so endorses the enrolment form. (But in this case no assurance can be given that any subject so passed may later be counted towards a degree.)

15. Insurance

Although of course the University has its own public risk policy, students who wish to be insured against accidents should take out private insurance cover. Indeed the Council strongly advises every student—particularly those involved in laboratory or field work of any form—to consider his position and where necessary take out his own personal accident insurance policy covering

- (a) injuries to himself, and

- (b) third party claims, i.e. any claims arising from injuries suffered, as a result of his actions, by some other person or persons.

In this connection attention is drawn to the scheme arranged by the University Union whereby all students are automatically, as members of the Union, covered by the Australian Union of Students Friendly Society Accident Insurance Scheme. Under this scheme a student involved in an accident may receive up to \$500 for medical and other expenses plus up to \$500 for dental expenses. However, third party claims are not included in the scheme. Full particulars may be obtained from the Union Office.

16. Supplementary examinations

Supplementary examinations may be granted, to students who have failed one or more examinations, on the following grounds: medical, compassionate, or academic.

The current rules governing the granting of Supplementary Examinations may be found in the leaflet "Supplementary Examinations", obtainable from the Office of the Academic Registrar.

Supplementary examinations are normally held in January. Examinations are conducted in Adelaide and students planning to go away on holidays during the long vacation are advised to take this into account.

It will not be possible to arrange examinations elsewhere for students who may be travelling, or on holiday, or in temporary employment, away from Adelaide or who are absent from Adelaide for reasons not connected with their course of study.

Students who become ill during the year or whose studies may have been adversely affected by unfortunate traumatic events are strongly advised to consult the Student Health Service at the earliest possible opportunity.

17. Preclusion from taking further studies in a course, or further enrolment not permitted for one year

Under the provisions of Clause 4C of Chapter XXV of the Statutes a student whose academic progress is considered to be unsatisfactory may be precluded from taking further studies in the course for which he is enrolled; or further enrolment in that course may not be permitted for one academic year; or he may be permitted to re-enrol, but with a restricted course.

The general policy of the Council, and the intention of the Faculties, is as follows:

1. Where a student has been unable to make adequate progress with his studies the Faculty concerned may, in the student's own interest, *either*

- (a) limit or prescribe the subjects he may undertake in the following year, *or*
- (b) ask him to give good reasons for being permitted to enrol in the next ensuing academic year, *or*
- (c) ask him to show good cause why he should not be precluded from all further studies in his course.

2. A student whose academic progress is under review will be asked to give in writing reasons for his poor academic performance. It may be necessary for some students to submit medical certificates or reveal certain personal matters. Any information they supply will, in the first instance, be considered only by a small sub-committee of the Faculty concerned. These cases are not considered in open Faculty unless there are particular reasons for doing so. Before making a submission, the student is given an opportunity to discuss his position with his Dean or Course Adviser, or other appropriate officer of the University, such as his Faculty Secretary, whose location may be found by consulting the directory board in the foyer of the Mitchell Building. [*See section 5 above.*]

3. If, in the light of the information supplied, the Faculty recommends that a student be required to defer his enrolment or be precluded, the student is informed of the decision by letter and given a further opportunity to bring before the University any information which was not available when the Faculty considered his case. Recommendations from the Faculties are considered by a Standing Committee of the Council, which reports to the Council. After taking into consideration all the evidence, the Council may confirm, vary or refer back to the Faculty the recommendation it has made.

4. It will be seen that a student whose progress is under review has ample opportunity to bring to the attention of his Faculty and the Council any information which he believes to be relevant to his poor academic performance. Each case is looked at individually, and is given full and careful consideration before any action is taken.

Further information may be found in a leaflet obtainable from the Office of the Academic Registrar.

18. Student records

An academic record card is maintained, for each student, by the Academic Registrar, and on this is kept information associated with the student's course of study. No other kind of information is kept on it.

Any student, past or present, of the University may apply at any time for a statement of his academic record. Information about the three types of statement that are available may be obtained on request to the Academic Registrar or to the Student Records Office.

All information supplied by a student for University purposes, and all details of his academic record, are regarded as confidential. Accordingly, in general a statement of a person's academic record is issued only at his request, or with his consent. The only exception to this is in the case of requests from other tertiary educational bodies.

19. Graduation ceremonies: admission to degrees and granting of diplomas

Normally, degrees are conferred and diplomas granted only at the Annual Commemoration Ceremonies (graduation ceremonies) which are usually held towards the end of the first term. In 1981 there will be four ceremonies at 11.00 a.m. and 3.00 p.m. on each of the last two Wednesdays of the first term, on 29 April and 6 May.* A candidate who believes that in his particular case there are **exceptional** circumstances which warrant the degree being conferred at either the July or December Council Meeting may make application to the Academic Registrar.

Students who are enrolled for their last subjects towards a Bachelor's degree or a diploma are required to lodge application forms for admission to a degree or granting of a diploma as soon as possible after 1 July. Application forms should preferably be lodged at the same time as the Form of Entry for Examinations (*see* section 9 above). Candidates for higher degrees will be notified by the Academic Registrar when they have been recommended for the award of their degrees and Application Forms will be sent to them for completion and immediate return.

An applicant for a degree may ask to be admitted to that degree *in absentia*, i.e. without personally attending a graduation ceremony, but the degree will nevertheless be conferred only at the graduation ceremony and not before. Candidates for the granting of diplomas do not participate personally in any of the Commemoration Ceremonies and are not therefore required to attend. Their names will however be printed in the appropriate programme.

INFORMATION FOR STUDENTS
OF THE UNIVERSITY

At the graduation ceremony a candidate attending for admission in person must wear the gown and hood appropriate to the degree to which he is to be admitted. Each candidate for a degree is presented by the Dean of the Faculty concerned to the Chancellor who officially admits him to his degree, shakes his hand and presents him with his degree certificate.

The *in absentia* candidates are formally admitted to their degrees by the Chancellor at the same ceremony as the candidates who are personally presented.

Each candidate for admission in person will be given tickets to enable three guests to attend the ceremony.

Details of the procedures for admission to degrees, including hire or purchase of academic dress, are given on a "tear-off" sheet attached to the degree or diploma application form. Further details concerning the ceremony are sent to all candidates in March.

Enquiries concerning the graduation ceremonies should be directed to Mr. J. R. H. Cook (extension 2207).

*The ceremonies in 1981 will be held as follows:

| Wednesday, 29 April | | Wednesday, 6 May | |
|------------------------------|---|------------------------------|--|
| First Ceremony at 11.00 a.m. | Engineering Science | Third Ceremony at 11.00 a.m. | Agricultural Science Arts (Ordinary B.A.) Music |
| Second Ceremony at 3.00 p.m. | Architecture and Planning Environmental Studies Law Medicine | Fourth Ceremony at 3.00 p.m. | Arts (Higher degrees and Honours degrees) Dentistry Economics Mathematical Sciences |

20. Barr Smith Library

The Barr Smith Library and its various branch libraries contain about 1,000,000 volumes; and 20,000 periodicals are currently received.

All students attending lectures at the University are entitled to use the Library for reference purposes. All students who are enrolled in a degree or diploma course in the University are entitled to borrow books from the Library. The rules for borrowing are printed in "Rules for the University Library" towards the end of this volume. (See Table of Contents.)

Information about library hours and the use of the Library may be found in its folder, "Information for Students". Free copies are available on application to the Librarian.

Generally the Library is open as follows:

During first and second terms and the latter part of the two short vacations: from 9.00 a.m. to 10.00 p.m. Monday to Friday; from 2.00 p.m. to 5.00 p.m. on Saturday; and from 1.30 p.m. to 5.30 p.m. on Sunday.

During third term and the early part of the two short vacations: from 9.00 a.m. to 11.00 p.m. on Monday to Friday; from 10.00 a.m. to 6.00 p.m. on Saturday; and from 1.30 p.m. to 5.30 p.m. on Sunday.

During the long vacation: from 9.00 a.m. to 10.00 p.m. on Wednesday; otherwise from 9.00 a.m. to 5.00 p.m. Monday to Friday until February; 9.00 a.m. to 6.00 p.m. from February until the beginning of term.

Notice boards should be consulted about arrangements for Public Holidays.

External students in the Faculty of Arts who reside in South Australia may register for service from the Country Lending Service of the Library on presentation of their certificate of exemption from attendance at lectures.

21. University Health Service

All students are eligible for casualty service, contraceptive care, or advice on personal problems at the Health Service which is located on the ground floor of the Horace Lamb Building. The Director, Dr. R. C. Heddle and Medical Officers, Dr. C. O. Auricht, Dr. Jeanette Linn and Dr. Dorothea Limmer, are available for consultation throughout the year; they are not, however, intended to replace your family doctor with whom they will liaise if necessary. [See section 16 Supplementary Examinations.]

22. Student Counselling Service

The Student Counselling Service aims to assist students with their problems, thereby enabling them to gain the maximum benefit from University life.

Students are offered assistance in dealing with personal difficulties or concerns, study problems, and course and career decisions. Interviews may be arranged by telephoning, or by calling at the Counselling Service which is located on the first floor, George Murray Building, next to the Union Bookshop, lower level. Three student counsellors are available from 9.00 a.m. to 5.00 p.m., generally at short notice. For further details a pamphlet can be obtained from a receptionist at the Service. Telephone 223 4333, extension 2098 and 2663.

23. Student Welfare Services

The Union Welfare Co-ordinator, who is located near the Lady Symon Building, is available to advise students concerning welfare resources, financial matters and housing. He acts as ombudsman for students seeking representations concerning academic and administrative decisions. He maintains a part-time and vacation employment service. He is available to assist overseas students with any problems.

24. Careers Advisory Board

The Careers Advisory Board provides information on careers, and all students have the opportunity to discuss careers open to them.

For final-year students assistance is given in finding employment. Interviews are arranged on campus with potential employers; liaison with the Professional Employment Office is maintained for job placement; information on employers and job-seeking techniques is distributed and information on postgraduate vocational courses is available.

For students interested in teaching, close liaison with the S.A. Education Department is maintained. A career newsletter "Options" is sent to students, discussing topics as they affect particular faculties, and an annual survey of the first destination of graduates is carried out. Careers literature and employer leaflets are available in the Board's Offices which are located on the top floor of the Old Classics Wing near the Wills Court waterfall.

25. Residence

There are five residential colleges affiliated with the University. St. Mark's is for men; Aquinas, Lincoln and St. Ann's are for men and women; and Kathleen Lumley is for postgraduate students. Each of the four undergraduate colleges provides single study-bedrooms for all students, meals seven days a week, recreational and sporting facilities, a library, television and common rooms, music practice facilities and a chapel or oratory. The colleges offer some additional tuition especially for first-year students, by resident

and non-resident tutors and the students' clubs encourage sporting, dramatic and social activities. For particulars of admission application should be made direct to:

The Master, St. Mark's College, 46 Pennington Terrace, North Adelaide, S.A. 5006.

The Rector, Aquinas College, 19 Palmer Place, North Adelaide, S.A. 5006.

The Master, Lincoln College, 45 Brougham Place, North Adelaide, S.A. 5006.

The Principal, St. Ann's College, 187 Brougham Place, North Adelaide, S.A. 5006.

The Master, Kathleen Lumley College, 51 Finnis Street, North Adelaide, S.A. 5006.

Students who wish to live in lodgings are usually able to secure reasonably satisfactory living accommodation. Alternatively students may seek accommodation in one of the houses owned by the University in lower North Adelaide. These houses are administered by the Board of Non-Collegiate Housing. The Union Welfare Co-ordinator will supply details of the non-collegiate housing and will assist all students in obtaining suitable accommodation. (See section 23 above.)

The Accommodation Officer of the Council for the Welfare of Overseas Students in South Australia, 10th Floor, Sun Alliance House, 45 Grenfell Street, Adelaide, S.A. 5000 (Telephone: 51 3651) will, on application, help all overseas students seeking living accommodation. The Australian Development Assistance Bureau, at the same address, employs a social worker who is able to assist with any personal problems that may be encountered by overseas students.

26. The Mackinnon Parade Child Care Centre

Students with children between the ages of three months and five years may wish to avail themselves of the facilities offered by the Mackinnon Parade Child Care Centre where there are special concessions for student-parents. Enquiries should be addressed to the Director, The Mackinnon Parade Child Care Centre, 148 Mackinnon Parade, North Adelaide 5006. (Telephone: 223 4333, extension 2930.)

27. Rules

The attention of all students is drawn to the following Rules which are printed towards the end of this volume. (See Table of Contents.)

Rules for the University Library.

Laboratory Rules and Rules applicable to Students on University Premises.

Rules for Students using the Economics Statistics Laboratory.

Rules for Students using the Napier Birks Room.

Rules of the Computing Annexes.

Rules for the Conduct of Examinations.

Rules relating to the Union Fee.

28. Parking

The University much regrets that it cannot provide parking facilities for persons not holding permits. Save in the most exceptional circumstances (e.g. severe physical handicap), day-time permits cannot be made available to students, whether full-time or part-time. Part-time students especially are advised to consider carefully, before enrolling, whether it will be feasible for them to attend classes at the times they are held; and they should make their decision in the knowledge that permits for parking in the University grounds during the day time will **not** be available to them.

FACULTY OF AGRICULTURAL SCIENCE

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

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OF THE DEGREE OF
**BACHELOR OF AGRICULTURAL
SCIENCE**
REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Agricultural Science. A candidate may obtain either degree or both.
2. Except in special cases allowed by the Council, every candidate for the degree of Bachelor of Agricultural Science shall after matriculation spend at least four academic years in courses of study for the degree.
3. To qualify for the degree, whether the Ordinary or the Honours degree, every candidate must do such written, laboratory and other practical work as is required and pass examinations in the subjects prescribed. He must also present evidence to the satisfaction of the Council that he has had the practical experience prescribed.
4. (a) Schedules defining the course of study, including laboratory and other practical work to be undertaken and the examinations to be passed, shall be drawn up by the Faculty of Agricultural Science and submitted to the Council for approval.
(b) Such schedules shall become effective from the date of approval by the Council or from such other date as the Council may determine, and shall be published in the next edition of the University Calendar.
5. Except by permission of the Faculty of Agricultural Science, a candidate shall not be admitted to the class in any subject for which he has not satisfactorily completed the pre-requisite studies as prescribed in the syllabus for that subject: Provided that the Faculty may grant a candidate who holds an Honours diploma of Roseworthy Agricultural College such exemption from the requirements of this regulation, and on such conditions, as it may determine.
6. A candidate may be exempted from attendance at practical work in a subject in which he desires to be examined, but only upon grounds approved by the Council.
7. (a) Except in cases approved by the Council, the annual examination in a subject shall be held soon after the completion of the course of instruction in it. Supplementary examinations, when granted, shall be held at such time as may be fixed whether in term or in vacation.
(b) A candidate shall enter for examination on a form and by a date prescribed by the Council, but shall not be eligible to present himself for examination unless he has done written and laboratory or other practical work, where required, to the satisfaction of the professors and lecturers concerned.
(c) At the annual examination in a subject, the examiners may take into account the candidate's written or practical work in the subject and his results at terminal or other examinations in it.
8. (a) A candidate who fails to pass in any subject shall, before presenting himself again for examination, again do practical work in that subject to the satisfaction of the professor and lecturers concerned unless exempted from doing so by the Faculty of Agricultural Science.

(b) A candidate who has twice failed to pass the examination in any subject may not enrol for the subject again except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause, a candidate who fails to receive permission to sit for or absents himself from the examination in any subject after having attended substantially the full course of instruction in it shall be deemed to have failed to pass the examination.

9. There shall be three classifications of pass at an annual examination in any subject for the Ordinary degree, as follows: Pass with Distinction, Pass with Credit, Pass. The names of the candidates who pass with Distinction or with Credit shall be arranged in order of merit within the classification; the names of other candidates who pass shall be arranged in alphabetical order either in one list or in two divisions as the Council may, on the recommendation of the Faculty, determine. If the list of candidates who pass be published in two divisions, a pass in the higher division may be prescribed in the appropriate syllabus as pre-requisite for admission to another subject. A candidate with a lower division pass who wishes to gain a higher division pass will be allowed to repeat the subject once only.

10. (a) A candidate for the Honours degree shall spend an additional year in advanced study in one of the subjects listed in the schedule relating to the Honours degree.

(b) The names of candidates who qualify for the Honours degree shall be published in alphabetical order within the following classes and divisions:

First Class

Second Class

Division A

Division B

Third Class.

11. A candidate who has passed subjects in other faculties or other universities or elsewhere, may on written application to the Academic Registrar be granted such exemption from these regulations and schedules made under them as the Council on the recommendation of the Faculty may determine.

Regulations allowed 28 January, 1965.
Amended: 21 Dec. 1967: 6, 7, 10; 24 Dec. 1969: 3, 4, 8; 28 Feb. 1974: 11; 15 Jan. 1976: 4.

OF THE DEGREE OF
**BACHELOR OF AGRICULTURAL
SCIENCE**

SCHEDULES

(Made by the Council under regulation 4.)

NOTE: Syllabuses of subjects for the degree of B.Ag.Sc. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: THE ORDINARY DEGREE

1. The subjects of study for the Ordinary degree shall be as follows:

GROUP A SUBJECTS AND HALF-SUBJECTS

Subjects

SZ71 Biology I
SC01 Chemistry I
EE11 Economics I*
SG01 Geology I

QM01 Mathematics I
QM11 Mathematics IM
SP01 Physics I
(see also 4. below)

Half-subjects

SB6H Botany IH
QA7H Computing IH
SJ7H Genetics and Human Variation IH
EE1G Macroeconomics IH*

QM7H Mathematics IH
EE2G Microeconomics IH*
QT7H Statistics IH

GROUP B SUBJECTS AND HALF-SUBJECTS

Subjects

WX02 Agriculture II
QN22 Applied Mathematics IIA
QN12 Applied Mathematics IIB
SB02 Botany II
SC12 Chemistry II

SJ02 Genetics II
SG02 Geology II
QM02 Pure Mathematics II
SZ02 Zoology II

Half-subjects

EE3G Macroeconomics IIH

EE4G Microeconomics IIH

GROUP C SUBJECTS

WB03 Agricultural Biochemistry I
WP03 Agricultural Microbiology
WX03 Agriculture III
WN03 Animal Physiology and
Production I
WY83 Biometry
WF03 Crop Physiology

EE43 Economics of Natural
Resource Use**
WE03 Crop Protection
EE53 Farm Management†
EE63 Farm Prices and Policy††
QT02 Mathematical Statistics II
WS03 Soil Science I

*Students may enrol for and count towards the degree only *one* of the following subjects and half-subjects: EE11 Economics I, EE1G Macroeconomics IH, EE2G Microeconomics IH, except that students who have passed *either* EE1G Macroeconomics IH or EE2G Microeconomics IH prior to 1981 may enrol for and count towards the degree the other half-subject not previously passed.

**EE43 Economics of Natural Resource Use is offered in alternate years (odd years).

†EE53 Farm Management is offered in alternate years (even years).

††EE63 Farm Prices and Policy is offered in alternate years (odd years).

GROUP D SUBJECTS

| | |
|---|--|
| WB04 Agricultural Biochemistry II | SJ03 Genetics III |
| WX04 Agriculture IV | WF04 Horticultural Science |
| WA74 Agronomy | QT03 Mathematical Statistics III |
| WN04 Animal Physiology and Production II | WA84 Plant Breeding and Crop Genetics |
| EE03 Economics III (Agricultural Science) (see 5. below) | WP04 Plant Pathology |
| WE04 Entomology | WS04 Soil Science II |

2. To qualify for the Ordinary degree a candidate shall, subject to the conditions and modifications specified in clause 6, satisfactorily complete the following courses:

- (a) SC01 Chemistry I, SZ71 Biology I, QT7H Statistics IH and the equivalent of one and a half group A subjects.
- (b) WX02 Agriculture II and *either* two other subjects from group B *or* one other subject from group B and a group A subject not previously taken or its equivalent.
- (c) WX03 Agriculture III, WP03 Agricultural Microbiology and *either* WY83 Biometry and three other subjects from group C *or* QT02 Mathematical Statistics II and two other subjects from group C.
- (d) WX04 Agriculture IV and *either* two other subjects from group D *or* one other subject from group D and two subjects from group C not previously taken.

3. Except with special permission of the Faculty a candidate who has not completed all the subject requirements of any given year may not enrol in subjects of the subsequent year unless the candidate is also enrolled in the subjects required for the successful completion of the given year.

4. A candidate may present *in lieu* of not more than one group A subject, or its equivalent, required under section (a) or (b) of clause 2 above, NX21 Engineering IA or NX31 Engineering IB or not more than the equivalent of a first-year subject available in the Faculty of Arts, or SP8H Astronomy IH and another half-subject available in either the Faculty of Arts or the Faculty of Science.

5. A candidate wishing to present EE03 Economics III (Agricultural Science) towards the degree must take EE33 Economics IIIA and one half-subject from the following list:

| | |
|--|--------------------------------|
| EE4H Agricultural Economics IIIH | EE3H Economics of Labour IIIH |
| EE8H Econometrics IIIH | EE7H Managerial Economics IIIH |
| EE9G Economics of Antitrust and Regulation IIIH | EE2H Public Finance IIIH |

6. (a) No candidate will be permitted to count for the degree any subject or half-subject together with any other subject or half-subject which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject, or half-subject, may be counted twice towards the degree.*

(b) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

7. A candidate who enrolled for the degree during or before 1971 may continue either under the schedules then in force or under the new schedules.

*A table of unacceptable combinations of subjects and half-subjects is given towards the end of this Volume (see Table of Contents).

8. Candidates from other faculties and institutions

(a) Candidates from other faculties in the University, or from other tertiary educational institutions, may apply to the Academic Registrar for status in appropriate subjects in the course for the degree of Bachelor of Agricultural Science. Those from within the University will, however, be required to satisfy the examiners in the subjects WX02 Agriculture II, WX03 Agriculture III and WX04 Agriculture IV. Those from other institutions may be granted status in WX02 Agriculture II and WX03 Agriculture III but only in exceptional circumstances; and they will not be granted status in WX04 Agriculture IV.

(b) Extra study as prescribed by the Head/Chairman of the department concerned may be required in nominated subjects before the candidate enters the course.

9. Roseworthy Agricultural College

A candidate who holds an Honours diploma of Roseworthy Agricultural College may be exempted from taking the subjects in group C and may be admitted to the subjects in group D at the discretion of the Head/Chairman of the department concerned and with permission of the Dean of the Faculty.

10. Practical Experience*

(a) A candidate will be required to complete 16 weeks of practical agricultural experience approved by the Faculty of Agricultural Science before he will be admitted to the degree. The candidate will be required to gain practical experience on properties in at least three different agricultural environments and he should discuss in advance with the Practical Experience Administrator, his plans for practical experience.

(b) A candidate who holds the diploma of Roseworthy Agricultural College will be exempted from the requirements of practical experience.

11. When, in the opinion of the Faculty of Agricultural Science, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary the provisions of clauses 1-10 above.

NOTE (not forming part of the schedules):

Work required to complete an Adelaide degree.
With special permission of the Faculty, (i) students coming from other universities and wishing to obtain an Adelaide degree, will be required to complete at least the whole of the work of the final year of the course at Adelaide; and (ii) a student who has completed at Adelaide, at least the first three years of the degree, or its equivalent, may be permitted to complete the requirements of the degree at another institution.

SCHEDULE II. THE HONOURS DEGREE

1. A candidate may, subject to approval by the Head/Chairman of the department concerned, proceed to the Honours degree in one of the following disciplines:

| | |
|--|---------------------------------------|
| WB89 Honours Agricultural Biochemistry | SJ79 Honours Genetics |
| WA89 Honours Agronomy | WF99 Honours Horticultural Physiology |
| WN99 Honours Animal Physiology and Production | WP99 Honours Plant Pathology |
| WY89 Honours Biometry | WF89 Honours Plant Physiology |
| WE99 Honours Entomology | WS99 Honours Soil Science |

2. A candidate for the Honours degree in any subject shall not begin Honours work in that subject until he has completed the course of study for the Ordinary degree, all the courses in that subject available for the Ordinary degree, and such other pre-requisite subjects (if any) as may be prescribed in the syllabus.

*Students who were enrolled in 1972 in the second, third or fourth year of the course may satisfy the requirements relating to practical experience either under this schedule or the previous schedule (see Calendar for 1973, p. 515).

OF THE DEGREE OF
**BACHELOR OF AGRICULTURAL
SCIENCE**
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

AGRICULTURAL BIOCHEMISTRY.

WB03 Agricultural Biochemistry I.

A course of two hours lectures and five hours practical work a week for three terms dealing with the intermediary metabolism of micro-organisms, plants and animals. Topics include enzymology; metabolism of carbohydrates, lipids, protein and nucleic acids; control mechanisms; biochemistry of vitamins and coenzymes and biochemistry of nitrogen and sulphur cycles in nature. Practical work will consist of experiments related to the above topics.

Aims of the Course: The course is designed to give students a basic knowledge of biochemistry, which is fundamental to all branches of biological science, and to illustrate the application of biochemistry to agriculture generally.

Text-books:

Conn, E. E., and Stumpf, P. K., *Outlines of biochemistry*, 4th edition (Wiley).

Lehninger, A. L., *Short course in biochemistry* (Worth).

Lehninger, A. L., *Biochemistry*, 2nd edition (Worth)—suitable also for Agricultural Biochemistry II.

WB04 Agricultural Biochemistry II.

Pre-requisite subject: A good pass in WB03 Agricultural Biochemistry I. Completion of SC12 Chemistry II would be an advantage.

A course of two hours lectures, one hour tutorial and eight hours practical work a week for three terms dealing with advanced aspects of the intermediary metabolism of micro-organisms, plants and animals. The topics will be considered in three main sections:

1. THE REGULATION OF CELLULAR ACTIVITY.

Molecular mechanisms of enzyme regulation and the control of metabolic pathways.

2. THE BIOCHEMICAL BASIS OF GROWTH AND DEVELOPMENT.

Cell division and the biosynthesis of nucleic acids during the cell cycle. Modulation of protein level in higher organisms. Biochemical function of trace elements.

3. DIVERSITY IN METABOLISM.

Utilisation of inorganic nitrogen and sulphur compounds in micro-organisms and in plants, specialised pathways related to compounds of physiological importance.

The practical work will consist of experiments related to the above topics and training in the use of stable and radio-active isotopes in biochemistry as well as a short research project.

Aims of the Course: The course will give the candidate an opportunity to gain an appreciation of current knowledge and developments in major areas of biochemistry; develop a range of laboratory skills; view agricultural problems through this acquired knowledge and skill; tackle a research problem, which should involve the planning and carrying out of experiments to test an hypothesis; become familiar with the biochemical literature and be able to make an appraisal of published work; present ideas and arguments in written and verbal form.

Text-books:

Kornberg, A., *DNA replication* (Freeman).

Lehninger, A. L., *Biochemistry*, 2nd edition (Worth).

Yudkin, M., and Offord, R., *Comprehensible biochemistry* (Longman).

A reading list will be given in the lectures.

HONOURS DEGREE.

WB89 Honours Agricultural Biochemistry.

Pre-requisite subject: A good pass in WB04 Agricultural Biochemistry II.

Students wishing to take the Honours degree in Agricultural Biochemistry should consult the Chairman of the Department of Agricultural Biochemistry during the third term of their final year of the B.Ag.Sc. Ordinary degree.

Candidates will be required to attend tutorials and to prepare seminars on selected topics. A research project will be assigned to each candidate, who will be required to present the results in a short thesis at the end of the course. Examination papers will also be set. Candidates should have a reading knowledge of a modern, foreign language. Candidates are expected to begin studies on 1 February.

AGRICULTURE.

WX02 Agriculture II.

A course of three lectures, three hours practical work and one tutorial a week for three terms and two one-day weekend field trips.

HUMAN SOCIOLOGY AND USE OF AGRICULTURAL RESOURCES:

The development of agriculture: Agriculture as a science including the logic of scientific discovery. Classification of agricultural systems. Sites of agricultural development; centres and theories of origin. Contemporary systems of agriculture and resource inputs. Role of science and technology.

Agriculture in the Australian economy: adjustment and welfare problems, marketing and Government intervention. Funding of research and development. Diffusion of new technology.

PHYSICAL ENVIRONMENT OF AGRICULTURE:

An integrated development of the following topics. *Climate:* radiation; energy and water balances. Climatic variations; macro- and micro-climates; relationships to plants, animals and man. *Hydrology:* precipitation, evaporation, surface runoff, infiltration, and their effects on soil water, ground water and stream flow. Water quality, salinity. Hydrology and land use. *Soils:* origin and constitution of soils; soils of the world; geomorphology, soils and land use of Australian regions.

ECOLOGY OF NATURAL AND AGRICULTURAL SYSTEMS:

The nature and management of natural and agricultural systems: diversity, stability, instability, epidemics, plagues; and control of instability in these systems. Plant and animal variability, domestication, breeding and selection. Preservation of existing variability. Population dynamics in ecology and its application to agriculture. The allocation and protection of resources and the formulation and implementation of policies in resource use.

Text-book:

Australia C.S.I.R.O., *The Australian environment*, 4th edition (M.U.P., paperback).

Reference book:

Grigg, D., *The agricultural systems of the world—an evolutionary approach* (C.U.P.).

WX03 Agriculture III.

A course of two lectures and three hours practical work a week for three terms.

LAND USE:

Determination of land use by climate, soil, economic and sociological factors. The nature of farming and farming operations. Soil fertility, tillage, soil conservation and the use of fertilisers. Land development. Principles of pasture establishment and pasture improvement.

CROP PRODUCTION:

Principles of crop production. Annual and perennial crops. Comparisons of horticultural and agricultural production. Areas, types of enterprise, problems, research.

Factors affecting crop yields. Plant populations, plant type, environment and physiological factors.

Selected topics of production and uses of a range of crops; soil preparation, seeding, fertilisers, weed and pest control, harvesting and processing, storage and markets.

Marketing and economic control of the crop industries.

ANIMALS AND THE ANIMAL INDUSTRIES:

Characteristics, distribution and environmental tolerances of principal species and breeds of livestock. Animal nutrition, reproduction, growth and lactation. Factors which limit reproductive rate, numbers of offspring, rate of growth, body composition, lactation, wool growth. Efficiency factors in animal production. Feeding systems. Nutritive value of pastures, seasonal cycles, regional characteristics. Pasture animal interactions.

The Australian livestock industries; problems and prospects. World supplies of animal protein: distribution, need, cost. Crop versus animals as sources of food for man. Competitors of animals.

Reference books:

Alexander, G., and Williams, O. B. (eds.), *The pastoral industries of Australia* (Sydney U.P.).

Australia, C.S.I.R.O., *The Australian environment*, 4th edition (M.U.P.).

Moore, R. M., *Australian grasslands* (A.N.U.).

Wadham, S., and others, *Land utilization in Australia*, 4th edition (M.U.P.).

WX04 Agriculture IV.

Pre-requisite subjects: WX02 Agriculture II and WX03 Agriculture III.

Three hours a week for three terms.

INTEGRATION OF SCIENCE, PRACTICE, AND POLICIES IN AGRICULTURE:

A series of seminars and essays on selected topics of current interest. There will also be some invited speakers on subjects such as agricultural extension methods, overseas agriculture and other relevant information.

AGRONOMY.

WA74 Agronomy.

A course of three lectures and seven hours practical a week for three terms. The practical work includes visits to research stations, discussions on agronomic practice and an individual experimental project.

AGRONOMIC EXPERIMENTATION:

Development of a research project, formulation and testing of hypotheses, errors in experimentation, field plot variability and components of yield. Problems associated with field and glasshouse experiments. Interaction of plants and animals in grazing experiments.

BOTANY AND ECOLOGY OF CROP AND PASTURE PLANTS:

Origin, evolution, morphology and development of agriculturally important species.

GROWTH PHYSIOLOGY OF CROP AND PASTURE PLANTS:

The growth and yield of pasture grasses, subterranean clover, wheat, maize, potato and grain legumes are considered in relation to morphology, development, physiology and adaptation.

PLANT ENVIRONMENT RELATIONSHIPS—ENERGY AND WATER:

Dynamics of water and nutrient supply to the growing crop via the root system. Energy balance and the use of energy in crop production. Evaporation and crop water use.

PLANT ENVIRONMENT RELATIONSHIPS—NUTRIENTS:

Relationships between crop yield and plane of nutrition; methods of assessing soil fertility and fertiliser needs; soil and plant analyses, critical levels; genotypic variation in nutrient requirements; nutritional effects on plant water relationships; nitrogen fixation, and disease resistance.

PASTURE ECOLOGY, PRODUCTION, MANAGEMENT AND UTILISATION:

The grazing animal in the ecosystem; pasture production under grazing; nutritive value of pastures and the role of supplementary forage crops and fodder conservation; grazing management and animal production systems; the integration of crops and pastures.

WA84 Plant Breeding and Crop Genetics.

Pre-requisite subject: A pass in *either* SJ02 Genetics II *or* SJ7H Genetics and Human Variation IH. Students planning to proceed to Honours in Agronomy with a plant breeding project are advised to take the Genetics II alternative.

A course of three lectures and seven hours practical work a week for three terms. The practical work includes an individual project.

Objectives and bases of breeding programmes. Plant introduction, adaptation, effect of breeding history, breeding systems, variability, selection methods, in self and cross-pollinated plants. Crop plant evolution. Genetic resources and their conservation. The role of international organisations in plant breeding.

Haploidy, polyploidy, incompatibility, mutation, male sterility, disease resistance, cytogenetics, inter-specific hybridisation and genetic engineering in relation to plant breeding.

Breeding for yield and quality. Biometrical, physiological and biochemical analysis. Genetic control of economically important characters. General philosophy of breeding, contributions of plant breeding to agriculture. Field plot procedures, mechanisation, computer techniques.

In addition, students are required to attend the course on agronomic experimentation given in WA74 Agronomy. Students taking both Agronomy and Plant Breeding will be given additional work in plant breeding to compensate for this material which is common to both subjects.

HONOURS DEGREE.

WA89 Honours Agronomy.

Students wishing to take the Honours degree in the Department of Agronomy should consult the Chairman of the Department during the third term of their final year of the Ordinary degree of B.Ag.Sc.

Candidates will be required to attend tutorials and to prepare seminars on selected topics. A research project will be assigned to each candidate, who will be required to present the results in a thesis at the end of the course. Examinations will also be set. Candidates may be required to develop a reading knowledge of a modern, foreign language. Candidates are to begin studies on or about 1 February.

ANIMAL PHYSIOLOGY.

WN03 Animal Physiology and Production I.

A three-term course of five hours a week in three sections.

ANATOMY AND HISTOLOGY:

Gross structure and histology, with emphasis on the anatomical specialisation of ruminants. Structure-function relations of muscle, storage organs, glands, egg formation and reproductive tract.

PHYSIOLOGY AND BIOCHEMISTRY:

Cellular and systematic physiology. Respiration, circulation and body fluids. Animal functions in relation to environment, nutrition and productive efficiency. Protein production, and its ecological implications. Functions of skin, glands, hair and wool. Body composition, growth; metabolic turnover and conversion of water, electrolytes, proteins, carbohydrates and fats. Chemistry and synthesis of milk, meat and wool. Digestion, secretion, absorption and transport of metabolites. Endocrine functions, reproductive physiology. Nervous and neuroendocrine control. The senses. Behaviour. Adaptive mechanisms.

NUTRITION AND PRODUCTION:

Basic concepts of animal nutrition: balance of energy, carbon, nitrogen, electrolytes, and water. Energy, mineral and vitamin requirements and deficiencies, in growth, production and reproduction. Ecology and nutrition of the grazing animal: seasonal limitations to production. The economic approach to supplementary feeding, drought feeding, lot feeding, the use and limitations of feeding standards. Nutrition of pigs and poultry. Nutrition as a factor modifying the form, composition and carcass quality of farm animals.

Recommended texts:

Bell, G. H., and others, *Textbook of physiology and biochemistry* (Livingstone).

Hafez, E. S. E., and Dyer, I. A., *Animal growth and nutrition* (Lea and Febiger).

Phillis, J. W. (ed.), *Veterinary physiology* (Wright-Scientifica).

Pike, R. L., and Brown, M., *Nutrition: an integrated approach* (Wiley).

Toner, P. G., and Carr, K. E., *Cell structure* (Livingstone).

WN04 Animal Physiology and Production II.

Pre-requisite subject: WN03 Animal Physiology and Production I.

A three term course of ten hours a week including a project.

PHYSIOLOGY:

Protein sources, protein synthesis, and patterns of protein use. Relative efficiencies and consequences of intensive and extensive production processes. Waste. Functional adjustments of bird, cattle, pig, sheep, goat to diverse environments. Physiological ecology in tropical, desert and temperate zone animal industry. Hormones, growth and metabolic controls in birds and mammals. Behaviour and sociology. Photoperiod and seasonality. Reproduction, lactation. Population genetics and animal breeding.

ANIMAL PRODUCTION:

Special aspects of ruminant metabolism and nutrition. Principles of experimentation with grazing animals, methods for studying production in the field: wool, growth, milk production, reproduction, body growth and its components; carcass evaluation. Seasonal productivity and nutritive value of pastures, nitrogen turnover of grazing animals. The assessment of herbage intake, grazing time and composition of the diet.

PRINCIPLES OF DISEASE CONTROL:

Developmental, parasitic, degenerative and toxic dysfunctions. Principles of immunology, antibiosis and actions of trace elements. Management and legal aspects of disease. Introductory pharmacology and toxicology.

Recommended texts:

- Blaxter, K. L., *Energy metabolism of ruminants* (Hutchinson).
Hafez, E. S. E. (ed.), *Adaptation of domestic animals* (Lea and Febiger).
Phillis, J. W. (ed.), *Veterinary physiology* (Wright-Scientifica).
Yeates, N. T. M., *Modern aspects of animal production* (Butterworth).

HONOURS DEGREE.

WN99 Honours Animal Physiology and Production.

A candidate for the degree will be required to pass such examinations on the chosen subject of study as may be prescribed by the Chairman of the Department, and to submit a thesis reporting research work undertaken during the year.

A candidate may also be required to attend lectures and pass examinations in related subjects and to satisfy the Chairman of the Department that he has a reading knowledge of one or more languages other than English. University time not devoted to lectures must be spent in activities approved by the Chairman of the Department. Intending candidates should consult the Chairman of the Department concerned and should be prepared to begin studies on or about 1 February.

BIOMETRY SECTION.

WY83 Biometry.

Pre-requisite: a pass at Division II or higher standard in QT7H Statistics IH.

The course comprises two lectures and a one-hour tutorial class each week.

The syllabus is designed to provide an introduction to advanced statistical methods and mathematical topics of importance in biology. It comprises: computer programming; univariate distributions; the multivariate normal distribution; analysis of categorical data; design and analysis of experiments (analysis of variance, transformations, sequential methods); regression analysis; sampling theory; multivariate techniques; deterministic models (systems analysis: computer simulation of deterministic models); stochastic models (Poisson process, systems analysis: computer simulation of stochastic models).

In addition, one or more of the following topics will be covered: epidemiology; bioassay; time series; quality control.

No text-book is recommended. A list of reference books will be available beforehand and will also be provided at the first lecture.

HONOURS DEGREE.

WY89 Honours Biometry.

Pre-requisite subject: QT03 Mathematical Statistics III.

A candidate for the degree will be required to pass such examinations on the chosen subject of study as may be prescribed by the Head of the Section, and to submit a thesis reporting research work undertaken during the year.

A candidate may also be required to attend lectures and pass examinations in related subjects and to satisfy the Head of the Section that he has a reading knowledge of one or more modern languages other than English. University time not devoted to lectures must be spent in activities approved by the Head of the Section. Intending candidates should consult the Head of the Section and should be prepared to begin studies on or about 1 February.

ECONOMICS.

(FOR THE DEGREE OF BACHELOR OF AGRICULTURAL SCIENCE)

GROUP A SUBJECT AND HALF-SUBJECTS:

EE11 Economics I.*

EE1G Macroeconomics IH.*

EE2G Microeconomics IH.*

*Students may enrol for and count towards the degree only *one* of the following subjects and half-subjects: EE11 Economics I, EE1G Macroeconomics IH, EE2G Microeconomics IH, except that students who have passed *either* EE1G Macroeconomics IH *or* EE2G Microeconomics IH prior to 1981 may enrol for and count towards the degree the other half-subject not previously passed.

For syllabuses see under the degree of B.Ec. in the Faculty of Economics.

GROUP B HALF-SUBJECTS:

EE3G Macroeconomics IIH.

EE4G Microeconomics IIH.

For syllabuses see under the degree of B.Ec. in the Faculty of Economics.

GROUP C SUBJECTS:

EE43 Economics of Natural Resource Use.

Pre-requisite subject: EE1G Macroeconomics IH and EE2G Microeconomics IH.

This course is offered in alternate years (odd years), for students proceeding to the degree of Bachelor of Agricultural Science or Master of Environmental Studies. The course will consist of two lectures and one tutorial a week throughout the year, and will cover the following topics:

Concepts from welfare economics, and in particular the notions of economic efficiency, redistribution of income, externalities and public goods. Application of these concepts to problems of pollution, and the methods of solving environmental problems. The economics of resource conservation and the use of common property resources.

Theory and techniques of project evaluation, and their application to the social evaluation of publicly financed agricultural projects.

Economic growth, including a survey of economists' theories, the historical record, and recent critiques and policy proposals.

Text-books:

Cipolla, C. M., *The economic history of world population* (Penguin).

Dasgupta, A. K., and Pearce, D. W., *Cost benefit analysis* (Macmillan).

Pearce, D. W., *The economics of national resource depletion* (Macmillan).

Seneca, J. J., and Taussig, M. K., *Environmental economics* (Prentice-Hall).

EE53 Farm Management.

Pre-requisite subject: EE2G Microeconomics IH.

This course is offered in alternate years (even years), for students proceeding to the degree of Bachelor of Agricultural Science. The course will consist of two lectures and three hours practical work a week and will cover the following topics:

The nature of farm businesses, theories of farm management, farmers' goals, an analysis of farm investment, and farm management accounting methods.

Farm management techniques—including cash flow, partial and parametric budgeting, gross margins analysis, development budgets and net present value, and the decision theoretic approach to farm management problems. Farm management games are used to give students the opportunity to gain experience in the use of these techniques.

Text-books:

Barnard, C. S., and Nix, J. S., *Farm planning and control* (C.U.P.).

Chisholm, A. H., and Dillon, J. L., *Discounting and other interest rate procedures in farm management* (Professional farm management guidebook no. 2).

Makeham, J. P., and others, *Best-bet farm decisions* (Professional farm management guidebook no. 6).

Queensland, Dept. of Primary Industries, *Accounting and planning for farm management*.

Rickards, P. A., and McConnell, D. J., *Budgeting, gross margins and programming for farm planning* (Professional farm management guidebook no. 3).

EE63 Farm Prices and Policy.

Pre-requisite subject: EE1G Macroeconomics IH and EE2G Microeconomics IH.

This course is offered in alternate years (odd years), for students proceeding to the degree of Bachelor of Agricultural Science. The course will consist of two lectures and one tutorial a week throughout the year, and will cover the following topics:

An analysis of the determinants of prices for agricultural products, and various methods of forecasting agricultural prices.

The objectives of agricultural policy, and an analysis of agricultural policy measures in Australia and some overseas countries.

Text-books:

Campbell, K. O., *Agricultural marketing and prices* (Cheshire).

Throsby, C. D., *Agricultural policy* (Pelican).

Tomek, W. G., and Robinson, K. L., *Agricultural product prices* (Cornell U.P.).

GROUP D SUBJECT:

EE03 Economics III (Agricultural Science).

EE03 Economics III (Agricultural Science) is available to students proceeding to the degree of Bachelor of Agricultural Science. A candidate who wishes to present EE03 Economics III (Agricultural Science) for the degree must study EE33 Economics IIIA and one half-subject from the following list:

EE4H Agricultural Economics IIIH,

EE8H Econometrics IIIH,

EE9G Economics of Antitrust and Regulation IIIH.

EE3H Economics of Labour IIIH,

EE7H Managerial Economics IIIH,

EE2H Public Finance IIIH.

ENTOMOLOGY.

WE03 Crop Protection.

A course of two lectures and one practical class each week throughout the year. Half the year is spent on Entomology and half on Plant Pathology.

ENTOMOLOGY:

The course is concerned with ecological control of insect pests, the physiological action of insecticides and an introduction to insect taxonomy and morphology. The course touches on domestic, medical and veterinary pests as well as pests of crops.

Students will be required to make a collection of 30 species of insects, representing 10 of the natural Orders, which must be submitted during the last week of lectures in third term. Collection should begin in the long vacation preceding the course and equipment may be obtained by intending students from the Entomology Department before this vacation.

Textbooks:

Imms, A. D., *Outlines of entomology*, 5th edition (Methuen).

Wigglesworth, V. B., *Insect physiology*, 6th edition (Methuen).

Reference books:

Text-books and research papers to which students can refer will be indicated during the course.

PLANT PATHOLOGY:

In the introductory lectures the nature of disease, the incidence of disease and aspects of ecological plant pathology will be considered. The remaining lectures include cultural, physical, chemical and biological control of plant diseases and plant pathogens as well as host resistance, quarantine, forecasting of disease epidemics and extension work. The practicals will be devoted to the recognition and study of fungi, nematodes, viruses and bacteria.

Reference books:

Text-books and research papers to which students can refer will be indicated during the course.

WE04 Entomology.

Pre-requisite subject: WE03 Crop Protection.

A course of three lectures and eight hours practical work a week (two periods of four hours) on a more detailed study of:

- (1) Insect morphology and taxonomy, with practice in the classification of insects to families; the study of particular species of economic importance.
- (2) Insect biochemistry, physiology and behaviour.
- (3) Insect ecology.
- (4) Selected topics including e.g. insect pathology, forest entomology, and apiculture.

Students will be required to make a collection of insects, properly mounted and identified, illustrating the morphological and taxonomic features of insects. The collection may be commenced in the long vacation preceding the course. Equipment may be collected by intending students from the Entomology Department before the vacation. The collection must be submitted in the last week of the final term.

Text-book:

Australia, C.S.I.R.O., *The insects of Australia* (M.U.P.).

HONOURS DEGREE.

WE99 Honours Entomology.

Students who wish to take the Honours degree in Entomology should consult the Chairman of the Department of Entomology some time during their final year.

Candidates are expected to attain a higher standard in general Entomology than that required for the Ordinary degree. In addition, they are required to study more intensively some branch of Entomology and to carry out a research project in that field.

Candidates may be required to attend such lectures and to pass such examinations as the Chairman of the Department may require. All time not necessarily devoted to lectures and set work must be spent in the laboratory.

A course of reading will be prescribed by the Chairman of the Department and should be commenced in the long vacation prior to the Honours year.

Candidates must have some reading knowledge of French and German and may be required to attend courses and pass examinations in these subjects.

GENETICS.

HONOURS DEGREE.

SJ79 Honours Genetics (B.Ag.Sc.).

A candidate for the degree will be required to pass such examinations on the chosen subject of study as may be prescribed by the Chairman of the Department, and to submit a thesis reporting research work undertaken during the year.

A candidate may also be required to attend lectures and pass examinations in related subjects and to satisfy the Chairman of the Department that he has a reading knowledge of one or more modern languages other than English. University time not devoted to lectures must be spent in activities approved by the Chairman of the Department. Intending candidates should consult the Chairman of the Department and should be prepared to begin studies on or about 1 February.

PLANT PATHOLOGY.

WP03 Agricultural Microbiology.

A course of one lecture and one practical a week throughout the year.

An introduction to micro-organisms; their morphology, physiology, ecology and general classification; the techniques used in the study of micro-organisms; the occurrence of micro-organisms in soil, air and water; their importance in agriculture and industry; the microbiology of foods.

WP04 Plant Pathology.

Pre-requisite subjects: WE03 Crop Protection and WP03 Agricultural Microbiology.

A course of three lectures and eight hours of practical work a week for three terms covering:

The morphology, taxonomy and physiology of fungi, nematodes, viruses and bacteria; infection of and proliferation in the host plant by pathogens; the resistance and tolerance of plants to disease; the behaviour and characteristics of pathogens prior to penetration of the host; ecological plant pathology; control of pathogens and disease in plants; the dispersal of pathogens. In the third term the practical classes will be devoted to an epidemiological project in the field.

Reference books:

Text-books and research papers to which students can refer will be indicated during the course.

HONOURS DEGREE.

WP99 Honours Plant Pathology.

A candidate for the degree will be required to pass such examinations on the chosen subject of study as may be prescribed by the Chairman of the Department, and to submit a thesis reporting research work undertaken during the year.

A candidate may also be required to attend lectures and pass examinations in related subjects and to satisfy the Chairman of the Department that he has a reading knowledge of one or more modern languages other than English. University time not devoted to lectures must be spent in activities approved by the Chairman of the Department. Intending candidates should consult the Chairman of the Department and should be prepared to begin studies on or about 1 February.

PLANT PHYSIOLOGY.

WF03 Crop Physiology.

This course consists of two lectures and three hours practical work a week for three terms and covers:

Effects of external environment, including temperature, light, water and atmospheric conditions on the determination of plant size, form and development; the growth patterns of selected crop plants.

The interaction of internal and environmental factors in the physiological control of dormancy, germination, vegetative growth (roots, leaves, stem), accumulation of storage substances, and sexual reproduction (floral initiation, seed set, fruit growth).

The course will use crop species as examples where appropriate.

Attention will be given to critical assessment of published information, presentation of such assessments and the undertaking of a short experimental project.

Text-book:

Leopold. A. C., and Kriedmann, P. E., *Plant growth and development* (McGraw-Hill).

WF04 Horticultural Science.

Pre-requisite subject: WF03 Crop Physiology.

A course consisting of four lectures and four hours of practical work a week for three terms. Lectures, practical work, demonstrations and field trips will cover:

The growth of fruit trees, mechanisms controlling growth, the uses of growth regulators in horticulture.

The water requirements of crops, methods of irrigation and drainage.

Mineral nutrition, fertilisers and soil management.

Movement and accumulation of substances in plants, reserves.

Bud development and bearing habit, propagation principles and methods, root-stocks, pruning and training.

Flower and fruit morphogenesis, mechanisms of floral initiation, fruit setting and fruit growth, and practices involved.

Ripening of fruits, harvesting, post-harvest physiology, storage, marketing and processing of fruits.

Horticultural production and establishment, varieties, protection, frost.

The culture of important horticultural crops.

Attention will be given to training and experience in experimental method, reading, writing and speaking. Opportunity will be given for a project of individual study involving literature revision and limited original investigation.

Text-book:

Westwood, M. N., *Temperate-zone pomology* (Freeman).

HONOURS DEGREE.

WF89 Honours Plant Physiology.

WF99 Honours Horticultural Physiology.

A candidate for the degree will be required to pass such examinations on the chosen subject of study as may be prescribed by the Chairman of the Department, and to submit a thesis reporting research work undertaken during the year.

A candidate may also be required to attend lectures and pass examinations in related subjects and to satisfy the Chairman of the Department that he has a reading knowledge of one or more modern languages other than English. University time not devoted to lectures must be spent in activities approved by the Chairman of the Department. Intending candidates should consult the Chairman of the Department and should be prepared to begin studies on or about 1 February.

SOIL SCIENCE.

WS03 Soil Science I.

Pre-requisite subject; SC01 Chemistry I.

A course of two hours of lectures and three hours of practical work a week for three terms. The aim of the course is to provide a general background in soil science with a strong bias towards aspects relevant to agriculture.

The topics considered include:

1. SOIL COMPONENTS:

Composition of inorganic and organic fractions of soils; clay mineralogy; soil biology.

2. CHEMISTRY OF PLANT NUTRIENTS:

Chemistry of soil in relation to soil fertility and fertiliser use; nitrogen, phosphorus, potassium and the trace elements; soil reaction; concepts of nutrient availability.

3. SOIL PHYSICS:

Energy and movement of water; irrigation and drainage; soil heat; evaporation; salinity and miscible displacement; aeration; water and wind erosion.

Practical work will consist of a number of field excursions, and laboratory work related to the above topics.

Text-books:

Fried, M., and Broeshart, H., *The soil plant system in relation to inorganic nutrition* (Academic Press).

Hillel, D., *Soil and water* (Academic Press).

Marshall, T. J., and Holmes, J. W., *Soil physics* (C.U.P.).

Russell, E. W., *Soil conditions and plant growth*, 10th edition (Longmans).

WS04 Soil Science II.

Pre-requisite subject: A good pass in WS03 Soil Science I. Completion of SC12 Chemistry II would be an advantage.

A course of three hours lectures and eight hours of practical work a week for three terms, devoted to fundamental studies of the biology, biochemistry, chemistry and physics of the soil. The major topics considered are:

1. COLLOID AND SURFACE CHEMISTRY:

Genesis and composition of clay minerals in different soil types. Reactions of water, ions and polymers at the surfaces of colloidal particles and the influence of these reactions on the physical and chemical properties of soils. Diffusion of ions in soils and the chemistry of nutrient uptake by plants.

2. BIOLOGY AND BIOCHEMISTRY:

Chemistry of organic colloids in soils. The cycling of carbon, and organically bound nutrients in soils, ^{14}C and ^{15}N studies. Soil biomass; definitions, determination and functions. Enzymes in soils. The biology and chemistry of the rhizosphere.

3. SOIL PHYSICS:

Soil structure: methods for measuring distributions of particles, pores and cracks. Agricultural soil mechanics: interactions between soil and wheels, tillage implements and plant roots. Mechanics and physics of swelling clays.

Practical work will be related to the above topics and will include a research project. In addition to those books recommended for WS03 Soil Science I the following are recommended:

Text-books:

Bolt, G. H., and Bruggenwert, M. G. M., *Soil chemistry, part A* (Elsevier).

Buol, S. W., and others, *Soil genesis and classification* (Iowa State U.P.).

McLaren, A. D., and Peterson, S.H., *Soil biochemistry* (Marcel Dekker).

Yong, R. N., and Warkentin, P. P., *Soil properties and behaviour* (Elsevier).

Further references will be supplied during lectures.

HONOURS DEGREE.

WS99 Honours Soil Science.

Pre-requisite subject: A good pass in WS04 Soil Science II. Students wishing to take the Honours degree in Soil Science should consult the Chairman of the Department during the third term of their final year of the B.Ag.Sc. Ordinary degree.

Candidates will be required to attend tutorials and to prepare seminars on selected topics. A research project will be assigned to each candidate, who will be required to present the results in a short thesis at the end of the course. Examination papers will also be set. Candidates should have or be prepared to obtain a reading knowledge of a modern, foreign language. Candidates are expected to begin studies on 1 February.

PRACTICAL EXPERIENCE

(FOR THE DEGREE OF BACHELOR OF AGRICULTURAL SCIENCE)

Candidates for the degree of Bachelor of Agricultural Science are required to obtain practical agricultural experience as laid down in the regulations and schedules.

In addition, students in Agricultural Science are required to attend organised tours of various agricultural areas of South Australia.

OF THE DEGREE OF
MASTER OF AGRICULTURE
REGULATIONS

1. There shall be a degree of Master of Agriculture.
2. The following may be accepted as a candidate for the degree:
 - (a) a person who has qualified in the University of Adelaide for the Honours degree of Bachelor of Agricultural Science; or
 - (b) a person who holds in another university a qualification accepted by the Faculty of Agricultural Science as being equivalent to the Honours degree of Bachelor of Agricultural Science in the University of Adelaide; or
 - (c) a person who has qualified in the University of Adelaide for the degree of Bachelor of Agricultural Science or who holds in another university a qualification accepted by the Faculty of Agricultural Science as being equivalent to the degree of Bachelor of Agricultural Science in the University of Adelaide, and who has had at least three years of practical experience approved by the Faculty.
3. With the approval of the Council the Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under regulation 2, but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
4. A candidate shall be admitted on probation. The period of probation shall not exceed six months. At the end of the period each candidate's performance shall be reviewed by the Faculty of Agricultural Science and his candidature confirmed, with or without special conditions, or terminated.
5. If in the opinion of the Faculty of Agricultural Science, a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.
6. To qualify for the degree a candidate shall:
 - (a) on completion of any preliminary work which may be prescribed in the schedules and after consultation with the Chairman of the department of which his supervisor or senior supervisor is a member, submit in writing to the Academic Registrar, for approval by the Faculty, the programme of advanced study and project work as prescribed in the schedules and designed to extend over one calendar year;
 - (b) undertake an approved programme of advanced study and project work under the direction of a supervisor or supervisors who shall be members of the academic staff of the University and appointed by the Faculty, but the Faculty may also appoint an external supervisor;
 - (c) pass such examinations on his course of advanced study as may be required by the Faculty; and
 - (d) present a dissertation embodying the results of his project work.
7. (a) Except by permission of the Faculty, the whole of the work for the degree must be completed within the University.
 - (b) Subject to such conditions as it may determine in each case, the Faculty may permit project work to be undertaken outside the University provided that it can be satisfied:
 - (i) that this will result in academic benefit to the candidate;
 - (ii) that there will be adequate contact and interaction between the candidate and his internal supervisor(s);
 - (iii) that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.

8. (a) On completion of his work the candidate shall lodge with the Academic Registrar three copies of his dissertation prepared in accordance with directions given to candidates from time to time.

(b) Unless the Faculty expressly approve an extension of time in a particular case the dissertation shall be submitted within eighteen months of the date of enrolment.

(c) On the submission or re-submission of the dissertation the Faculty shall nominate examiners who may recommend that it :

(i) be accepted subject to such amendments as the examiners may have suggested;
or

(ii) be accepted subject to satisfactory oral examination; or

(iii) be not accepted but be sent back to the candidate for revision and re-submission;
or

(iv) be rejected.

9. A candidate who fulfils the requirements of these regulations and satisfies the examiners shall, on the recommendation of the Faculty, be admitted to the degree of Master of Agriculture.

Regulations awaiting allowance.

OF THE DEGREE OF
MASTER OF AGRICULTURE
SCHEDULES

SCHEDULE I: PRELIMINARY WORK

1. A person whose qualifications have been accepted under either section (a) or section (b) of regulation 2 shall be deemed to have satisfied the requirements of this schedule.
2. Before being admitted either under section (c) of regulation 2 or under regulation 3 a person shall complete the requirements of this schedule by undertaking, and satisfying the examiners in, such courses of study and/or other work as may in his case be prescribed by the Faculty of Agricultural Science.

SCHEDULE II: COURSES OF STUDY AND PROJECT WORK

The programme of study and project work shall consist of:

- (a) supervised project work which shall be approximately one-third of the work for the degree;
- (b) graduate courses and seminars and such other relevant courses as may be prescribed by the Faculty of Agricultural Science, which shall make up approximately two-thirds of the work for the degree.

OF THE DEGREE OF
MASTER OF AGRICULTURE
SYLLABUSES

Text-books:

Students are expected to procure the latest edition of all text-books prescribed.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

MASTER OF AGRICULTURE.

This degree is awarded on the satisfactory completion of a programme of work, normally undertaken within the University, designed to extend over either one calendar year if taken full-time, or not less than two and not more than five calendar years if taken part-time. It will involve supervised project work, and advanced study. A dissertation embodying the results of the project work shall be submitted within six months of the completion of the candidate's programme.

PEST MANAGEMENT.

A course in pest management, consisting of the following two subjects, will be offered according to demand:

WE05 Course Work in Pest Management.

1. Biomathematics and methodology of sampling.
2. Agricultural chemicals.
3. Measurement and analysis of components of the environment.
4. Entomology.
5. Plant pathology.
6. Plant phenology: interaction of plants with pests and disease organisms.
7. Insect pathology.
8. Weeds.
9. Population dynamics and methodology of biological control.
10. Integrated control.
11. Quarantine.

WE06 Project Work in Pest Management.

A supervised project, of about 3 to 4 months, will be decided upon for each candidate, in consultation with the lecturers, preferably before commencement of the course and certainly by half-way through the year. The project will be chosen to be as close as possible to any specific interests of the candidate (or, for example, his employing organisation).

OF THE DEGREE OF

MASTER OF AGRICULTURAL SCIENCE

REGULATIONS

1. (a) Subject in each case to the applicant's academic qualifications being accepted by the Faculty of Agricultural Science as sufficient, the following persons may become candidates for the degree of Master of Agricultural Science: (i) Bachelors of Agricultural Science; (ii) other graduates.

(b) Subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.

2. A candidate who holds the Honours degree of Bachelor of Agricultural Science or its equivalent in a university recognised by the University of Adelaide may proceed to the degree of Master of Agricultural Science at the expiration of one year from the date of his admission to the Honours degree of Bachelor: no other candidate shall proceed to the degree before the expiration of two years from the date of the beginning of his candidature.

3. Subject to conditions to be determined in each case, a graduate of a university recognised by the University of Adelaide may be allowed by the Council to proceed to the degree in compliance with these regulations. Every such candidate must spend at least three consecutive academic terms or twelve calendar months at the University of Adelaide or at an institution approved for the purpose by the University of Adelaide.

4. (a) Unless a candidate has completed one year of full-time study beyond that prescribed for the Ordinary degree, and has obtained an Honours degree at the University or at another university recognised for the purpose, he shall spend a qualifying period, the length of which shall be prescribed by the Faculty on the recommendation of the department concerned, on supervised study or research before he is permitted to continue with his candidature. Such qualifying period shall date from a time recommended by the department concerned and approved by the Faculty.

(b) On completion of such qualifying period as may be prescribed under (a) above, the candidate's progress will be reviewed by the Faculty after departmental assessment based on (i) written examination at Honours level or (ii) satisfactory progress with a research programme or (iii) both. The Faculty may then permit the candidate to continue his candidature or may grant him permission to transfer his candidature to that for another degree or may terminate his candidature.

5. The Faculty of Agricultural Science shall annually review the progress of candidates for the degree. If in the opinion of the Faculty a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.

Before making a recommendation for termination of candidature to the Council the Faculty shall notify the candidate of its intention so to do and shall permit him to offer within one month such explanation as he can for his lack of satisfactory progress. If, notwithstanding any submission made by the candidate, the Faculty decides to recommend termination of his candidature, the candidate shall be informed accordingly and shall have the right of appeal within one month to the Council and any such appeal shall be considered by the Council at the same time as it considers the Faculty's recommendation.

6. To qualify for the degree a candidate shall submit a thesis upon an approved subject and shall adduce sufficient evidence that the thesis is his own work. The thesis shall give the results of original research or of an investigation on which the candidate has been engaged. A candidate may also submit other contributions in Agricultural Science in support of his candidature.

7. Every candidate shall give at least three terms' notice of his intended candidature, and shall indicate therewith in general terms the subject of the research work or investigation on which he proposes to submit a thesis. The Faculty of Agricultural Science, if it approve the subject of his research, may appoint a supervisor to guide the candidate in his work. The candidate shall submit his thesis not earlier than **three terms** and, except by **special permission of the Faculty**, not later than **nine** terms after approval by the Faculty of the subject of his research.

8. The Faculty shall appoint a Board of Examiners to report upon the thesis and any supporting papers that the candidate may submit. The Board of Examiners may require any candidate to pass an examination in the branch of science to which his original research or investigation is cognate.

9. On completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

10. A candidate who complies with the foregoing conditions and satisfies the Board of Examiners shall, on the recommendation of the Faculty of Agricultural Science, be admitted to the degree of Master of Agricultural Science.

Regulations allowed 14 December, 1950.

Amended: 16 Mar. 1961: 1,9; 4 Oct. 1962: 1,7; 21 Dec. 1972: 4; 28 Feb. 1974: 2; 23 Jan. 1975: 5; 15 Jan. 1976: 9.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

FACULTY OF ARCHITECTURE AND PLANNING

NOTE: Students enrolling for the first time in 1981 will be admitted to the three-year course for the degree of Bachelor of Architectural Studies. The first year of the professional degree of Bachelor of Architecture (New Course) will also be available, for applicants holding a suitable first degree.

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

| | |
|---|-----|
| Bachelor of Architectural Studies (B.Arch.St.) | |
| Regulations..... | 450 |
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| Syllabuses..... | 481 |
| Master of Architecture (M.Arch.) | |
| Regulations..... | 488 |
| Doctor of Philosophy (Ph.D.) | |
| Regulations and Schedules: under "Board of Research Studies"— see Table of Contents. | |

OF THE DEGREE OF

BACHELOR OF ARCHITECTURAL STUDIES

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Architectural Studies. A candidate may obtain either degree or both.

2. The course of study for the Ordinary degree shall extend over three academic years, and that for the Honours degree over four academic years, of full-time study or the equivalent.

3. (a) In these regulations, and in the schedules made under them, the following definitions shall apply:

“Subject” means a course of study at the University normally extending over one academic year.

“Half-subject” means a course of study normally extending over one half of an academic year or a full academic year but equivalent in academic weight to only one half of a full subject.

Unless the context clearly indicates otherwise the word “subject” elsewhere in these regulations and the schedules made under them includes “half-subject”.

(b) The Council, after receipt of advice from the Faculty of Architecture and Planning, shall from time to time prescribe schedules defining:

(i) the subjects of study for the degree;

(ii) the range of subjects to be satisfactorily completed and the examinations to be passed by candidates.

(c) Such schedules shall become effective from the date of prescription by the Council or such other date as the Council may determine.

(d) The syllabuses of subjects shall be specified by the chairman of the department concerned and submitted to the Faculty and Council for approval.

(e) Schedules made and syllabuses approved by the Council shall be published in the next edition of the University Calendar.

4. To qualify for the Ordinary degree a candidate shall comply with the provisions of the schedules.

5. Except by permission of the Faculty, a candidate shall not enrol in any subject for which the pre-requisite studies as prescribed in the syllabus for that subject have not been satisfactorily completed.

6. (a) Candidates shall enter for annual and supplementary examinations on the forms and by the dates prescribed by the Council.

(b) A candidate shall not be eligible for final assessment until the requirements prescribed in the schedules have been satisfactorily completed.

7. There shall be three classifications of pass in any subject for the Ordinary degree, as follows:

- Pass with Distinction
- Pass with Credit
- Pass

The names of the candidates in each of the classifications shall be published as prescribed in the schedules. The list of candidates who pass may be published in two divisions, Division I and Division II, in which case a Division I pass may be prescribed in the syllabuses as pre-requisite for enrolment in another subject.

8. In determining a candidate's final result in a subject the examiners may take into account assessments of the candidate's oral, written or practical work, or examinations in that subject provided that the candidate has been given notice at the beginning of the academic year of the way in which such assessments will be taken into account and of their relative importance in the final result.

9. A candidate who fails to pass in a subject or who obtains a Division II pass and who desires to take the subject again shall, unless granted exemption wholly or partially therefrom by the chairman of the department concerned, satisfactorily complete such written and laboratory or other work in that subject as may be prescribed.

10. A candidate may be granted a supplementary examination in a subject only in circumstances approved by the Faculty and in accordance with the policy determined by the Faculty from time to time.

11. (a) A candidate who has twice failed to pass the annual examination, which for this purpose shall include any supplementary examination, in any subject, may not enrol for that subject again except by permission of the Faculty, and then only in accordance with such conditions as the Faculty may prescribe.

(b) A candidate who is not granted permission to sit for an examination, or who fails to attend all or part of an annual examination (or a supplementary examination if granted) after having attended substantially the full course of instruction in that year, shall be deemed to have failed to pass the examination.

(c) A candidate who obtains a Division I pass or higher in a subject only after being granted permission to enrol for the third time in that subject may not enrol for any subject for which that Division I pass or higher is pre-requisite save in exceptional circumstances and with the permission of the Faculty.

12. (a) A candidate who has passed subjects for the degree of Bachelor of Architecture or subjects in other faculties or in other institutions or who has other qualifications may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

(b) A graduate of the University or of another institution who wishes to proceed to the degree of Bachelor of Architectural Studies:

- (i) shall present a range of subjects which fulfils in all respects the requirements of the schedules;
- (ii) shall not be granted status in or exemption from any third-year subject prescribed in the schedules, or in any Honours subject;
- (iii) may count towards the degree not more than four subjects or their equivalent which have already been presented, or in which status has been granted, for another degree.

13. To qualify for the Honours degree a candidate shall comply with the provisions of the schedules.

14. The names of the candidates who qualify for the award of the Honours degree shall be published in accordance with the provisions of the schedules within the following classes and divisions:

- First Class
- Second Class
 - Division A
 - Division B
- Third Class

15. (a) A candidate who fails to complete the work for the Honours degree within the time allowed or whose work is unsatisfactory, or who withdraws from the Honours course shall be reported to the Faculty of Architecture and Planning, which may permit re-enrolment for the Honours degree, subject to such conditions as it may determine.

(b) Enrolment for a second time for the Honours degree in a subject is not permissible if the candidate:

- (i) has already qualified for Honours in that subject; or
- (ii) has, after presentation for examination in that subject, failed to obtain Honours;

or

(iii) has withdrawn from the Honours course unless the Faculty of Architecture and Planning under regulation 15(a) permits re-enrolment.

Regulations allowed 31 January, 1980.

OF THE DEGREE OF
**BACHELOR OF ARCHITECTURAL
STUDIES**

SCHEDULES

(Made by the Council under regulation 3.)

(The Council, in making these schedules under regulation 3, determined that they become effective on 1 January, 1980).

NOTE: Syllabuses of subjects for the degree of B.Arch.St. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: SUBJECTS OF STUDY

The following subjects have been approved by the Faculty of Architecture and Planning as subjects of study for the Ordinary degree.

Guide-lines and advice on the selection of acceptable combinations of subjects (including pre-requisite subjects where appropriate) are available in the Department of Architecture.

Subjects offered by other faculties but not listed below may possibly be available on application and subject to the recommendation of the Chairman of the Department of Architecture, the department concerned, and the approval of the Faculty of Architecture and Planning.

FIRST YEAR SUBJECTS AND HALF-SUBJECTS

Architectural Studies subjects

RS31 Art History and Theories
RS01 Building Studies I
RS11 Design Studies I

RS21 History and Theories of
Architecture I

RS41 Visual Communication

Arts subjects

EC01 Accounting I
AA01 Anthropology I
AQ01 Chinese I
AC31 Classical Studies I
UA11 Drama I
AJ71 Economic Geography I
EE01 Economics I
AE01 English I
AF01 French I
AF11 French IA
AJ01 Geography I
AG01 German I
AG11 German IA
AC11 Greek I

AC71 Greek IA
AH01 History IA
AH31 History IB
AQ51 Introduction to Japanese Literature I
AQ21 Japanese I
AQ31 Japanese IA
AC01 Latin I
AC41 Latin IA
UA51 Music I
UA61 Music IA
AP11 Politics IA
AP21 Politics IB
AY01 Psychology I
EE71 Social Economics I

Arts half-subjects

EE4F Economic History IH
EE5F Economic Institutions and
Policy IH
AJ2H Human Geography IH
AL2H Logic IH
EE1G Macroeconomics IH*
EE2F Mathematical Economics IH

EE1F Mathematics for Economists IH
EE2G Microeconomics IH*
AL1H Philosophy IH(A)
AL3H Philosophy IH(B)
AJ1H Physical Geography IH
SP9H Physics, Man and Society IH

* The half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH are available only to students who have passed one of these half-subjects prior to 1981.

NX21 Engineering IA

Engineering subjects

NX31 Engineering IB

QM01 Mathematics I

Mathematical Sciences subject

QA7H Computing IH

Mathematical Sciences half-subjects

QT7H Statistics IH

SZ71 Biology I
SC01 Chemistry I
SG01 Geology I

Science subjects

QM11 Mathematics IM
SP01 Physics I

SP8H Astronomy IH
SB6H Botany IH
SB5H Environmental Biology IH

Science half-subjects

SJ7H Genetics and Human Variation IH
QM7H Mathematics IH

SECOND YEAR SUBJECTS AND HALF-SUBJECTS

RS12 Design Studies II

Architectural Studies subjects

RS22 History and Theories of
Architecture II

RS92 Urban and Landscape Design
Studies II

RS0H Building Studies IIH
RS1H Building Construction IIH
RS2H Building Science IIH
NR1H Building Structures IIH

Architectural Studies half-subjects

RS5H Computer Methods in
Architecture IIH
RS4H Design Studies IIH

AC72 Ancient History II
AA02 Anthropology IIA
AA12 Anthropology IIB
AA22 Anthropology IIC
AQ42 Asian Civilisations: Past and
Present II

Arts subjects

AG12 German IIA
AG87 German IIB
AC12 Greek II
AC82 Greek IIA
AC77 Greek IIS
AC92 Classical Art and Archaeology II
AH02 History IIA
AH22 History IIB
AQ52 Introduction to Japanese
Literature II

AQ02 Chinese II
AC32 Classical Studies II
UA12 Drama II
EE22 Economic Statistics II
EE32 Economic Statistics IIA
AE02 English II
AE22 English IIB
AE32 English IIC
AF02 French II
AF12 French IIA
AF72 French IIB
AJ12 Geography IIA
AJ22 Geography IIB
AG02 German II

AQ22 Japanese II
AC02 Latin II
AC42 Latin IIA
AC57 Latin IIS
AL22 Logic II
UA52 Music II
AE87 Old and Middle English II
AL02 Philosophy II
AP32 Politics IIA
AP42 Politics IIB
AY02 Psychology II

EE6F Economic History IIH(A)
EE7F Economic History IIH(B)
AJ7H Geography IIH

Arts half-subjects

EE3G Macroeconomics IIH
EE3F Mathematical Economics IIH
EE4G Microeconomics IIH

QN22 Applied Mathematics IIA
QN12 Applied Mathematics IIB
QA02 Computing Science II

Mathematical Sciences subjects

QA12 Computing Science IIC
QT02 Mathematical Statistics II
QM02 Pure Mathematics II

Science subjects

| | |
|----------------------|---|
| SY02 Biochemistry II | SK32 Microbiology and Immunology II |
| SB02 Botany II | SO02 Organic Chemistry II |
| SC12 Chemistry II | SC02 Physical and Inorganic Chemistry II |
| SC22 Chemistry IIE | SP02 Physics II |
| SJ02 Genetics II | SS02 Physiology II |
| SG02 Geology II | SZ02 Zoology II |
| SG72 Geophysics II | |

THIRD YEAR SUBJECTS AND HALF-SUBJECTS

Architectural Studies subjects

| | |
|--|--|
| RS63 Building Science III | RS23 History and Theories of Architecture III |
| NR23 Building Structures III | RS93 Urban and Landscape Design Studies III |
| RS13 Design and Building Studies III | NR13 Water Management in Architecture |
| RS83 Computer Methods in Architecture III | |

Arts subjects

| | |
|--|---------------------------------|
| AC73 Ancient History III | AG03 German III |
| AA03 Anthropology IIIA | AG88 German IIIB |
| AA13 Anthropology IIIB | AC13 Greek III |
| AA23 Anthropology IIIC | AC78 Greek IIIS |
| AA33 Anthropology IIID | AH03 History IIIA |
| AQ03 Chinese III | AH13 History IIIB |
| AC93 Classical Art and Archaeology III | AQ23 Japanese III |
| AC33 Classical Studies III | AC03 Latin III |
| AQ43 Asian Development III | AC67 Latin IIIS |
| EE73 Economic Development Studies III | AL23 Logic III |
| EE03 Economics III (Arts)† | AE88 Old and Middle English III |
| AE03 English IIIA | AL03 Philosophy IIIA |
| AE13 English IIIB | AL13 Philosophy IIIB |
| AF03 French III | AP03 Politics IIIA |
| AF88 French IIIB | AP13 Politics IIIB |
| AJ13 Geography IIIA | AY23 Psychology III |
| AJ23 Geography IIIB | |

Arts half-subjects

| | |
|--------------------------------|--------------------------|
| AJ8H Geography IIIB | AY1H Psychology IIIB(A) |
| AL4H Philosophy IIIB* | AY2H Psychology IIIB(B) |
| AP1H Political Sociology IIIB* | SJ3H Social Biology IIIB |

Mathematical Sciences subjects

| | |
|-------------------------------|----------------------------------|
| QN03 Applied Mathematics III | QF13 Mathematical Physics III |
| QN13 Applied Mathematics IIIA | QT03 Mathematical Statistics III |
| QA03 Computing Science III | QM03 Pure Mathematics III |
| QA13 Computing Science IIIA | QM13 Pure Mathematics IIIA |

Science subjects

| | |
|---|---|
| MA13 Anatomy and Histology III | SO03 Organic Chemistry III |
| MA43 Anatomy and Histology IIIM | SO83 Organic Chemistry IIIM |
| SY03 Biochemistry III | MR43 Pharmacology III |
| SY83 Biochemistry IIIM | MR53 Pharmacology IIIM |
| SB03 Botany III | SC13 Physical and Inorganic Chemistry IIIB |
| SB83 Botany IIIM | SC83 Physical and Inorganic Chemistry IIIM |
| SJ03 Genetics III | SP03 Physics III |
| SG03 Geology III | SP83 Physics IIIM |
| SG83 Geology IIIM | SS03 Physiology III |
| SG23 Geology and Economic Geology IIIA | SS83 Physiology IIIM |
| SG33 Geology and Economic Geology IIIB | QF03 Theoretical Physics III |
| SG73 Geophysics III | SZ03 Zoology III |
| SK03 Microbiology and Immunology III | SZ83 Zoology IIIM |

† See syllabus in Faculty of Arts for special requirements.

* These half-subjects may only be taken with SJ3H Social Biology IIIB.

SUBJECTS FROM OTHER INSTITUTIONS

Such subjects provided by other institutions as may be approved from time to time by the Council on the recommendation of the Faculty of Architecture and Planning.

In 1981 these are:

Social Ecology I and II (S.A. Institute of Technology)
Visual Arts I (Flinders University)

SCHEDULE II: THE ORDINARY DEGREE

1. A CANDIDATE FOR THE ORDINARY DEGREE SHALL ATTEND COURSES AND SATISFY EXAMINERS IN NINE SUBJECTS OR THE EQUIVALENT, AS FOLLOWS:

First-year subjects

RS01 Building Studies I
RS11 Design Studies I
One first-year subject or the equivalent from schedule I
One first-year subject or the equivalent from schedule I, other than an Architectural Studies subject

Second-year subjects

RS0H Building Studies IIH
RS12 Design Studies II
One second-year subject and one second-year half-subject or the equivalent from schedule I

Third-year subjects

RS13 Design and Building Studies III
One third-year subject or the equivalent from schedule I

2. DISTRIBUTION OF SUBJECTS BY YEARS

The distribution of subjects by years shall be 4 first-year, 3 second-year and 2 third-year subjects or their equivalent. Prior permission of the Faculty obtained after written application to the Academic Registrar, is required for any other combination.

3. APPROVAL OF SUBJECTS

Courses of study must be approved by the Dean of the Faculty of Architecture and Planning (or nominee) at enrolment each year.

In the first year of enrolment, a full-time candidate for the degree must enrol in the subjects RS01 Building Studies I and RS11 Design Studies I, and a part-time candidate must enrol in at least one of those subjects.

A candidate may not enrol in any combination of second year subjects that does not include subjects RS0H Building Studies IIH and RS12 Design Studies II or any combination of third year subjects that does not include subject RS13 Design and Building Studies III unless such subjects have been previously satisfactorily completed.

A candidate may not:

- (a) enrol in subject RS0H Building Studies IIH until subject RS01 Building Studies I has been satisfactorily completed and passed;
- (b) enrol in subject RS12 Design Studies II until subject RS11 Design Studies I has been satisfactorily completed and passed;
- (c) enrol in subject RS13 Design and Building Studies III until subjects RS0H Building Studies IIH and RS12 Design Studies II have been satisfactorily completed and passed.

4. EXEMPTIONS

- (a) Exemption from or status in any third-year subject will not normally be granted.
- (b) Exemption from any part of a subject on the first occasion on which a candidate enrolls for that subject may be granted only in special cases and on grounds approved by the Faculty.

5. PASS LISTS

The names of the candidates who pass in any subject shall be published in order of merit in the classifications Pass with Distinction and Pass with Credit and in alphabetical order in each of two divisions of the classification Pass.

6. UNACCEPTABLE COMBINATIONS OF SUBJECTS[†]

- (a) No candidate will be permitted to count for the degree any subject, together with any other subject, which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject may be counted twice towards the degree.
- (b) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

[†] The restrictions contained within clauses 3, 4 and 5 of schedule 1 of the degree of Bachelor of Arts (*see* Table of Contents) shall apply to candidates enrolled for the degree of Bachelor of Architectural Studies.

SCHEDULE III: THE HONOURS DEGREE

A candidate who wishes to proceed to the Honours degree must, before enrolment, obtain the approval of the Chairman of the Department of Architecture.

A candidate for the Honours degree shall attend classes regularly and pass examinations in the subject RS99 Honours Architectural Studies* which shall be a combination of two such parts of subjects as may be approved from time to time by the Faculty of Architecture and Planning.

A candidate may, subject to the approval of the Faculty of Architecture and Planning in each case, include in the combined subject RS99, part of a subject taught in a department in another faculty; such candidates must consult the chairman of the department concerned and apply in writing by 30 November of the year preceding the proposed Honours year, to the Academic Registrar seeking the approval of the Chairman of the Department of Architecture.

The work of the Honours year may not be commenced before a candidate is qualified for the Ordinary degree; and must be completed in one year of full-time study, save that on the recommendation of the Chairman of the Department, the Faculty may permit a candidate to spread the work over two years but not more, under such conditions as the Faculty may determine.

The names of the candidates who are awarded honours shall be published in alphabetical order as appropriate in the prescribed classes and divisions.

*Information on the approved subjects from which the prescribed combination may be chosen shall be advised in the preceding year by the Department of Architecture.

The subjects to be offered in a particular year will depend upon the availability of staff.

OF THE DEGREE OF
**BACHELOR OF ARCHITECTURAL
STUDIES**
SYLLABUSES

Text-books:

Students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought. Books marked* are available in paperback editions.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the Department of Architecture. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

FIRST-YEAR COMPULSORY SUBJECTS.

RS01 Building Studies I.

This is a full subject in the year when a student normally undertakes four subjects, it is therefore equivalent to one-quarter of the student's load.

There are two 1-hour lectures a week, and two other hours, divided between laboratory and tutorial sessions. Occasional site visits will be arranged.

Following a two week introduction to the subject, entitled **Building Performance**, the following six topics are covered over the three terms:

1. ENVIRONMENT AND BUILDINGS (Building Science lecturers).

The building as a filter of external environment. Climatic zones, solar radiation, sunlight and daylight, wind, rain and damp, soil conditions, intrusions such as noise. Performance criteria. Units of measurement.

2. THE BUILDING INDUSTRY: PEOPLE AND COMMUNICATION (Building Construction lecturers).

Owners, financiers, developers. Main contractors, sub-contractors, trades. Professional consultants. Their roles considered, as in the past and today. The nature of production drawings, specifications, bills of quantities, estimates, tenders and contracts.

3. PRODUCTION OF BUILDINGS: EVENTS, PROCESSES, COSTS (Building Construction lecturers).

Order of work on the site, and associated builders' plant. Building systems. Workshops and factories. Factory production of component parts, and the involvement of standardisation—in components, materials, fittings and equipment. Characteristic times taken and distribution of costs. Life-time costs in buildings.

4. **STRUCTURES: INTRODUCTION (Civil Engineering lecturers).**

The nature, function and form of building structures. Some of the historical development of structures to show the influence of materials. Loads on structures, and the behaviour of materials under load.

5. **STRUCTURES: BASIC CONCEPTS (Civil Engineering lecturers).**

Stress and strain. Modes of failure (limit states), including instability and factors of safety. Equilibrium of forces, force resultants, support reactions.

6. **STRUCTURES: FURTHER CONCEPTS (Civil Engineering lecturers).**

Forces in structural members, including simple trusses. Design of axially loaded members.

In **Structures**, tutorial and laboratory classes will be used to demonstrate how materials behave under different types of loading; to verify experimentally the principles of equilibrium; and to apply the basic principles developed in lectures to solve structural problems numerically.

Text-books:

*Gordon, J. E., *Structures, or why things don't fall down* (Pelican paperback, or Plenum).

"A witty yet highly informative account of the general principles which underlie all structures."

Harper, D. R., *Building. The process and the product* (Construction Press).

Hutton, J., *Building and construction in Australia* (Cheshire).

Konya, A., *Design primer for hot climates* (Architectural Press).

*Hodgkinson, A. (ed.), *A. J. Handbook of building structures* (Architectural Press).

OR

*Cowan, H. J., *Architectural structures*, (Metric edition) (Pitman); OR

*Morgan, W., *The elements of structure*, I. Buckle (ed.) (Pitman)

RS11 Design Studies I.

The Nature of Design, and the factors inherent in the design process: purpose, users, materials and methods, economy, symbolism and aesthetics.

Architectural Design considered in relation to other acts of design, as varied as landscape, industrial, engineering or graphic design, an advertising campaign or choreography.

Design (many kinds) considered in relation to art, craft and invention. (These comparisons are to explore the ways in which Design is distinguishable from the others. The evolution of definitions brings greater clarity about each.)

After exposing the range and nature of the topic, certain problem notions well known to designers will be examined; e.g. the notion of functionalism; the relating of art, craft and design (Bauhaus); the controlling of forms with systems (classical proportions, Gothic geometry, Corbusier's modular).

Text-books:

*Grillo, P. J., *Form, function and design* (Dover, f.p. 1960 with different title) 1975.

*Papanek, V., *Design for the real world* (Paladin).

Pye, D., *The nature of design* (Studio Vista).

* Available in paperback editions.

FIRST-YEAR ELECTIVE SUBJECTS.

In addition to the following elective subjects, which are taken in the Department of Architecture, and which will be offered as staff and enrolments allow and subject to such quotas as may be imposed, electives are also available in departments in other faculties and from other institutions. Details of these electives may be obtained from the Department of Architecture. (See also schedule I.)

RS21 History and Theories of Architecture I.

Studies in history related to architecture with emphasis upon theories concerning the nature of architecture. The period 1750 to the present day will receive particular attention for its relevance to Australian history. Australian architecture itself will be the subject of one portion of the course. Other topics, such as Renaissance Architecture and Gothic Architecture, will be offered but not necessarily every year.

Text-books:

- *Banham, R., *Theory and design in the first machine age* (Architectural Press).
- Dixon, R., and Muthesius, S., *Victorian architecture* (Thames and Hudson).
- *Jencks, C., *Modern movements in architecture* (Doubleday).
- Service, A., *Edwardian architecture* (Thames and Hudson).
- *Freeland, J. M., *Architecture in Australia* (Cheshire).

RS31 Art History and Theories.

VISUAL ARTS IN THE TWENTIETH CENTURY.

The course will introduce students to some of the leading ideas and manifestations of art throughout this century. The term "visual art" is broadly understood as including film, photography, graphics, posters, performance and the arts of process and idea as well as painting, sculpture and architecture (though architecture is chiefly dealt with in another subject, RS21).

Guest Lecturers (both artists and scholars) will be invited to contribute to the topic as opportunities arise.

Text-books:

- Arnason, H. H., *A history of modern art* (Thames and Hudson).
- *Hamilton, G. H., *Painting and sculpture in Europe 1880-1940* (The Pelican History of Art). (Penguin).
- *Chipp, H. B., *Theories of modern art* (California U.P.).

RS41 Visual Communication.

Visual thinking, ideation, imagining, inventing; problem solving, pictorial narration. Visual note taking, schematics, mapping, diagrams, charts and sketching. The issue of "visual literacy" is raised, compared with numeracy and verbal literacy. This develops further, and with studio work, some of the themes raised in RS11 Design Studies I.

(It also complements the subjects RR37 Drawing and Visual Communication A and RR38 Drawing and Visual Communication B in the course for the degree of Bachelor of Architecture.)

Text-books:

- Bloomer, C. M., *Principles of visual perception* (Van Nostrand Reinhold).
- McKim, R. H., *Experiences in visual thinking* (Brooks/Cole).
- Sless, D., *Visual thinking* (University of Adelaide, SUV Radio).

* Available in paperback editions.

SECOND-YEAR COMPULSORY SUBJECTS AND HALF-SUBJECTS.

RS0H Building Studies III.

A half-subject in the year when a student normally undertakes three subjects; equivalent to one-sixth of the student's load.

There are two hours of lectures weekly, a total of twenty-six hours of laboratory and tutorial sessions and occasional tutorials and site visits.

Over three terms the following three topics are developed:

1. THE FUNCTION OF THE BUILDING FABRIC (Building Construction lecturers).

The traditional nature of large and small buildings, and alternatives which have been used or proposed. Examples of typical production documents will be displayed and discussed.

Several approaches will be used—such as functional categories (houses, offices, etc.), building components (roofs, windows, etc.) and themes (rain exclusion, insulation, etc.). Essential services in buildings will be referred to.

2. STRUCTURAL BEHAVIOUR AND THEORY, AN INTRODUCTION (Civil Engineering lecturers). (18 lectures, 18 hours laboratory and tutorials.)

Bending of beams; bending moments and shears. Stresses due to bending and shear. Bending deflection for "standard" loads. Buckling of columns. The use of timber, steel and concrete for beams of short and long span, and for columns. Structural systems for buildings: choice of forms and selection of materials; cost criteria. Fire resistance of structural members and basic structure.

(Tutorial and laboratory classes are used to demonstrate behaviour of beams made with various materials, and to apply lecture material to the design of beams.)

3. SCIENCE, BUILDING MATERIALS AND ENVIRONMENT (Building Science lecturers).

An approach to the physical behaviour of materials to give an understanding of building performance and durability. Includes matters such as corrosion, biological attack, water absorption, etc. Behaviour in fire (the building as a whole is considered). Experimental work in the laboratory will be undertaken.

Thermal lighting and acoustic factors affecting internal environments in buildings, including human physiology and thermal comfort conditions; lighting and visual conditions; elementary acoustics and noise control (including behaviour of materials).

Textbooks:

- *Burberry, P., *Environment and services* (Mitchell's building construction) (Batsford).
- *Foster, J. S., *Structure and fabric Part I* (Mitchell's building construction) (Batsford).
- *Cowan, H. J., *Architectural structures* (Metric edition) (Pitman); *OR*
- *Hodgkinson, A. (ed.), *A. J. Handbook of building structure* (Architectural Press).
- Konya, A., *Design primer for hot climates* (Architectural Press).

RS12 Design Studies II.

A full subject constituting one third of the year's work.

Circumstances surrounding the design process (especially architectural design), such as the way a brief is developed, the kinds of drawing used, constraints of economy, construction, regulations.

Architectural designers' experiences, and some of the theories and techniques examined; various approaches to design which are practised, such as emotive or analytical . . . and their consequences.

The "Design Methodology" literature and the reception it was given. Users' experiences and attitudes, and how they compare with those of the designers.

* Available in paperback editions.

SECOND-YEAR ELECTIVE SUBJECTS.

In addition to the following elective subjects, which are taken in the Department of Architecture, and which will be offered as staff and enrolments allow and subject to such quotas as may be imposed, electives are also available in departments in other faculties and from other institutions. Details of these electives may be obtained from the Department of Architecture. (See also schedule I.)

RS1H Building Construction IIIH.

Project planning and control. Building economics. Concepts and principles in Standards and in Regulations.

RS2H Building Science IIIH.

Over three terms the main topics are:

1. The external environment: measurements and study.
2. Behaviour of materials: especially in relation to moisture.
3. Internal environment: especially lighting and colour.

Experimental projects will be undertaken in the Building Science laboratory.

NR1H Building Structures IIIH.

STRUCTURAL ANALYSIS. (18 lectures, 36 hours tutorials.)

Stability and statical determinancy. Deformation of structural members. Continuous beams—methods of analysis. Portal frames and arches. Structural bracing. Approximation methods for structural analysis. Introduction to computer methods of analysis.

RS5H Computer Methods in Architecture IIIH.

Nature of statistics, and related terms and concepts. Probability and concepts of distribution. Sampling and sampling techniques. Games theory. Introduction to computers.

RS4H Design Studies IIIH.

An additional half-subject, available as an elective for students wishing to extend their experience of this subject.

The nature of problem-solving in general, related to the nature of architectural design. The generation of ideas, and notions about the nature of creativity.

RS22 History and Theories of Architecture II.

For syllabus *see* RS21 History and Theories of Architecture I under First-Year Subjects.

RS92 Urban and Landscape Design Studies II.

This course is complementary to Design Studies, addressing itself to urban areas and to landscape design.

Lectures on the History of Urban Areas and of Landscape Design will form a significant part of the course.

As with RS11 Design Studies I and RS12 Design Studies II the emphasis is upon examining how the environment becomes what it is—the processes, the materials, the people, the concepts and theories.

Studio work and site visits will be used as background experience, the process rather than the product being emphasised.

THIRD-YEAR COMPULSORY SUBJECTS.

RS13 Design and Building Studies III.

PART A.

Architectural design and urban design, considered for their place in the Australian community.

Examines the way in which urban environments arrive at what they are. The realities of commissioning, of construction, and of the marketing of materials. The industries and professions involved in the built environment. Government, and legislative roles. Other decision makers.

The ways in which the outcome is satisfactory or unsatisfactory for the community, and what alternative processes there might be.

PART B.

Architectural design related to the principles of Building Construction, Building Structures and Building Science.

This section of the syllabus is intended to enable those students who may not proceed to the degree of Bachelor of Architecture to take an important step in examining the technical parameters surrounding design.

It builds on RS01 Building Studies I and RS0H Building Studies IIH; goes a little further with the topics of that subject, but especially it examines ways in which they relate to the design process. The extent to which technical aspects determine the nature of buildings, or otherwise, are studied.

The overall theme in this subject is Design, Building and the Community.

Three sub-themes are introduced:

1. THE URBAN ENVIRONMENT (Building Science lecturers).

Daylight and solar radiation in urban centres; microclimate and such matters as wind among tall buildings; urban noise problems; environmental impact of essential services.

2. THE BUILDING INDUSTRY (Building Construction lecturers).

The demography of the industry, and its position in society; suburban builders compared with major building contractors; related and surrounding activities such as manufacturing, supply, distribution, sales and promotion. The Australian situation compared with that in other countries.

Some socio-technical aspects: Australia's chief skills, e.g. concrete work, compared with other countries. Comparisons with regions having more severe climates.

3. DESIGN OF STRUCTURAL ELEMENTS (Civil Engineering lecturers). (18 lectures, 36 hours tutorials.)

Simplified design methods for steel, timber and reinforced concrete beams. Introduction to prestressed, partially prestressed and composite beams. Use of precasting techniques. Selection of materials and member sizes for economic construction.

THIRD-YEAR ELECTIVE SUBJECTS.

In addition to the following elective subjects, which are taken in the Department of Architecture, and which will be offered as staff and enrolments allow and subject to such quotas as may be imposed, electives are also available in departments in other faculties and from other institutions. Details of these electives may be obtained from the Department of Architecture. (See also schedule I.)

RS63 Building Science III.

Over the three terms the following six topics of study are offered. Some of the lectures are offered to students in the first year of the degree of Bachelor of Architecture. Students in this course follow the lectures with measurement and experimental work.

1. Research methods: measurements, techniques, calibration, model theory, standards for experimental design.
2. Sunlight and daylight.
3. Solar radiation and thermal environment; wind and natural ventilation.
4. Acoustics and noise control.
5. Artificial lighting and colour.
6. Research project on approved topic.

Other subjects of study may be offered, staff being available, to facilitate student choice and staff flexibility.

NR23 Building Structures III.

FOUNDATIONS. (18 lectures, 18 hours laboratory and tutorials.)

Types of soil, settlement, bearing pressure; geotechnical processes; types of footings—strip, column and combined, rafts and piles (poured and driven). Retaining walls. Underpinning.

RS83 Computer Methods in Architecture III.

Computer methods for Architecture. Linear programming; Fortran extended; the use of interactive terminals. Students will be required to execute simple programming tasks related to architectural needs.

RS23 History and Theories of Architecture III.

For syllabus *see* RS21 History and Theories of Architecture I under First-Year Subjects.

RS93 Urban and Landscape Design Studies III.

For syllabus *see* RS92 Urban and Landscape Design Studies II under Second-Year Subjects.

NR13 Water Management in Architecture.

18 lectures.

1. Hydrologic processes—flooding and groundwater flow. Rainfall runoff, storm frequency; paved areas and basements; seepage and its effects.
2. Open channel flow—capacity and nature of channels. Roof gutters, downpipes and drains; slope and roughness of channels; obstructions of other kinds.
3. Pipe flow—the parameters governing flow. Pressure evaluation and regulation, especially in tall buildings. Water hammer.
4. Fountains and their design.

HONOURS DEGREE.

RS99 Honours Architectural Studies.

Details of the combinations that may be taken for Honours may be obtained from the Department of Architecture. (See also schedule III.)

OF THE DEGREE OF

BACHELOR OF ARCHITECTURE
(OLD COURSE)

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Architecture.

2. Schedules defining the courses of study, including lectures and the practical work to be undertaken and the examinations to be passed, shall be drawn up by the Faculty and submitted to the Council.

Such schedules shall become effective as from the date of approval by the Council or such other date as the Council may determine, and shall be published in the next University Calendar which is issued after that approval has been given.

3. (a) To qualify for the Ordinary degree of Bachelor of Architecture a candidate shall regularly attend lectures and do written and practical work (where such is required) and pass examinations in the subjects prescribed.

(b) Before being admitted to the degree a candidate shall also submit satisfactory evidence that he has had not less than six months' practical experience, not necessarily consecutive, in work approved by the Faculty as appropriate to his course.

4. (a) A candidate who has completed the work of the third year and who wishes to proceed to the Honours degree must make written application to the Academic Registrar, before or at the time of enrolment in the year in which he intends to take the Honours course, for permission to do so.

(b) Before granting such permission the Faculty will take into consideration the candidate's work up to the time of his application.

(c) To qualify for the Honours degree a candidate shall complete the full course prescribed for the Ordinary degree and shall in addition undertake further work of an advanced nature and pass examinations in such work. Further, he must pass in the subjects which he takes after his acceptance as an Honours student at a higher standard than is required from candidates for the Ordinary degree.

(d) The names of candidates who pass with Honours shall be arranged alphabetically in the following classes: First Class, Second Class Division A, Second Class Division B. A candidate who fails to obtain first or second class Honours may be awarded the Ordinary degree provided he has in all other respects completed the work for that degree.

(e) Before being admitted to the degree a candidate shall also submit satisfactory evidence that he has had not less than six months' practical experience, not necessarily consecutive, in work approved by the Faculty as appropriate to his course.

5. Except by permission of the Faculty a candidate shall not be admitted to the class in any subject for which he has not completed the pre-requisite work as prescribed in the syllabus for that subject.

6. (a) All annual examinations, other than supplementary, shall take place towards the end of the academic year, except that practical examinations and examinations in a subject in which the course of instruction has been completed by the end of the second term, may be held at any convenient time fixed by the Faculty.

(b) A candidate shall enter for examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has regularly attended the prescribed lectures and has done written and practical work where required to the satisfaction of the professors and lecturers concerned.

(c) Written and practical work done by candidates at the direction of the professors or lecturers and the results of terminal or other examinations in any subject may be taken into consideration at the final examination in that subject.

(d) There shall be three classifications of pass at the annual examination in any subject or division of a subject for the degree as follows: Pass with Distinction, Pass with Credit, Pass. The names of candidates who pass with Distinction or with Credit shall be arranged in order of merit within the classification; the names of other candidates who pass shall be arranged in alphabetical order either in one list or in two divisions as the Faculty may determine. If the pass list be published in two divisions, a pass in the higher division may be prescribed in the syllabuses as pre-requisite for admission either to further courses in that subject or to other subjects.

(e) A candidate who fails to pass in any subject shall again attend lectures and do practical work in that subject to the satisfaction of the professors and lecturers unless exempted by the Faculty. Any such exemptions granted will hold for one academic year only.

(f) Supplementary examinations will be held only in special circumstances approved by the Faculty after consideration of individual cases.

7. Except in case of illness or other sufficient cause allowed by the Faculty, no candidate shall be credited in any year with attendance at lectures or practical work in a subject unless he has attended the lectures and practical work respectively in that subject to the satisfaction of the lecturer concerned.

8. No candidate shall be granted exemption from attendance at lectures or practical work except upon grounds approved by the Faculty.

9. A candidate who has twice failed to pass the examination in any subject or division of a subject may not present himself again for instruction or examination therein unless his plan of study is approved by the Dean. If he fails a third time he may not proceed with the subject again except by special permission of the Faculty, and under such conditions as the Faculty may prescribe.

For the purpose of this regulation a candidate who is refused permission to sit for examination in any subject or division of a subject shall be deemed to have failed to pass the examination.

10. A student who has passed examinations *in pari materia* in another faculty or otherwise, or who desires that his work at other universities or technical schools should be counted *pro tanto* for the degree of Bachelor of Architecture may on application be granted such exemption from the requirements of these regulations as the Council shall determine.

11. Except by permission of the Council on the recommendation of the Faculty only those candidates who have entered upon the course for the degree in or before the academic year 1979 will be permitted to enrol in the course for the degree after 31 December 1979. Such candidates will be eligible to proceed to the degree under the provisions of these regulations provided that they complete the course-work requirements for the award of the degree by 31 March 1986 and the practical experience requirements by 30 November 1987, as prescribed in the schedules, unless the Council approves an extension of time in particular cases under clause 5 of Chapter XXV of the Statutes.

Regulations allowed 9 January, 1958.

Amended: 21 Dec. 1967: 4; 15 Jan. 1976: 2; 2 Feb. 1978: 3, 4; 31 Jan. 1980: 11.

OF THE DEGREE OF
BACHELOR OF ARCHITECTURE
(OLD COURSE)

SCHEDULES

(Made by the Council under regulation 2.)

NOTE: Syllabuses of subjects for the degree of B.Arch. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: THE ORDINARY DEGREE

1. During the first, second, third, fourth and fifth years every candidate shall, unless exempted therefrom, attend courses of instruction and at the annual examination for the appropriate year shall satisfy the examiners in each of the following subjects:

(a) First-year subjects

| | |
|---------------------------------|--|
| RA01 Building Construction I | RA31 Architectural Design and Planning I |
| NC51 Architectural Structures I | RA71 Architectural and Free Drawing |
| RA11 Building Science I | RA81 Art History and Appreciation |
| RA21 History of Architecture I | RA41 Studio Work I |

(b) Second-year subjects

| | |
|----------------------------------|---|
| RA02 Building Construction II | RA32 Architectural Design and Planning II |
| NC52 Architectural Structures II | RA82 Architectural Surveying |
| RA12 Building Science II | RA42 Studio Work II |
| RA22 History of Architecture II | |

(c) Third-year subjects

| | |
|-----------------------------------|--|
| RA03 Building Construction III | RA33 Architectural Design and Planning III |
| NC53 Architectural Structures III | RA53 Professional Practice I |
| RA13 Building Science III | RA43 Studio Work III |

(d) Fourth-year subjects

| | |
|---|---|
| RA04 Building Construction IV | RA64 Urban and Regional Planning and Urban Design I |
| NC54 Architectural Structures IV | RA54 Professional Practice II |
| RA14 Building Science IV | RA44 Studio Work IV |
| RA34 Architectural Design and Planning IV | |

(e) Fifth-year subjects

| | |
|--|--------------------------------|
| RA05 Building Construction V | RA75 Architectural Thesis |
| NC55 Architectural Structures V | RA55 Professional Practice III |
| RA15 Building Science V | RA45 Studio Work V |
| RA65 Urban and Regional Planning and Urban Design II | |

SCHEDULE II: THE HONOURS DEGREE

A candidate who has been granted permission to proceed to the Honours degree under regulation 4 shall complete all the work for the Ordinary degree under schedule I, and undertake the following additional work:

RA98 Advanced Studies I:

Seminar courses in one of a limited selection of topics. The topics may include the following:

- | | |
|---|---|
| 1. Advanced Architectural Design and Planning | 7. Landscape Design |
| 2. Architecture and Environment | 8. Professional Management and Administration |
| 3. Development of Contemporary Architecture | 9. Interior and Furniture Design |
| 4. Industrialised Building | 10. Building Services |
| 5. Architectural Structure | 11. Architectural Acoustics |
| 6. Urban Design and Planning | 12. Philosophy of Architecture |

RA99 Final Honours Architecture:

A candidate who has been granted permission to proceed to Final Honours Architecture shall enrol for RA99 Final Honours Architecture and undertake additional work as follows:

RA89 Advanced Studies II:

Seminar courses as a continuation of the work undertaken in RA98 Advanced Studies I.

SCHEDULE III: PRACTICAL EXPERIENCE

1. During the fourth year each candidate will normally be required to obtain at least three months practical experience satisfactory to the Faculty.

2. Such practical experience may form part of the six months practical experience required under regulation 3(b) or 4(e).

3. An indication of the kind of practical experience deemed appropriate to the course and acceptable to the Faculty is set out in a leaflet available from the Academic Registrar.

4. With the prior approval of the Faculty, candidates may undertake an architectural study tour outside South Australia or overseas during the third term of fourth year. The proposed programme and itinerary must be submitted to the Chairman of the Department of Architecture by 30 June of the year of the proposed tour for approval by the Faculty. Candidates may count up to three months of an approved study tour towards the six months practical experience required under regulation 3(b) or 4(e) of the degree of Bachelor of Architecture.

SCHEDULE IV: APPROVAL OF COURSES

1. Except by permission of the Faculty, a candidate shall not proceed to any part of the work of the second or a subsequent year unless he has completed the whole of the work of, and passed the examination proper to, the preceding year or years. At the discretion of the Board of Examiners a candidate who fails to satisfy the examiners in not more than two subjects at an annual examination may be permitted to present himself for a supplementary examination in the subject or subjects concerned; and if he satisfies the examiners in the supplementary examination he shall then be deemed to have passed the whole examination.

2. Courses of study must be approved by the Dean of the Faculty (or his nominee) at enrolment each year.

3. Continuation of courses offered prior to 1980:

Beginning on 1 January 1980, new courses for the degrees of Bachelor of Architectural Studies and Bachelor of Architecture have been established. All students enrolling in the Architecture courses for the first time in 1980 or later must enrol in the new courses unless permission of the Faculty of Architecture and Planning has previously been given.

Students who before the beginning of the academic year 1980 were enrolled in the Bachelor of Architecture course will continue in that old course except that:

- (a) any student who wishes to transfer to either of the new courses may apply to the Faculty of Architecture and Planning for permission to do so and will be granted such status in the course into which transfer is sought, as the Faculty may determine; and
- (b) students enrolled in the old course who have not passed all the course work requirements by 31 March 1986 will be required to transfer to one of the new courses; uncompleted practical experience requirements must be fulfilled by 30 November 1987.

OF THE DEGREE OF
BACHELOR OF ARCHITECTURE
(OLD COURSE)
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. Almost all books and journals set for reference will be available in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

FIRST- AND SECOND-YEAR SUBJECTS.

For syllabuses of First- and Second-Year subjects see Calendar for 1980, Volume II (Details of Courses), pages 554 to 557.

THIRD-YEAR SUBJECTS.

RA03 Building Construction III.

Retaining walls. Steel and reinforced concrete frame construction. Concrete slab floors and roofs. Foundations. Joinery, fitments, etc. Special doors and windows. Brickwork and panel walling. Shoring: timbering to trenches. Designed foundations and damp proofing of basements. Ductwork. Fire services, requirements, etc. Staircases, fire-resisting and special.

Students will be referred to appropriate texts during the course of lectures.

NC53 Architectural Structures III.

The course consists of approximately 30 hours of lectures and 50 hours of tutorials, design and laboratory classes. In addition, approximately 30 hours will be spent on structural design aspects of RA43 Studio Work III. Lecture topics will include:

Structural connections. Rigid frame buildings—three-dimensional action, resistance to wind loads, structural requirements for multi-storey buildings. Statical indeterminacy, approximate solutions. Analysis of continuous beams and simple frames by moment distribution. Applications of computers to analysis. Prestressed concrete, design and applications. Advanced structures. Graphical representation of stress.

RA13 Building Science III.

Internal environment; heating and air-conditioning (public and commercial buildings); artificial illumination; noise control. Acoustical design of auditoria and studios. Sun control problems associated with large buildings. Daylight control in group planning. Fire in buildings; fire resistance of materials. Functional analysis of architectural planning; ergonomics. Materials; concreting cements, special cements and additives; dense concrete surface finishes. Ceramics. Floor finishes. Biological attack on building materials; preventive methods.

Text-books:

Great Britain. Ministry of Housing and Local Government. Planning bulletin 5: *Planning for daylight and sunlight* (H.M.S.O.).

Parkin, P. H., and Humphreys, H. R., *Acoustics, noise and buildings* (Faber Paperback).

Standards Association of Australia, A.S. 1680, 1976. *Interior lighting and the visual environment*.

McGuinness, W. J., *Mechanical and electrical equipment for buildings*, 5th edition (Wiley).

Phillips, D., *Lighting in architectural design* (McGraw-Hill).

Walsh, J. W. T., *Planned artificial lighting* (Odhams).

RA33 Architectural Design and Planning III.

Assessment based on project work during the year. Theories of architecture and planning principles, historical and modern; design methods and design strategies; landscape architecture and design. Computer applications.

RA53 Professional Practice I.

Specification; structure and organisation of building industry; central and local government; general law of contract; pricing of tenders; preparation of quantities. Business management and administration; book-keeping and accountancy. Building Act and by-laws, and other legislation.

RA43 Studio Work III.

The practical application of theoretical work in architectural design, building construction, building science, and structures.

FOURTH-YEAR SUBJECTS.

RA04 Building Construction IV.

Load bearing walls. Movement joints. Prestressed concrete. Large span roofs.

Text-book:

Michaels, L., *Contemporary structure in architecture* (Reynolds).

NC54 Architectural Structures IV.

The course consists of 25 lectures and 35 hours practical classes, and design tutorials. Consultations are given in connection with RA44 Studio Work IV. Lecture topics will include:

Geotechnical Engineering—Identification of problem soils, site investigation, design of foundations and design of retaining walls. Structural Engineering—Preliminary design of buildings and proportioning of components, plastic collapse theories of analysis and design, limit states methods of design, modern developments in structural engineering.

RA14 Building Science IV.

Behaviour of materials and structural elements in fires, protective measures. Plastics and building applications; structural sandwich panels. Protection and decoration of materials and surface finishes. Illumination; design of the visual field, glare; permanent supplementary artificial lighting of interiors. Acoustics; speech reinforcement and loud speaker installations. Mechanical engineering services in large buildings; air-conditioning, lifts and escalators. Introduction to climatic aspects of group planning; natural air flow patterns around buildings.

Text-books:

McGuinness, W. J., *Mechanical and electrical equipment for buildings*, 5th edition (Wiley).

Great Britain. Building Research Station, *Architectural physics: lighting*, by R. G. Hopkinson (H.M.S.O.).

Illuminating Engineering Society. Technical report No. 4, *Lighting during daylight hours* (I.E.S.).

Kinzey, B. Y., and Sharp, H. M., *Environmental technologies in architecture* (Prentice-Hall).

Phillips, D., *Lighting in architectural design* (McGraw-Hill).

Sherratt, A. F. C. (ed.), *Air conditioning system design for buildings* (Elsevier).

Bird, E. L., and Docking, S. J., *Fire in buildings* (Black).

Olgay, V., *Design with climate* (Princeton U.P.).

Strakosch, G. R., *Vertical transportation: elevators and escalators* (Wiley).

RA34 Architectural Design and Planning IV.

Lecture: one hour a week. Assessment based on project work during the year.

Programming the built environment. Design objectives in planning, construction and environmental performance of buildings. Specialised design problems.

Text-book:

Canter, D., and Stringer, P., *Environmental interaction* (Surrey U.P.).

RA64 Urban and Regional Planning and Urban Design I.

The architect and town planning; the history of town planning from ancient times; colonial town planning; problems in town planning deriving from the industrial revolution; the garden city movement; the Radburn principle; the neighbourhood unit; satellites and new towns; regionalism; the central core and urban renewal; town planning as an art form; civic art and urban design.

Text-books:

Gallion, A. B., and Eisner, S., *The urban pattern* (Van Nostrand).
Mumford, L., *The city in history* (Pelican).

RA54 Professional Practice II.

Building economics. Quantity surveying. Bills of quantities. Standard method of measuring. Law of building contracts. Standard form of contract.

Text-book:

Royal Australian Institute of Architects, *Lump sum contracts*, current edition.

RA44 Studio Work IV.

The practical application of theoretical work in architectural design, urban planning, building construction and services, building science, and structures.

RA98 Advanced Studies I.

Available only to students who have been granted permission to proceed to the Honours degree. See below under Honours degree of Bachelor of Architecture.

FIFTH-YEAR SUBJECTS.

RA05 Building Construction V.

Builders' plant. Road construction. Concrete work and finishes. Glass-concrete and patent glazing. Lifts and escalators. Curtain walling. Factory production and prefabrication.

NC55 Architectural Structures V.

No lectures will be given in this course which will consist of structural design aspects of RA45 Studio Work V. Seminars will be held on appropriate topics.

RA15 Building Science V.

Quality control and materials. Sound measurements and acoustics tests on building elements and auditoria; noise surveys. Climatic aspects of group planning; solar radiation; sunlight and orientation; daylighting; air movement and atmospheric pollution. Illumination; luminance design; street lighting. Solar energy in architecture; solar heating and cooling. Specialised problems and scientific research for architecture and town planning. Research project on an approved topic.

RA65 Urban and Regional Planning and Urban Design II.

The practice of town and country planning. The principles of civic survey and the study of modern planning schemes. Outline of planning legislation. Regional and national planning with reference to economics, sociology and demography.

Text-books:

Chadwick, G., *A systems view of planning* (Pergamon).
Hall, P., *Urban and regional planning* (Pelican).
McLoughlin, B., *Urban and regional planning* (Faber and Faber).

Appropriate reference lists will be supplied at the commencement of the year.

RA75 Architectural Thesis.

To be on a selected and approved subject involving architectural design, building science, and constructional problems and to be accompanied by an explanatory report.

RA45 Studio Work V.

Advanced projects in architectural design and applications relating to building science, architectural construction, and structures.

RA55 Professional Practice III.

The code of professional conduct. Standard fee scales. Office organisation. Programming. Building investment and budgeting. Variations. Certificates and accounts. Law relating to the architect. Arbitration. Insurance. Bankruptcy and liquidated damages. Contract law.

Text-book:

Royal Australian Institute of Architects, *Lump sum contracts*, current edition.

HONOURS DEGREE OF BACHELOR OF ARCHITECTURE.

A student wishing to proceed to the Honours degree of Bachelor of Architecture should consult the Chairman of the Department during the enrolment period at the beginning of the fourth year of the Architecture course.

The work for the Honours degree consists of the work for the Ordinary degree together with additional seminar courses in the fourth year (RA98 Advanced Studies I) and the fifth year (RA89 Advanced Studies II).

Honours candidates will be required to show a greater depth of understanding than that required for the Ordinary degree.

RA98 Advanced Studies I.

Available only to students who have been granted permission to proceed to the Honours degree. The work is undertaken concurrently with the work of the fourth year of the Architecture course.

For details see the schedules of the degree of Bachelor of Architecture (Schedule II: The Honours Degree).

Appropriate reading and reference lists will be supplied at the commencement of the year.

RA99 Final Honours Architecture.

and

RA89 Advanced Studies II.

Students granted permission to proceed to Final Honours will enrol for both RA99 Final Honours Architecture and RA89 Advanced Studies II.

For details see the schedules of the degree of Bachelor of Architecture (Schedule II: The Honours Degree).

Appropriate reading and reference lists will be supplied at the commencement of the year.

OF THE DEGREE OF
BACHELOR OF ARCHITECTURE
(NEW COURSE)

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Architecture. A candidate may obtain either the Ordinary degree or the Honours degree but not both.
2. The course of study for both the Ordinary and the Honours degree shall extend over three academic years.
3. Except as provided in regulation 4, a candidate for the degree shall:
 - (a) have completed satisfactorily the first two years of the course for the degree of Bachelor of Architectural Studies as prescribed in the regulations and schedules of that degree; or
 - (b) have completed satisfactorily the first three years of a course in a recognised School of Architecture leading to a degree or diploma which is considered by the Council, after receipt of advice from the Faculty of Architecture and Planning, to be equivalent for the purpose to the degree of Bachelor of Architectural Studies; or
 - (c) be qualified for admission to a degree in the University of Adelaide, or for admission in another university to a degree which is considered by the Council, after receipt of advice from the Faculty of Architecture and Planning, to be equivalent for the purpose to the degree of Bachelor of Architectural Studies.
4. Subject to the approval of the Council, the Faculty of Architecture and Planning may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not satisfy one of the requirements specified in regulation 3 but who has satisfied the Faculty of fitness to undertake work for the degree.
5. (a) The Council, on the advice of the Faculty, shall from time to time prescribe schedules defining:
 - (i) the courses of study for the degree including the practical and other work to be undertaken;
 - (ii) the subjects to be completed satisfactorily and the examinations to be passed; and
 - (iii) the order in which the subjects are to be completed and the order in which the examinations are to be passed.
- (b) Such schedules shall become effective from the date of prescription by the Council, or such other date as the Council may determine.
- (c) The syllabuses of subjects shall be specified by the chairman of the department concerned and submitted to the Faculty and Council for approval.
- (d) Schedules made and syllabuses approved by the Council shall be published in the next edition of the University Calendar.
6. To qualify for the Ordinary degree a candidate shall attend lectures and other classes to the satisfaction of the departments concerned, and shall satisfactorily complete written and practical work, and shall pass examinations, as prescribed in the schedules.
7. Except by permission of the Faculty, a candidate shall not enrol in any subject for which pre-requisite studies as prescribed in the syllabus for that subject have not been satisfactorily completed.

8. (a) Candidates shall enter for annual and supplementary examinations on the forms and by the dates prescribed by the Council.

(b) A candidate shall not be eligible for final assessment until after the satisfactory completion of the requirements prescribed in the schedules.

(c) There shall be three classifications of pass in any subject for the Ordinary degree, as follows:

Pass with Distinction

Pass with Credit

Pass

The names of the candidates in each of the classifications shall be published as prescribed in the schedules.

9. In determining a candidate's final result in a subject the examiners may take into account assessments of the candidate's oral, written or practical work, or examinations in that subject, provided that the candidate has been given notice at the beginning of the academic year of the way in which such assessments will be taken into account and of their relative importance in the final result.

10. (a) A candidate who has twice failed to pass an annual examination, which shall include any supplementary examination, in any subject, may not enrol for that subject again except by permission of the Faculty and then only in accordance with such conditions as the Faculty may prescribe.

(b) For the purpose of regulation 10(a) a candidate who is not granted permission to sit for an examination, or who fails to attend all or part of an annual examination (or a supplementary examination if granted) in any subject after having been enrolled in the second or third year for at least two terms, or after having attended substantially the full course of instruction in the first year in that subject, shall be deemed to have failed to pass the examination.

11. A candidate who has passed subjects in the Faculty of Architecture and Planning or in other faculties or universities or elsewhere may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine, save that a candidate shall always be required to satisfy the examiners in all subjects of the final year of the course.

12. To be eligible for the award of the Honours degree of Bachelor of Architecture a candidate shall undertake such studies and achieve such standards as are prescribed in the schedules.

13. The names of candidates who qualify for the award of the Honours degree shall be published as prescribed in the schedules within the following classes and divisions:

First Class

Second Class

Division A

Division B

Third Class

OF THE DEGREE OF
BACHELOR OF ARCHITECTURE
(NEW COURSE)

SCHEDULES

(Made by the Council under regulation 5.)

(The Council, in making these schedules under regulation 5, determined that they become effective on 1 January, 1980.)

SCHEDULE I: ADMISSION

An applicant may be considered for admission if one or more of the following pre-requisites are satisfied, and subject to the approval of the Faculty of Architecture and Planning:

- (a) Completion of the first two years of the course prescribed for the degree of Bachelor of Architectural Studies.
- (b) Completion in another institution of the first three years of a prescribed Architecture course as approved for this purpose by the Faculty.
- (c) Completion of the degree of Bachelor of Architectural Studies *or* completion in the University of Adelaide or another university, of a degree which is considered by the Faculty to be equivalent for the purpose to the degree of Bachelor of Architectural Studies.
- (d) The holding of qualifications which satisfy the Faculty under regulation 4.

An applicant may be required to undertake qualifying studies and to pass a qualifying assessment, as determined by the Faculty of Architecture and Planning after receipt of advice from the Chairman of the Department of Architecture.

SCHEDULE II: THE ORDINARY DEGREE

1. COURSE OF STUDY

The course of study shall consist of four core subjects taken in each of the three years of study, one elective subject (or a period of approved practical experience *in lieu*) and a group of twelve practice subjects.

To qualify for the degree a candidate shall attend courses and satisfy examiners in each of the following subjects:

Core subjects

First-Year

| | |
|-----------------------------------|---------------------------------|
| RR01 Architectural Construction I | RR21 Architectural Science I |
| RR11 Architectural Design I | NR01 Architectural Structures I |

Second-Year

| | |
|------------------------------------|----------------------------------|
| RR02 Architectural Construction II | RR22 Architectural Science II |
| RR12 Architectural Design II | NR02 Architectural Structures II |

Third-Year

| | |
|-------------------------------------|-----------------------------------|
| RR03 Architectural Construction III | RR23 Architectural Science III |
| RR13 Architectural Design III | NR03 Architectural Structures III |

Elective subject

One elective subject selected from the following and approved by the Chairman of the Department of Architecture:

RR77 Man-Environment Studies

OR

RX07 An approved study as prescribed from time to time

OR

One approved subject or the equivalent from another degree of the University of Adelaide.

With the prior approval of the Chairman of the Department of Architecture, a candidate may choose to present a period of approved practical experience for the equivalent of twenty weeks *in lieu* of an elective subject.

Practice subjects

RR47 Architectural Surveying

RR57 Building and Planning
Regulations

RR17 Building Services and
Equipment A

RR18 Building Services and
Equipment B

RR48 Building Surveys

RR27 Computer Techniques in
Architecture A

RR28 Computer Techniques in
Architecture B

RR37 Drawing and Visual
Communication A

RR38 Drawing and Visual
Communication B

RR67 Estimating and Cost Control

RR58 Site Organisation and Plant

RR68 Specification and Bills of Quantities

2. ORDER OF SUBJECTS

Core subjects

Before entering upon the course of study for the following year a candidate shall pass in all the core subjects of each year of the course, provided that at the discretion of the Board of Examiners a candidate who fails to satisfy the examiners in not more than two core subjects at an annual examination may be permitted to sit for a supplementary examination in the subject or subjects concerned and the whole of the examination shall be deemed to have been passed if the examiners are satisfied at the supplementary examination.

Elective subject

With permission of the Chairman of the Department of Architecture the elective subject may be undertaken in either the first or second year. At the discretion of the Board of Examiners, a candidate who fails to satisfy the examiners in the elective subject may be granted a supplementary examination.

Practice subjects

Enrolment in each of the practice subjects listed in clause 1 of this schedule may be permitted in any sequence and each may be undertaken during either the first or the second year of the course.

There will be no supplementary examination in any practice subject; a candidate who does not satisfy the examiners may repeat the subject when it is next offered.

Entry to Third Year

Except with the permission of the Chairman of the Department of Architecture a candidate may not enrol in the third year of the course unless one of the elective subjects, or an approved period of practical experience, and all of the practice subjects listed in clause 1 of this schedule have been satisfactorily completed.

3. ASSESSMENT

A candidate who has presented for examination in any subject may, at the discretion of the Board of Examiners, be required subsequently to present for an additional examination, which may consist of oral, written or practical work; the results of which shall be taken into account in determining the result at the annual assessment.

4. APPROVAL OF COURSE

Courses of study must be approved by the Dean of the Faculty (or nominee) at enrolment each year.

5. EXEMPTION

Exemption from or status in any third-year subject or part of a third-year subject will not be granted.

6. PASS LISTS

The names of the candidates who pass in any subject shall be published in order of merit in the classifications Pass with Distinction and Pass with Credit, and in alphabetical order in the classification Pass.

SCHEDULE III: THE HONOURS DEGREE

A candidate who wishes to proceed to the Honours degree must make written application to the Academic Registrar, before or at the time of enrolment in the year in which it is intended that the Honours course shall be taken, for permission from the Chairman of the Department of Architecture to do so.

In granting permission the Department of Architecture will consider the standard of performance and assessments previously achieved.

A candidate for the Honours degree in addition to completing the full course prescribed for the Ordinary degree shall also attend classes regularly and pass examinations in an additional advanced subject: RR99 Honours Architecture.

This additional subject will normally be undertaken in the third year of the course but may, on the recommendation of the Chairman of the Department of Architecture, be permitted in the second year.

In order to qualify for the award of Honours, a candidate must, in addition to satisfying the examiners in the advanced subject (RR99 Honours Architecture), also achieve a high classification of pass in the subjects for the Ordinary degree.

The names of the candidates who are awarded honours shall be published in alphabetical order as appropriate in the prescribed classes and divisions.

OF THE DEGREE OF
BACHELOR OF ARCHITECTURE
(NEW COURSE)
SYLLABUSES

Text-books:

Students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the Department of Architecture. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library, or in the case of standard professional references and trade literature, in the Department of Architecture.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

FIRST-YEAR CORE SUBJECTS.

RR01 Architectural Construction I.

During twenty-six lectures the following three areas will be developed:

1. **BUILDING FABRIC.**

As achieved by construction methods using different materials.

Superstructure elements and systems: walls, roofs, suspended floors, stairs.

Substructure elements and systems: footings, ground floors, retaining walls.

Related elements: screen walls and pavings.

2. **BUILDING JOINTS AND THEIR FUNCTIONS.**

As used for different purposes between same and dissimilar materials, finishes and manufactured components.

3. **INDUSTRIALISATION IN THE PRODUCTION OF BUILDINGS.**

Standardisation and dimensional co-ordination in the design of buildings and manufacture of building products.

Manufactured elements and system building (rationalised building and system building).

Windows and doors.

Joinery fittings and equipment.

RR11 Architectural Design I.

PART A. DESIGN AND THE PHYSICAL CONSTRAINTS.

This is the same syllabus as Part B of the Bachelor of Architectural Studies subject RS13 Design and Building Studies III, and students who have completed that subject will be exempt.

PART B. FROM BRIEF TO DOCUMENTATION.

This is the student's initiation into personally attempting the design-and-documentation stages. By way of one, or at most two, studio projects the process is experienced. Also, the quality of the product will be examined, as is not done in the Bachelor of Architectural Studies projects, where process rather than products form the focus.

Staff of the Department concerned with Building Structures, Building Construction and Building Science will be available for consultation.

For those undertaking both parts this is a twenty-six weeks programme. The teaching situation is mainly by studio tuition, seminars and consultation.

Design projects will be developed and drawn. There will be short additional exercises interspersed with design projects to stimulate the development of design ability and associated skills.

RR21 Architectural Science I.

This syllabus is similar in subject matter to part of the elective subject RS63 Building Science III, in the Degree of Bachelor of Architectural Studies. Most of the lectures are common to the two subjects. Those who have successfully completed the subject RS63 Building Science III will be exempt from this subject. Laboratory practical work and tutorials will be undertaken.

1. SUNLIGHT AND DAYLIGHT.

Solar chart, Waldram diagrams, daylight protractor calculations.

2. SOLAR RADIATION.

Solar radiator protractor, energy intake calculations.

3. THERMAL ENVIRONMENT.

k and U values, energy balance calculations; ventilation.

4. ARCHITECTURAL ACOUSTICS AND NOISE CONTROL.

Geometrical and wave-front analysis. Sound attenuation.

5. ARTIFICIAL LIGHTING AND COLOUR.

Design approximations; classifications and colour selection.

6. BUILDING MATERIALS.

Selection with regard to function.

NR01 Architectural Structures I.

The topics for this subject are the same as in the subjects NR1H Building Structures IHH and NR23 Building Structures III (the electives in years two and three of the Bachelor of Architectural Studies, and also the Structures topics within the compulsory subject RS13 Design and Building Studies III. If any of those subjects has been successfully completed in the Bachelor of Architectural Studies, exemption will be granted from appropriate parts of this subject.

ELECTIVE SUBJECT.

If not undertaken during the first year, the elective subject may be completed during the second year. (See syllabus below and schedule II.)

PRACTICE SUBJECTS.

Each practice subject may be undertaken in either the first or second year. (See syllabus below and schedule II.)

SECOND-YEAR CORE SUBJECTS.

RR02 Architectural Construction II.

This subject proceeds by an approach through *materials*, i.e. general approach examining *how* a building's functions are achieved with different materials as used in specialised building processes which make up the production of building. Twenty-six lectures.

1. **TIMBER.**

Solid timber elements and framed systems, e.g. wall frames, trusses.

Timber elements made with adhesives, e.g. laminated beams, boxed beams, structural boards, skin structures.

Structural joints in timber.

2. **MASONRY.**

Using brick, block and stone systems, combined system (brick veneer), waterproofing and damp-proofing.

3. **STEEL.**

Structural elements and systems:

rolled shapes, bolted and welded connections;

typical members used for columns and beams;

framed systems for floors and roofs;

structural decks.

4. **CONCRETE.**

Current concrete technologies for structural and other uses of in-situ and pre-cast reinforced concrete as structural elements and systems, including columns, beams, slabs and floor and wall systems.

RR12 Architectural Design II.

In this year the student is to develop further the ability to manage a building project independently. The projects will not be large buildings. (They may involve some structural problems of a comparatively advanced kind.)

The quality of the products will be given increasingly close attention.

Staff of the Department concerned with Building Structures, Building Construction, and Building Science will be available for consultation.

RR22 Architectural Science II.

Over the three terms the following five topics are developed:

- Acoustics (including use of models; electro-acoustics).
- Lighting (including special cases such as sports arenas).
- Thermal properties and insulation.
- Materials testing (other than structural).
- Colour (including paint matching).

NR02 Architectural Structures II.

Twenty-six lectures; twenty-six 2-hour practical sessions, divided between tutorials (9), consultations and design exercises.

TOPICS.

- Design Approaches: the selection of structural forms, three-dimensional action, determination of loads.
- Special Conditions: wind resistance and cyclones, earthquakes, movement in buildings.
- Special Structures: folded slabs, hyper and other shell structures, lattice structures for domes and space grids, tension structures.
- Constructional methods for special structures.
- Structural economics and construction.
- Project planning-design and construction.
- The role of the engineer in the design team.
- Computer-aided structural design and detailing—a few insights.
- New materials and construction techniques.

ELECTIVE SUBJECT.

The elective subject must be completed by the end of the second year. The following choices are available with the prior approval of the Chairman of the Department of Architecture. (See also schedule II.)

RR77 Man-Environment Studies.

The topics to be studied include:

- Individuals*: the experience called "comfort"; the perception of environment, physiological aspects, psychological aspects, ergonomics.
- Communities*: the role allotted to buildings in communal attitudes (aspects of security, family, wealth, legend, etc.); urban form and how it also reflects communal attitudes.

OR

RX07 An approved study of the student's choosing.

Guidelines for this will be issued from time to time, but the study will be a self-directed study yielding a report or dissertation and will depend on availability of supervisors.

OR

An approved subject or the equivalent from another degree.

This subject may be one available in a department other than the Department of Architecture or it may be possible for a student to take a subject (or the equivalent) from the Bachelor of Architectural Studies that he has not previously studied. These arrangements will be subject to the availability of staff and to time-table constraints.

OR

Practical Experience.

Approved engagement (meaning work paid or otherwise) with an architectural office or in the building industry, for the equivalent (part-time acceptable) of twenty weeks. Evidence must afterwards be provided that the engagement offered suitable insight into the profession and/or the building industry.

PRACTICE SUBJECTS.

Enrolment in these subjects may be permitted in any sequence and each may be undertaken during either the first or the second year of the course. (See also schedule II.)

RR47 Architectural Surveying.

A course of nine hours, plus field work and drawing.
Surveyors; equipment. Survey techniques for site boundaries or levels and contours, and for setting out buildings.

RR57 Building and Planning Regulations.

A course of nine hours.
The authorities with jurisdiction over buildings and building operations; their regulations and their ways of administering them.
The more influential regulations examined; effects upon design, building and contract administration.

RR17 Building Services and Equipment A.

A course of nine lectures and nine tutorials.
Plumbing and sanitation. Water supply, drainage and sewerage. Plumbing fittings for domestic and commercial use. Garbage disposal in buildings.

RR18 Building Services and Equipment B.

A course of nine lectures and nine tutorials.
Mechanical and electrical services. Lifts and escalators. Mechanical services of other kinds. Fire fighting installations. Security installations. Gas installations. Electricity supply and wiring; electrical equipment and fittings.

RR48 Building Surveys.

A course of four hours, plus field work and drawing. Surveying and measuring existing buildings. Measured drawings. Techniques for alteration of projects, for dilapidation reports, and for the recording of historic buildings and sites.

RR27 Computer Techniques in Architecture A.

AND

RR28 Computer Techniques in Architecture B.

Each of nine two-hour sessions.

An introduction to the nature of programming, and to the kinds of programmes already available which are helpful in relation to various architectural areas, such as design (includes computer graphics), costing, and works scheduling.

RR37 Drawing and Visual Communication A.

AND

RR38 Drawing and Visual Communication B.

Each of nine two-hour sessions.

Free drawing. Architectural drawing. Colour work. Other graphic skills. The role of graphics in buildings. The relation of graphical communication to the broader architectural experience.

RR67 Estimating and Cost Control.

A course of nine hours.

An introduction to the range of prediction techniques and their applicability. Students will undertake simple exercises in estimating. Cost control and project management described, and implications for the design stage discussed.

RR58 Site Organisation and Plant.

A course of nine 2-hour sessions, seven of them in the form of site visits.

Organisation of sites and sequence of work. Builders' accommodation, plant, hoists, cranes. Deliveries, storage and waste disposal on the site. Relation of the trades at work. Demolition work. Protection of workers and of the public.

RR68 Specifications and Bills of Quantities.

A course of nine hours.

Introduces the student to examples of specifications and of bills, and how they are compiled. The work of specification writers and of quantity surveyors. The relation of these documents to estimating, building, cost control and contract administration. Thence their effect upon the design process.

THIRD-YEAR CORE SUBJECTS.

RR03 Architectural Construction III.

"Advanced Construction", the bringing together of RR01 Architectural Construction I and RR02 Architectural Construction II, and emphasis on economic aspects. This will employ consultation in the studio, but there will be lecture sessions (maximum 9) which further develop three topics:

1. Large buildings:
 - multi-storey buildings;
 - industrial buildings;
 - large span buildings.
2. Choice of construction forms and systems, cost comparisons and appropriateness for various building types.
3. Advanced industrialised methods in the production of buildings.

RR13 Architectural Design III.

In this final year there will be one long studio project ("The Final Project") which will be presented first as well developed sketch designs, then as partly developed production drawing and details. The sketch designs will be assessed primarily for the quality (in all important aspects) of the design, while the further drawings will be examined for competence in regard to Building Construction, Building Structure, and Building Science.

There will also be some other projects, dealt with to preliminary sketches only, giving opportunities to deal in uncommon situations such as large spans, concert hall acoustics, systems building, or the like.

RR23 Architectural Science III.

The topics taught in RR23 Architectural Science III are developed in relation to the work current in RR13 Architectural Design III, chiefly by consultation with students in the studio. Chosen portions of those projects will be the subject of reports, calculations and/or experimental work by the student.

NR03 Architectural Structures III.

Selected topics will be taught by specialist engineers.

Seminar papers will be delivered by students.

Consultation related to Architectural Design will be provided.

HONOURS DEGREE.

RR99 Honours Architecture.

This is the additional Honours subject, usually taken in the third year (but may be permitted in the second year), by students approved as Honours Students. Admission will be selective, based on prior results.

Subject options will be announced from time to time, according to staff available and their interests and research.

The aim of the subject is that the student should develop the ability for self-directed research, either from secondary material or from original material. Seminar papers and a final paper (of the order of 4,000 words) will be required.

OF THE DEGREE OF
MASTER OF ARCHITECTURE
REGULATIONS

1. There shall be a degree of Master of Architecture.
2. Except as provided in regulation 3, a candidate for the degree shall either:
 - (a) be qualified for admission to the degree of Bachelor of Architecture in the University of Adelaide; or
 - (b) be qualified for admission to another degree in the University of Adelaide or to a degree in another university recognised by the University of Adelaide, the qualifications of which degree are considered by the Faculty of Architecture and Planning to be equivalent for the purpose to those of the degree of Bachelor of Architecture.
3. Subject to the approval of the Council, the Faculty may in special cases and subject to such conditions (if any) as it may see fit to impose in each case accept as a candidate for the degree a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
4. To qualify for the degree a candidate shall prepare a thesis, embodying the results of original research or investigation made by him into an architectural topic which has been approved in advance by the Faculty, which he has prepared under the guidance of and in regular consultation with a supervisor or supervisors appointed by the Faculty.
5. Before approving the topic of his proposed research or investigation, the Faculty may require a candidate to pursue for not more than one calendar year under the supervision of a supervisor or supervisors appointed by the Faculty, and pass examinations in, advanced courses related to his field of study.
6. Unless the Faculty approve an extension of time in a particular case, a candidate shall submit the thesis not earlier than one calendar year and not later than three calendar years from the date of approval of the topic.
7. If in the opinion of the Faculty a candidate for the degree is not making satisfactory progress, the Faculty may, with the consent of the Council, withdraw its approval of his candidature, and the candidate shall cease to be enrolled for the degree.
8. A candidate shall lodge with the Academic Registrar three copies of his thesis, prepared in accordance with directions given to candidates from time to time.*
9. The Faculty shall nominate examiners of the thesis, of whom at least one shall be external. The examiners may recommend that the thesis:
 - (a) be accepted; *or*
 - (b) be accepted subject to the candidate passing an examination in the field of study immediately relevant to the subject of his thesis; *or*
 - (c) be returned to the candidate for revision and re-submission (within such period of time as the Faculty may allow); *or*
 - (d) be rejected.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

10. A candidate for the degree of Doctor of Philosophy whose work is considered by the Faculty, after report by the examiners appointed to adjudicate on it, not to be of sufficient merit to qualify him for that degree, but of sufficient merit to qualify him for the degree of Master of Architecture, may be admitted to the degree of Master provided that he is otherwise qualified to become a candidate for the degree.

11. A candidate who complies with the foregoing conditions and satisfies the examiners may be admitted to the degree of Master of Architecture.

Regulations allowed 21 December, 1967.
Amended: 28 Feb, 1974: 3; 15 Jan, 1976: 2, 8; 2 Feb, 1978: 2.

FACULTY OF ARTS

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OF THE DEGREE OF

BACHELOR OF ARTS

REGULATIONS

1. There shall be an Honours degree and Ordinary degree of Bachelor of Arts. A candidate may obtain either degree or both.
2. The course of study for the Ordinary degree shall extend over three academic years and that for the Honours degree over four academic years.
3. (a) In these regulations and in schedules made under them by the Council the word "subject" means a course of study at the University normally completed in one academic year. In syllabuses, if the context so requires, it may mean alternatively a subject at one of the public examinations conducted by the University.
(b) The Council, after receipt of advice from the Faculty of Arts, shall from time to time prescribe schedules defining (i) the subjects of study for the degree to be provided by the University, (ii) the range of subjects (including lecture courses, laboratory courses and other practical work) to be satisfactorily completed and the examinations to be passed by candidates.
(c) Such schedules shall become effective from the date of prescription by the Council or such other date as the Council may fix.
(d) The syllabuses of subjects shall be specified by the Head of the department concerned and submitted to the Faculty and the Council for approval.
(e) Schedules made and syllabuses approved by the Council shall be published in the next edition of the University Calendar.
4. A candidate for the degree shall attend classes as required by the Head of the department concerned and pass examinations in accordance with the provisions of schedule II (Ordinary degree) or schedule III (Honours degree).
5. (a) A candidate desiring to enter for an honours school must obtain the approval of the head of the school concerned. The final examination may not, except by special permission of the Faculty, be taken until four years of study have been completed after matriculation.
(b) The work of the Final Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of the department concerned, the Faculty may permit a candidate to spread the work over two years, but not more, under such conditions as it may determine.
(c) The names of the candidates who qualify for the Honours degree shall be published in alphabetical order within the following classes and divisions in each school:
First Class
Second Class
Division A
Division B
Third Class.
(d) A candidate who is unable to complete the course for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the course, or who withdraws from the course shall be reported to the Faculty which may permit him to re-enrol for the Honours degree under such conditions (if any) as it may determine.
(e) A candidate may not enrol a second time for the Final Honours course in the same school if he (i) has already qualified for Honours in that school; or (ii) has presented himself for examination in that school but has failed to obtain Honours; or (iii) withdraws from his course, unless the Faculty under paragraph (d) hereof permits him to re-enrol.

B.A.
REGULATIONS

6. Except by permission of the Faculty a candidate shall not proceed to a subject for which he has not completed the pre-requisite subjects prescribed in the syllabuses.

7. A candidate shall do such written or practical work as may be prescribed by the professor or lecturer.

8. Except in special cases approved by the Council the annual examinations shall take place towards the end of the academic year. A candidate shall enter for examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the professors and lecturers concerned. Written or practical work done by candidates by direction of the professors or lecturers and the results of terminal or other examinations in a subject may be taken into consideration at the final examination of that subject.

9. The names of candidates who pass at an annual examination in any subject or division of a subject for the Ordinary degree shall be published in alphabetical order in the following classifications:

- Pass with Distinction,
- Pass with Credit,
- Pass.

If the pass lists be published in two divisions, a pass in the higher division may be prescribed in the syllabuses as a pre-requisite for admission either to further courses in that subject or to other subjects.

10. A candidate who fails to pass in a subject and who desires to take the subject again shall again attend lectures and do practical work in the subject to the satisfaction of the professors and lecturers, unless exempted therefrom by the Faculty of Arts.

11. A candidate who has twice failed to pass the examination in any subject or division of a subject may not enrol for that subject again except by special permission of the Faculty and then only under such conditions as the Faculty may prescribe.

For the purpose of this regulation a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Dean as adequate, to attend all or part of an annual examination (or a supplementary examination if granted) after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.

12. A candidate who has passed subjects in other faculties or universities or elsewhere may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

13. (a) A graduate in another faculty who wishes to proceed to the degree of Bachelor of Arts and to count towards that degree subjects which he has already presented for another degree may do so subject to the following conditions: (i) he may present not more than three such subjects, save that a graduate in law who in qualifying for the degree of Bachelor of Laws presented two of the arts subjects referred to in the regulations of the degree of Bachelor of Laws under which he qualified for that degree, may present five such subjects; (ii) he shall present a range of subjects which fulfils the requirements of the relevant schedule made under regulation 4; and (iii) he shall present two third-year subjects not presented for another degree.

(b) A candidate who holds a diploma may be granted such status in the course for the degree of Bachelor of Arts as the Faculty shall in each case determine; provided that if status be granted for more than three subjects the candidate shall surrender his diploma before being admitted to the degree.

14. No graduate who has obtained an Honours degree in a subject or field of study in another faculty may obtain the Honours degree of Bachelor of Arts in a corresponding subject, field of study, or school of the Faculty of Arts.

Regulations allowed 17 January, 1952.

Amended: 16 Mar. 1961: 11; 28 Jan. 1965: 2, 3, 9; 16 Dec. 1965: 5, 6, 13; 24 Dec. 1969: 4, 14; 17 Dec. 1970: 9, 13; 21 Dec. 1972: 4, 5, 9, 12; 15 Jan. 1976: 3, 13; 31 Jan. 1980: 13.

OF THE DEGREE OF
BACHELOR OF ARTS
SCHEDULES

(Made by the Council under regulation 3.)

NOTE: Syllabuses of subjects for the degree of B.A. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume. Notwithstanding the Schedules and Syllabuses published in this volume, a number of the units and options listed in the courses leading to the degrees of Bachelor of Arts and Bachelor of Science may not be offered in 1981. The availability of *all* subjects, units and options is subject to the availability of staff and facilities.

SCHEDULE I: SUBJECTS OF STUDY

1. The following shall be the subjects of classes and examinations:

GROUP A SUBJECTS AND HALF-SUBJECTS

1. Arts subjects

| | |
|--------------------------|--|
| EC01 Accounting I | AH01 History IA |
| AA01 Anthropology I | AH31 History IB |
| AQ01 Chinese I | AQ51 Introduction to Japanese Literature I |
| AC31 Classical Studies I | AQ21 Japanese I |
| UA11 Drama I | AQ31 Japanese IA |
| EE11 Economics I | AC01 Latin I |
| AE01 English I | AC41 Latin IA |
| AF01 French I | QM11 Mathematics IM |
| AF11 French IA | UA51 Music I |
| AJ01 Geography I | UA61 Music IA |
| AG01 German I | AP11 Politics IA |
| AG11 German IA | AP21 Politics IB |
| AC11 Greek I | AY01 Psychology I |
| AC71 GreekIA | EE71 Social Economics I |

Arts half-subjects

| | |
|--|------------------------------------|
| EE4F Economic History IH | QM7H Mathematics IH |
| EE5F Economic Institutions and Policy IH | EE1F Mathematics for Economists IH |
| AJ2H Human Geography IH | EE2G Microeconomics IH* |
| AL2H Logic IH | AL1H Philosophy IH(A) |
| EE1G Macroeconomics IH* | AL3H Philosophy IH(B) |
| EE2F Mathematical Economics IH | AJ1H Physical Geography IH |
| | SP9H Physics, Man and Society IH |

2. Science subjects

| | |
|-------------------------------|--------------------------------------|
| SZ71 Biology I | SG01 Geology I |
| SC01 Chemistry I | SP01 Physics I |
| | Science half-subjects |
| SP8H Astronomy IH | SJ7H Genetics and Human Variation IH |
| SB6H Botany IH | |
| SB5H Environmental Biology IH | |

3. Mathematical Sciences subjects

| | |
|--------------------|--|
| QM01 Mathematics I | |
| | Mathematical Sciences half-subjects |
| QA7H Computing IH | QT7H Statistics IH |

4. Architectural Studies subjects

| | |
|---|-------------------------------|
| RS11 Design Studies I | RS31 Art History and Theories |
| RS21 History and Theories of Architecture I | RS41 Visual Communication |

*The half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH are available only to students who have passed one of these half-subjects prior to 1981.

GROUP B SUBJECTS AND HALF-SUBJECTS

1. Arts subjects

| | |
|---|---|
| AC72 Ancient History II | AG02 German II |
| AA02 Anthropology IIA | AG12 German IIA |
| AA12 Anthropology IIB | AG87 German IIB |
| AA22 Anthropology IIC | AC12 Greek II |
| AQ42 Asian Civilisations: Past and Present II | AC82 Greek IIA |
| AQ02 Chinese II | AC77 Greek IIS |
| AC92 Classical Art and Archaeology II | AH02 History IIA |
| AC32 Classical Studies II | AH22 History IIB |
| UA12 Drama II | AQ52 Introduction to Japanese Literature II |
| EE22 Economic Statistics II | AQ22 Japanese II |
| EE32 Economic Statistics IIA | AC02 Latin II |
| AE02 English II | AC42 Latin IIA |
| AE22 English IIB | AC57 Latin IIS |
| AE32 English IIC | AL22 Logic II |
| AF02 French II | UA52 Music II |
| AF12 French IIA | AE87 Old and Middle English II |
| AF72 French IIB | AL02 Philosophy II |
| AJ12 Geography IIA | AP32 Politics IIA |
| AJ22 Geography IIB | AP42 Politics IIB |
| | AY02 Psychology II |

Arts combined subjects

See clause 8 below.

Arts half-subjects

| | |
|------------------------------|---------------------------------|
| EE6F Economic History IIH(A) | EE3G Macroeconomics IIH |
| EE7F Economic History IIH(B) | EE3F Mathematical Economics IIH |
| AJ7H Geography IIH | EE4G Microeconomics IIH |

2. Science subjects

| | |
|-------------------------------------|--|
| SY02 Biochemistry II | SO02 Organic Chemistry II |
| SB02 Botany II | SC02 Physical and Inorganic Chemistry II |
| SC12 Chemistry II | |
| SJ02 Genetics II | SP02 Physics II |
| SG02 Geology II | SS02 Physiology II |
| SG72 Geophysics II | SZ02 Zoology II |
| SK32 Microbiology and Immunology II | |

3. Mathematical Sciences subjects

| | |
|------------------------------|---------------------------------|
| QN22 Applied Mathematics IIA | QA12 Computing Science IIC |
| QN12 Applied Mathematics IIB | QT02 Mathematical Statistics II |
| QA02 Computing Science II | QM02 Pure Mathematics II |

4. Architectural Studies Subjects

| | |
|------------------------|---|
| RS12 Design Studies II | RS22 History and Theories of Architecture II. |
|------------------------|---|

GROUP C SUBJECTS AND HALF-SUBJECTS

1. Arts subjects

| | |
|--|---------------------------------------|
| AC73 Ancient History III | AC33 Classical Studies III |
| AA03 Anthropology IIIA | EE73 Economic Development Studies III |
| AA13 Anthropology IIIB | EE03 Economics III (Arts) |
| AA23 Anthropology IIIC | AE03 English IIIA |
| AA33 Anthropology IIID | AE13 English IIIB |
| AQ43 Asian Development III | AF03 French III |
| AQ03 Chinese III* | AF88 French IIIB |
| AC93 Classical Art and Archaeology III | |

*Not offered in 1981

| | |
|---------------------|---------------------------------|
| AJ13 Geography IIIA | AC67 Latin IIIS |
| AJ23 Geography IIIB | AL23 Logic III |
| AG03 German III | UA53 Music III |
| AG88 German IIIB | UA68 Music IIIS |
| AC13 Greek III | AE88 Old and Middle English III |
| AC78 Greek IIIS | AL03 Philosophy IIIA |
| AH03 History IIIA | AL13 Philosophy IIIB |
| AH13 History IIIB | AP03 Politics IIIA |
| AQ23 Japanese III | AP13 Politics IIIB |
| AC03 Latin III | AY23 Psychology III |

Arts combined subjects

See clause 8 below.

Arts half-subjects

| | |
|--------------------------------|--------------------------|
| AJ8H Geography IIHH | AY1H Psychology IIHH(A) |
| AL4H Philosophy IIHH* | AY2H Psychology IIHH(B) |
| AP1H Political Sociology IIHH* | SJ3H Social Biology IIHH |

2. Science subjects

| | |
|---|---|
| MA13 Anatomy and Histology III | SO03 Organic Chemistry III |
| MA43 Anatomy and Histology IIIM | SO83 Organic Chemistry IIIM |
| QN83 Applied Mathematics IIIM | MR43 Pharmacology III |
| SY03 Biochemistry III | MR53 Pharmacology IIIM |
| SY83 Biochemistry IIIM | SC13 Physical and Inorganic Chemistry IIIB |
| SB03 Botany III | SC83 Physical and Inorganic Chemistry IIIM |
| SB83 Botany IIIM | SP03 Physics III |
| SC23 Chemistry III | SP83 Physics IIIM |
| QA83 Computing Science IIIM | SS03 Physiology III |
| SJ03 Genetics III | SS83 Physiology IIIM |
| SG03 Geology III | QM83 Pure Mathematics IIIM |
| SG83 Geology IIIM | QF03 Theoretical Physics III |
| SG23 Geology and Economic Geology IIIA | SZ03 Zoology III |
| SG33 Geology and Economic Geology IIIB | SZ83 Zoology IIIM |
| SG73 Geophysics III | |
| SK33 Microbiology and Immunology III | |

3. Mathematical Sciences subjects

| | |
|-------------------------------|----------------------------------|
| QN03 Applied Mathematics III | QF13 Mathematical Physics III |
| QN13 Applied Mathematics IIIA | QT03 Mathematical Statistics III |
| QA03 Computing Science III | QM03 Pure Mathematics III |
| QA13 Computing Science IIIA | QM13 Pure Mathematics IIIA |

2. (a) No candidate will be permitted to count for the degree any subject or half-subject together with any other subject or half-subject which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject, or half-subject, may be counted twice towards the degree.†

(b) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

3. A candidate shall not present any of the following: EE2F Mathematical Economics IH, EE1F Mathematics for Economists IH, EE22 Economic Statistics II and EE32 Economic Statistics IIA unless he has also sat for the final examination in EE1G Macroeconomics IH and EE2G Microeconomics IH or EE11 Economics I.

4. A candidate shall not present more than two of AA03 Anthropology IIIA, AA13 Anthropology IIIB, AA23 Anthropology IIIC and AA33 Anthropology IIID.

* These half-subjects may only be taken with SJ3H Social Biology IIHH.

†A table of unacceptable combinations of subjects and half-subjects is given towards the end of this Volume (see Table of Contents).

5. A candidate who passes LL32 Constitutional Law II, LL02 The Law of Contract or subjects to the value of 9 points from the list in schedule 1(b) of the degree of Bachelor of Laws may present all or any of these as group A or group B subjects. For the purposes of this clause, Law subjects from the list in schedule 1(b) of the degree of Bachelor of Laws shall count as one subject only.

6. A candidate who enrolled as a matriculated student before 31 March, 1964, and passed in 101 Education before 31 March, 1966, may present that subject for either the Ordinary or the Honours degree.

7. When, in the opinion of the Faculty of Arts, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of clauses 1-5 above.

8. A candidate may, on the recommendation of the two departments concerned, and with the approval of the Faculty, present parts of two second-year or two third-year subjects *in lieu* of a second-year or third-year subject.

9. These schedules came into force on 1 January, 1973.

A candidate who enrolled as a matriculated student before 1 January, 1973, may continue under the regulations and schedules in force in 1972. Alternatively, he may complete his degree under the present regulations and schedules with such modifications as may be necessary to ensure that subjects validly passed under the 1972 or earlier schedules be counted *pro tanto* under the present schedules.

SCHEDULE II: THE ORDINARY DEGREE

1. To qualify for the Ordinary degree a candidate shall present nine subjects which shall include:

- (a) Not more than four subjects or their equivalent from group A.
- (b) At least two subjects or their equivalent from group C of which at least one must be chosen from group C.1 (Arts subjects and half-subjects) or C.3 (Mathematical Sciences subjects).
- (c) Not more than three subjects or their equivalent from group A.2 (Science subjects and half-subjects), B.2 (Science subjects), A.4 (Architectural Studies subjects) and B4 (Architectural Studies subjects) combined.
- (d) Not more than four subjects or their equivalent from group B.3 (Mathematical Sciences subjects) and C.3 (Mathematical Sciences subjects).

NOTES (not forming part of the regulations and schedules):

1. *Pattern of study.*

The Faculty of Arts recommends that the normal pattern of study for the Ordinary degree of Bachelor of Arts be four subjects in the first year, three in the second and two in the third.

2. *Arts combined subjects* (policy of the Faculty of Arts).

Parts of two second-year or two third-year subjects may be combined to make a single subject for the Ordinary degree provided that:

- (a) the subjects concerned can be readily divided into compatible parts;
- (b) no student doing such a combined subject will be required to do more work than if he were doing a single subject;
- (c) the student has satisfied the pre-requisites for entry to both of the subjects from which parts are being combined;
- (d) such combined subjects will be offered only on application by individual students, when there are adequate teaching resources available in the two departments, and when the two departments concerned agree that the combined subject is academically desirable;
- (e) the minimum part of a subject which may be combined will normally be one third (which will then be combined with two thirds of the other subject), although, in particular cases, applications for exceptions may be made.

It is envisaged that, normally, these subjects will help students prepare for combined Honours, but that, where academically desirable and agreed by the two departments concerned, they may be taken by students not intending to proceed to Honours.

3. *Work required to complete an Adelaide degree* (policy of the Faculty of Arts).

To qualify for the degree:

- (a) students who have completed most of the requirements for the degree of Bachelor of Arts at another institution will be required as a minimum to complete a full third-year's work in order to qualify for the Adelaide degree; and
- (b) with special permission of the Faculty, a student who has completed most of the subjects for the degree of Bachelor of Arts in Adelaide including one third-year subject may be permitted to complete the requirements for the degree at another institution.

All applications must be made in writing to the Academic Registrar.

4. *Study for the degrees of LL.B. and B.A. concurrently.*Candidates who wish to study for the degrees of LL.B. and B.A. concurrently should take their subjects according to one of the schemes outlined in the notes following the schedules of the degree of Bachelor of Laws (*see* Table of Contents).5. *Study for the degrees of B.Mus. and B.A. concurrently.*Candidates who wish to study for the degrees of B.Mus. and B.A. concurrently should take their subjects according to the scheme outlined in the notes following schedule I of the degree of Bachelor of Music (*see* Table of Contents).

SCHEDULE III: THE HONOURS DEGREE

1. A candidate for the Honours degree shall attend classes regularly and pass examinations in one of the following subjects:

| | |
|--|---|
| AA99 Honours Anthropology | AG99 Honours German Language and Literature |
| AC79 Honours Classical Studies | AC99 Honours Greek and Latin |
| EE99 Honours Economics | AH99 Honours History |
| AE99 Honours English Language and Literature | UA69 Honours Music |
| AF99 Honours French Language and Literature | AL99 Honours Philosophy |
| AJ99 Honours Geography | AP99 Honours Politics |
| | AY99 Honours Psychology |

or in a combination of subjects *or* part of one subject together with work in the Centre for Asian Studies. The combination requires Faculty approval and shall include such work as shall be deemed by the Faculty to be equivalent to a single subject, provided that one of the parts of the combination may be taken from a subject within *either* the Faculty of Mathematical Sciences *or* the Faculty of Science.

A candidate desiring to proceed to the Honours degree must, before enrolment, obtain the approval of the Chairman of the department concerned.

2. Subject to the approval of the Faculty in each case, a candidate may proceed to the Honours degree in a subject taught in a department in another faculty. The Chairman of the department concerned must seek that approval by 30 November of the preceding year.

A candidate wishing to proceed to Honours in subjects within the Faculty of Mathematical Sciences is referred to regulation 11 of the degree of Bachelor of Science in the Faculty of Mathematical Sciences.

3. A candidate for the Honours degree in any subject shall not begin Honours work in that subject until he has qualified for the Ordinary degree of Bachelor of Arts and has completed such pre-requisite subjects (if any) as may be prescribed in the Honours degree syllabus published in this Calendar.

4. Except by permission of the Faculty a candidate shall take the whole of the final examination for the Honours degree at the one annual examination.

OF THE DEGREE OF
BACHELOR OF ARTS
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Pre-requisite subjects:

Students are reminded that in order to proceed to the second year in any subject in the Faculty of Arts they must, in the case of any first-year subject or pre-requisite subject in which the pass list is published in two divisions, pass at Division I level or higher, unless special permission is obtained in writing from the Academic Registrar.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year test, essays or other written or practical work, final written examinations, *viva voce* examinations).

ANTHROPOLOGY.
FIRST YEAR.

AA01 Anthropology I.

No pre-requisite. Students will be expected to attend two lectures a week in addition to one tutorial and to submit written work when required.

The general aim of the course will be to consider a number of basic issues in Anthropology and the ways in which anthropologists have confronted them. In part, this will be done by an examination of some of the classic anthropological ethnographies (detailed descriptions of cultural and social behaviour in Western and non-Western settings).

Reading lists will be available from the department at the beginning of the year.

SECOND YEAR.

Pre-requisite: AA01 Anthropology I.

There are three subjects offered; each will involve two lectures and one tutorial a week. Students intending to proceed to third-year work in Anthropology must complete satisfactorily at least one of the subjects offered in Anthropology at second-year level. Those students planning to proceed to an Honours year in Anthropology must have satisfactorily completed *two* of the subjects, or their equivalent, offered in the second year.

Reading lists will be available from the department at the beginning of the year.

AA02 Anthropology IIA.**ECONOMIC AND POLITICAL ANTHROPOLOGY:**

The first part of the course will concern itself primarily with the organisation of production, distribution and consumption in small-scale social systems which are essentially unstratified and which lack highly formalised institutions of political control. Attention will be given to evolutionary perspectives and cultural ecology; kinship as it relates to economic processes; the sociology of material exchange; and some recent Marxist approaches to non-Western small-scale economies.

The second part of the course will examine societies which are highly stratified and exhibit marked inequalities in the distribution of wealth and political power. The lectures will be concerned with the institutions of kingship, the aristocracy and gentry, and the bureaucratic organisation of the State in ancient and modern non-Western contexts. Some of the specific topics to be examined will be modes of political succession, forms of political conflict and the factors underlying the transformation of socio-economic and political orders.

In dealing with these topics throughout the course attempts will be made to explicate with varying degrees of formality certain major theoretical perspectives in social anthropology.

AA12 Anthropology IIB.**RELIGION, RITUAL AND COMMUNICATION: THE ANTHROPOLOGY OF SYMBOLIC ACTION:**

This course examines the processes through which society and social action become meaningful. The primary focus will be on anthropological analyses of symbolic forms of communication and transformation as these reveal three perspectives on the nature of meaning and its relation to human thought and actions. The first perspective relates meaning to the symbolic and instrumental functions of ritual systems with particular reference to small-scale societies in Africa, Asia and Oceania. Structuralism constitutes the second perspective on meaning. Language and other communicative systems such as forms of art, myth and legend in both Western and non-Western societies are used as examples for how structural analysis is applied to discover their unconscious logic. The third perspective on meaning emphasises its conscious intentionality as actors give significance to their behaviour in social interaction. Religious cults, Asian cultural performances and millenarian movements provide the ethnographic studies through which interpretive methods of the analyses of meaning are explored.

AA22 Anthropology IIC.**CHANGE AND CONTROL IN MODERN SOCIETIES:**

This course aims at exploring varieties of systems of control, and the forces generating changes in them in different kinds of modern societies in their present and historical forms. Australian material will be used where appropriate. Emphasis will be placed on the different ways anthropologists and sociologists have researched and discussed these control systems and changes in them. The course will be divided into three sections, corresponding to terms which will consider successively the following problem areas:

Term 1: Control in and through formal organisations especially firms in Western industrial societies: the ways in which different parties in organisations obtain their ends. Government-industry relations and the socio-economic implications for society. The rise of the corporate economy and the growth of multi-national businesses.

Term 2. Change in control systems in colonial and post-colonial societies: changing political structures and the role of tradition; pluralism; development institutions and modernisation; new forms of control in urbanisation.

Term 3: Control of marginal peoples in Western industrial societies: ethnicity, welfare colonialism; manipulating bureaucracies; nationalistic movements.

THIRD YEAR.

Of the four third-year subjects in the Department of Anthropology, three will be given each year. They will each consist of two lectures and one tutorial a week throughout the year. Essays and tutorial assignments will constitute the major part of the assessment in each subject.

Students taking third-year subjects and planning to take the Honours course must complete any two of the three subjects offered.

It is advisable that students who are interested in eventually proceeding to Honours discuss their choice of subjects with the Chairman of the Department before enrolling.

Reading lists will be available from the department at the beginning of the year.

AA03 Anthropology IIIA.

ANTHROPOLOGY OF TRIBAL SOCIETIES:

Pre-requisite: Pass in one full course in Anthropology at second-year level.

Through the use of detailed ethnographic material (primarily from Australia and Oceania), this course will examine some of the major anthropological issues arising from studies of tribal societies. Initially attention will be directed to ideas regarding the nature and organisation of these systems. This will involve focusing on concerns such as subsistence bases, social organisation, the relationship between social organisation and productive activity, and forms of religious observance. From here the discussion will shift to centre on the subject of socio-cultural change, and in particular theories dealing with evolutionary development. Finally the impact of "colonial" expansion will be considered.

The lectures will assume a knowledge of the contents of M. Gluckman, *Politics, law and ritual in tribal society*, and M. D. Sahlins, *Tribesmen*.

AA13 Anthropology IIIB.

[Not offered in 1981.]

IDEOLOGIES AND INEQUALITY:

Pre-requisite: Pass in one full course in Anthropology at second-year level.

This course will examine the relationship between ideologies and social inequalities. A major question will be the nature of various social hierarchies and their economic and political foundations. Attention will also be paid to the role of religion as a basis for protest and economic change, and as a source of ideological legitimation, and a support for continuities in economic and social interaction. These will be surveyed in a variety of historical and contemporary contexts, with special attention to peasant societies. A major component of the course will be devoted to the caste systems of South Asia.

AA23 Anthropology IIIC.

SOCIAL ORGANISATION AND CULTURE:

Pre-requisite: Pass in one full course in Anthropology at second-year level.

The first part of this course takes up the problem of attributing rationality to individuals and to "structures" as these have been described and analysed by sociologists. In part, this involves the distinction that can be drawn between a scientific observer's criticism of rationality and that which counts as competent social action by people within a social situation. The problem will be examined through studies of work, education, ritual and other activity settings.

This topic will lead out to studies in the sociology of knowledge and "mass culture" which seek to typify, and explain, modes of thought characterising both specialist and "everyday" knowledge. Science, advertising and public entertainment will be topics examined in some depth.

The final section of the course will be concerned with recent anthropological approaches to the study of myths, rites, jokes and accusations.

AA33 Anthropology IIID.

CITIES AND TOWNS: CONTEXT, STRUCTURE AND CHANGE:

This course will examine the character and content of urban economic, social and political formations in non-Western and Western contexts (with the emphasis on the former). To some extent the course will focus on sociological processes as these have been described in specific geographical areas: for example, migration and early urbanisation will be examined in relation to central and west African settings, as will analysis of types of ethnicity, whilst the significance of caste in urban settings will be indicated by reference to south Asian ethnographic material, and the debate surrounding the culture of poverty will be considered apropos of Latin American shanty towns. In addition, however, the course will aim to describe processes common to most urban locations in the first or third worlds as, for example, with the nature of social differentiation, social class formation, and the variety of forms taken by class conflict.

Reading:

- Southall, A. (ed.), *Urban anthropology: cross cultural studies of urbanization* (O.U.P.).
 Gugler, J., and Flanagan, W. G. (eds.), *Urbanization and social change in West Africa* (C.U.P.).
 Cornelius, W., and Trueblood, F. (eds.), *Anthropological perspectives on Latin American urbanization* (Sage Publications).
 Lloyd, P. C., *Slums of Hope?* (Penguin).
 Banton, M. (ed.), *The social anthropology of complex societies* (Tavistock).
 Mitchell, J. C. (ed.), *Social networks in urban situations* (Manchester U.P.).

HONOURS DEGREE.**AA99 Honours Anthropology.**

A student who wishes to enrol for the Honours degree in Anthropology must have completed satisfactorily: (i) AA01 Anthropology I; (ii) two full subjects in Anthropology at second-year level, or their equivalent; and any two subjects in Anthropology given in the third year.

Honours in Anthropology is a full year's course, involving weekly seminars, essays, and a final dissertation. Students wishing to take Honours should consult the Chairman of the Department during their third-year's work. Admission to the programme is subject to approval by the Chairman.

CENTRE FOR ASIAN STUDIES.

The Centre for Asian Studies offers, for the Ordinary degree of Bachelor of Arts, subjects in modern Chinese language and civilisation and modern Japanese language and civilisation, and, subject to the availability of staff, the interdisciplinary subjects: AQ42 Asian Civilisations: Past and Present II and AQ43 Asian Development III. Students who successfully complete third-year language courses are eligible to enrol for a Joint Honours course supervised by the Centre and the Department concerned.

ASIAN DEVELOPMENT.**AQ42 Asian Civilisations: Past and Present II.**

(Offered subject to the availability of staff.)

Pre-requisites: Any first-year subject (or the equivalent in half-subjects) in the departments of Anthropology, Economics, Geography, History, Politics or the Centre for Asian Studies, or other appropriate subject approved by the Chairman of the Centre for Asian Studies. However, students are strongly recommended to take as one of their first-year subjects the History option: H102 Old Societies and New States.

The course will be conducted as two lectures and one tutorial a week throughout the year.

AQ42 Asian Civilisations: Past and Present II is an interdisciplinary course which will first explore the cultural and social roots from which Asian societies today have sprung and second, how these societies have sustained, or altered, the legacy of the past within the context of rapid change in the present. Through an examination of Asian religions, philosophies, arts, sciences and various systems of social, economic and political organisation, the course will examine how Asian societies have responded to such universal problems as man's relationship to nature and the cosmos and man's relationship to man in ways that contrast with the experience of Western civilisations.

In particular the course examines the similarities and contrasts between Asian countries in respect of the following key areas:

- (i) the philosophical, cultural and scientific concepts which have been central to traditional Asian civilisation and how those concepts have influenced social structures;
- (ii) the response of Asian societies to their environment in terms of economic growth, social organisation and technological development, and the influence of material factors on cultural concepts;
- (iii) those aspects of human relationships both within the family and in society at large on which Asian peoples have placed value and emphasis.

Introductory reading:

- Butwell, R., *Southeast Asia—a political introduction* (Praeger).
Benedict, R., *Chrysanthemum and the sword* (Routledge and Kegan Paul, paperback).
Elvin, M., *The pattern of the Chinese past* (Eyre Methuen).
Basham, A. L., *The wonder that was India* (Grove).

Additional references will be prescribed by the lecturers.

AQ43 Asian Development III.

(Offered subject to the availability of staff.)

Pre-requisite: A pass in any second-year subject. Subjects such as AQ42 Asian Civilisations: Past and Present II, H702 The Rise of China and Japan: Conflict and Crisis in Modern East Asia, P705 Chinese Politics, AA02 Anthropology IIA, P709 International Politics, P704 Third World Political Economy, H102 Old Societies and New States, H713 Nationalism and Revolution in South East Asia and EE7F Economic History IIB(B) (the Soviet economy) could provide a useful background to the course. Students in doubt about their suitability for the course should consult the Chairman of the Centre.

The course will provide an account of the problems faced by Asian societies as they seek to develop their economies and to improve the standards of living of their populations. The different interpretations of the problems of development, the colonial background, the important role of the international economy and the various strategies initiated by the governments in the region will be examined. Two lectures and a tutorial will be given each week for the first two terms. In third term, seminars based on student's project work will be organised.

Introductory reading:

- Bernstein, H. (ed.), *Development and underdevelopment* (Penguin).
George, S., *How the other half dies* (Penguin).
Myint, H., *South East Asia's economy* (Penguin).
Myrdal, G., *Asian drama* (Penguin or Pantheon, 3 vols. A condensed version is available).

(A list of further readings is available from the Centre Office.)

JOINT HONOURS IN ASIAN STUDIES.

Honours work in the Centre for Asian Studies is only available in the form of joint honours combining study in the Centre with study in another Department.

A student who wishes to enrol for the Joint Honours must:

- (a) have satisfactorily completed language courses offered by the Centre at third-year level; and
- (b) be acceptable as an honours candidate within the Department which is jointly participating in the student's honours programme.

Students wishing to take this option are advised to consult the Chairman of the Centre and the relevant Department as early as possible so that adequate arrangements for entry pre-requisites can be made.

The nature of the honours work undertaken and the balance between language work and work within the discipline shall be defined in consultation between the Chairman of the Department concerned, the Chairman of the Centre and the student; and requires the approval of the Faculty of Arts.

OTHER COURSES RELATED TO ASIAN REGIONS.

Attention is drawn to the many courses, related to Asian regions, which are offered in the Departments of Anthropology, Economics, Geography, History and Politics, and which may profitably be combined with study of the Chinese and/or the Japanese languages.

CHINESE LANGUAGE.

Students should note that because of restrictions in staffing, first, second and third year courses in Chinese cannot all be offered in each year. Instead a cyclical pattern of teaching has been adopted so that any student enrolling in Chinese I has the prospect of studying up to third year level in successive years. The cyclical pattern is as follows (X indicates that a course is NOT offered).

| Subject | Year | | | | | |
|-------------|------|------|------|------|------|------|
| | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 |
| Chinese I | | X | | | X | |
| Chinese II | | | X | | | X |
| Chinese III | X | | | X | | |

AQ01 Chinese I.

No previous knowledge of Chinese is required.

Five hours of class work a week plus a minimum of two hours supervised work in the language laboratory.

The course consists of the study of the basic grammar, vocabulary and structures of Modern Standard Chinese (Mandarin) with special emphasis on the style and usage found in China today. The students will learn approximately 650 basic Chinese characters and associated compounds concentrating on vocabulary which relates to contemporary China. In addition, there will be a series of occasional lectures on modern Chinese culture and society.

If enrolments are sufficient the course may be taught as two classes, each working in parallel; one class meets at 9 a.m. and the other class in the afternoon. The timing for the latter class is scheduled for 4.15 p.m. but if there is sufficient demand from people for whom that time is inconvenient, a different time can be arranged.

Text-books:

Elementary Chinese, parts 1 and 2 (Commercial Press, Beijing).

This course will be supplemented and expanded by materials prepared by the lecturers.

Dictionary:

Xinhua Zidian (Commercial Press, Beijing).

Wu, C. K., *Chinese to English dictionary* (Chinese Language Research Association, California).

AQ02 Chinese II.

Pre-requisite subject: AQ01 Chinese I at Division I standard or higher, or proof of attainment of an equivalent standard.

There will be five hours of class work a week plus a minimum of one hour supervised work in the language laboratory and one tutorial hour.

The course consists of tuition in the speaking, writing and reading of Modern Standard Chinese. The main emphasis is on building up vocabulary and reading experience as a basis for studying contemporary Chinese society and culture. It is anticipated that by the end of the year the student will know between 1,500 and 2,000 Chinese characters.

Text-books:

Modern Chinese reader, 2 parts (Commercial Press, Beijing).

These books will be supplemented by materials supplied by the lecturers.

Dictionaries:

Xinhua Zidian (Commercial Press, Beijing).

Jianhuazi Zongbiao Jianzi (Language Reform Press, Beijing).

Han-Ying Shishi Yongyu Cihui (Commercial Press, Beijing).

A Chinese-English Dictionary (Commercial Press, Beijing).

AQ03 Chinese III.

[Not offered in 1981.]

Pre-requisite: AQ02 Chinese II at Division I standard or higher, or proof of the attainment of a similar standard.

Students are advised that studying the following will provide further background information to the language work: AQ42 Asian Civilisations: Past and Present II, P705 Chinese Politics, H702 The Rise of China and Japan: Conflict and Crisis in Modern East Asia; or H102 Old Societies and New States.

The course aims to consolidate and extend the language skills already attained by means of further oral, reading, writing and translation practice. The emphasis will be on the application of the students' language training to the study of Chinese source materials reflecting contemporary Chinese culture and society. It is envisaged that by the end of the course, the students will have consolidated their linguistic skills, gained experience of reading modern literary and journalistic styles, and will be familiar with the historical and social background of the texts studied. It is proposed to assess the historical and literary aspects of the course by essay work.

The course will fall into two parts: intensive study of selected contemporary literary writings and extensive reading of documentary and other materials related to contemporary Chinese society. Texts studied in the intensive course will include selections from the short stories and essays by Lu Xun, China's leading literary figure in the 20th century, selections from highly influential stylists such as Ye Sheng-tao and others.

Texts studied in the extensive reading course include short selections from Mao Zedong, Deng Xiaoping and others.

A fuller list of prescribed texts can be obtained from the Centre for Asian Studies.

The course will also introduce the regular style of Chinese characters alongside the simplified form and the Wade-Giles system of romanisation.

Text-books:

- Xinhua Zidian* (Beijing).
- Jianhuazi Zongbiao Jianzi* (Beijing).
- Han-Ying Shishi Yongyu Cihui* (Beijing).
- Mathews Chinese English dictionary*.
- Brugger, B., *Contemporary China* (Croom Helm).
- A Chinese-English Dictionary* (Commercial Press, Beijing).
- Xiandai Hanyu Cidian* (Commercial Press, Beijing).

Other materials will be supplied by lecturers.

CHINESE POLITICS.

P705 Chinese Politics is one of the options available for AP32 Politics IIA or AP42 Politics IIB (at second-year level); and AP03 Politics IIIA or AP13 Politics IIIB (at third-year level). It is offered jointly by the Centre for Asian Studies and the Department of Politics.

Students wishing to enrol for Chinese Politics should enrol for one of the second or third year Politics subjects above, and indicate the option: P705 CHINESE POLITICS.

The detailed syllabus and reading list may be found below under Politics (Second Year).

INDONESIAN LANGUAGE.

Prospective students of Indonesian language should note that Flinders University teaches 37150 Indonesian I, 37250 Indonesian II and third-year topics in Indonesian (For details see Calendar of Flinders University). Adelaide students may be permitted to enrol in these subjects for credit to their Adelaide degrees. Such students need to obtain approval in writing from the Registrar and must comply with Flinders University enrolment procedures. If numbers warrant, lectures and tutorials will be held on the University of Adelaide campus.

37150 Indonesian I.

[Enrolment at Flinders University.]

No previous knowledge of Indonesian is required. Language classes and laboratory: 5 hours a week. Lectures/tutorials on social and cultural background: 1 hour a week.

The purpose of this topic is to give students a basic knowledge of spoken and written Indonesian and to provide an introduction to Indonesian society and culture. The topic assumes no previous knowledge of Indonesian, but special arrangements are made for students with such knowledge. Audio-lingual classroom and language laboratory sessions are held, as well as reading and conversation classes. Lectures and tutorials survey aspects of Indonesian culture and society, especially in the modern period, to provide an understanding of the cultural environment in which the language is used.

Assessment will be based on exercises, tests, tutorial preparation and class participation throughout the year.

Text-book (Language):

Johns, Y., *Bahasa Indonesia: Langkah Baru* (A.N.U. Press).

JAPANESE LANGUAGE.

AQ21 Japanese I.

There is no pre-requisite for AQ21 Japanese I, but a knowledge of Japanese to a satisfactory standard in the matriculation examination or similar equivalent qualification is assumed.

Five hours of class work a week plus language laboratory work.

The emphasis in this course will in the first instance be on the reinforcement of the skills of speaking and aural comprehension. During the course this will be combined with increased attention to the reading of contemporary texts.

Text-books:

(Prescribed):

Basic Japanese—A review text (Inter-University Centre for Japanese Language Studies in Tokyo).

Dictionary:

(Recommended):

Kōdansha Wa-Ei Jiten (Kōdansha).

AQ31 Japanese IA.

No previous knowledge of Japanese is required.

Six hours of class work a week plus language laboratory work.

This introductory course is designed to achieve a solid foundation in the basic grammar and vocabulary of modern spoken Japanese, together with a basic knowledge of the writing system. Emphasis will be on the intensive practice of oral skills through class lectures, practical tutorials and language laboratory sessions.

Text-book:

Mizutani, O., and Mizutani, N., *An introduction to modern Japanese* (The Japan Times, Ltd).

AQ22 Japanese II.

Pre-requisite: AQ21 Japanese I or AQ31 Japanese IA at Division I standard or higher, or equivalent.

Five hours of class work a week plus language laboratory work.

This intermediate course continues instruction and drill in the speaking, understanding, writing, and reading of modern Japanese. Throughout the course mastery of the conversational skills will be reinforced through oral-aural practice, and at the same time increased emphasis will be placed on reading contemporary texts.

Text-books:

(Prescribed):

Hibbett, H., and Itasaka, G., *Modern Japanese: a basic reader* (Harvard).

(Recommended):

A guide to reading and writing Japanese (Tuttle).

Dictionaries:

(Recommended):

Nelson, *Japanese-English character dictionary* (Tuttle).
Kōdansha Wa-Ei Jiten (Kōdansha).

AQ23 Japanese III.

Pre-requisite: AQ22 Japanese II or AQ32 Japanese IIA (before 1977) at Division I standard or higher, or equivalent.

Students are advised that studying the following is desirable: AQ42 Asian Civilisations: Past and Present II; and H702 The Rise of China and Japan: Conflict and Crisis in Modern East Asia.

Six hours of lectures and tutorials a week, plus language laboratory work.

This advanced course is a continuation of the course in modern Japanese for students who have reached a satisfactory intermediate level. Emphasis will be placed on widening students' experience of the grammatical structures, vocabulary and styles of the language and of its social and cultural background through work with original Japanese materials from a variety of modern sources. These will include selections from leading modern Japanese authors, and readings in the area of social and linguistic science; there will also be readings from Japanese newspapers. A short translation project in the area of students' interests may be required during third term.

Text-books:

(Prescribed):

Reading materials will be provided by the lecturers.

Dictionaries:

(Recommended):

Nelson, A. N., *Japanese-English character dictionary* (Tuttle).

Kenkyūsha's new Japanese-English dictionary (Kenkyūsha).

AN INTRODUCTION TO JAPANESE LITERATURE.

This course is offered at first- and second-year level. No particular knowledge of Japanese culture or of the Japanese language is assumed. Students taking the course at second-year level will be required to undertake additional work.

AQ51 Introduction to Japanese Literature I.

There is no pre-requisite for AQ51 Introduction to Japanese Literature I. The course will cover the full range of Japanese literature, from the seventh to the present century. The first term will focus on early prose and song, the development of court poetry, and the classical term works of fiction from the Hsian period. The second term will deal with medieval and Tokugawa-age works; drama (*Nō*, puppet theatre, *kubuki*) and *haiku* will be central concerns. The third term will be devoted to the modern novel, from its development in the 1880's up to fiction in the 1970's.

Tutorial sessions may involve reports on outside readings. Assessment will be based on short papers and a short exam each term.

Reading List:

Hibbett, H., *The floating world of Japanese fiction.*

Kawabata Yasunari, *Snow country.*

Keene, D., *Four major plays of Chikamatsu.*

Miner, E., *An introduction to Japanese court poetry.*

Mishima Yukio, *Confessions of a mask.*

Natsume, Sōseki, *Kokoro.*

Tanizaki Junichirō, *The Makioka sisters* (and other novels).

Waley, A., *The tale of Genji.*

(A fuller list is available from the Centre for Asian Studies.)

AQ52 Introduction to Japanese Literature II.

Pre-requisites: Any first year course in the Faculty of Arts. AQ21 Japanese I is highly recommended but not essential for the course.

Syllabus and reading list as for AQ51 Introduction to Japanese Literature I; but additional work will be set for students taking AQ52 Introduction to Japanese Literature II.

CLASSICS.

The editions of Greek and Latin texts mentioned below are not prescribed, but are recommended for the use of students.

Parts of the syllabuses may be examined separately during the year.

Before commencing Honours work in any subject, a student must have qualified for the Ordinary degree of Bachelor of Arts.

LATIN.

There are seven subjects in Latin for the Ordinary degree of Bachelor of Arts: AC41 Latin IA, AC01 Latin I, AC42 Latin IIA, AC02 Latin II, AC57 Latin IIS, AC03 Latin III and AC67 Latin IIIS. Except with the permission of the Faculty of Arts, no student proceeding to a degree may take the subject AC42 Latin IIA until he has passed in AC41 Latin IA, or the subject AC02 Latin II until he has passed in AC01 Latin I, or the subject AC03 Latin III until he has passed in *either* AC42 Latin IIA *or* AC02 Latin II *or* AC67 Latin IIIS. No subject is pre-requisite to AC01 Latin I, but the standard of Latin at the Matriculation Examination is assumed, and, in general, students are not advised to attempt the subject unless they have reached Grade C or higher in that examination.

Every student taking a subject in Latin should have a Latin-English lexicon.

AC41 Latin IA.

This subject aims to give students with no previous knowledge of the language a reading knowledge of Latin in one year. Students with some knowledge of the language will be advised by the Department concerning the level at which the language should be taken. The subject is countable as one of the required nine subjects towards the Ordinary degree. It occupies four hours of formal tuition a week. Tapes will be provided for use in the Language Laboratory in the first term. The subject is designed as a foundation course, to equip students to proceed at least to AC42 Latin IIA.

The following books will be used:

- Kinchin-Smith, F. J., *Latin* (English Universities Press).
Kennedy, B. H., *Revised Latin primer* (Longmans).

AC01 Latin I.

The subject is divided into two parts:

- (a) The study of three works of Latin literature:
Virgil, *Aeneid IV*, ed. R. G. Austin (O.U.P.).
Horace, *Odes I*, ed. H. E. Gould and J. L. Whiteley (Macmillan).
Suetonius, *Divus Julius*, ed. H. E. Butler and M. Cary (O.U.P.).

Each work is the subject of two weekly lectures in one term. The works may be examined separately during the year: passages from them are set for translation, short passages are set for comment, and an essay will also be set.

(b) A course to improve the students' knowledge of the language, and to widen their reading. The material that students will use will be issued during the year. There will be weekly written work and a weekly tutorial.

This subject is offered give sufficient enrolments.

AC57 Latin IIS.

This subject is available only to those who have been accepted as Honours students. It aims to give students with no previous knowledge of the language a reading knowledge of Latin in one year. It occupies four hours of formal tuition a week. Tapes will be provided for use in the Language Laboratory in the first term.

The books used are as set out in the syllabus for AC41 Latin IA.

AC42 Latin IIA.

Pre-requisite subject: AC41 Latin IA.

The syllabus is as set out for AC01 Latin I, with the addition of:

Sallust, *Rome and Jugurtha*, ed. J. R. Hawthorn (Macmillan), which is to be read before the start of the first term.

There will also be a second weekly tutorial involving language work.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January.

This subject is offered given sufficient enrolments.

AC02 Latin II.

The subject is divided into two parts:

(a) The study of four works of Latin literature:

Horace, *Odes III*, ed. J. Gow (C.U.P.).

Juvenal, *Satires*, ed. J. D. Duff (C.U.P.).

Histories I, ed. A. L. Irvine (Methuen).

Virgil, *Aeneid XII*, ed. W. S. Maguiness (Methuen).

The works may be examined separately during the year.

(b) A course in the practical criticism of selected passages and in Medieval Latin: there will also be exercises in unseen translation. The material will be issued during the year. There will be weekly tutorials throughout the year.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January to discuss vacation reading. It is intended that one of the set texts in (a) will have been read before the start of the first term.

This subject is offered given sufficient enrolments.

AC67 Latin IIIS.

Pre-requisite subject: AC57 Latin IIS.

This subject is available only to those who have been accepted as Honours students.

The syllabus is as set out for AC42 Latin IIA.

This subject is offered given sufficient enrolments.

AC03 Latin III.

The subject is divided into two parts:

(a) The study of seven works of Latin literature:

Lucretius V, ed. J. D. Duff (C.U.P.).

Propertius, *Elegies I*, ed. W. A. Camps (C.U.P.).

Cicero, *Pro Caelio*, ed. R. G. Austin (O.U.P.), in addition to the works prescribed for AC02 Latin II. The works may be examined separately during the year.

(b) A course in the practical criticism of selected passages and in Medieval Latin: there will also be exercises in unseen translation. The material will be issued during the year. There will be weekly tutorials throughout the year.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January to discuss vacation reading. It is intended that one of the set texts in (a) will have been read before the start of the first term.

This subject is offered given sufficient enrolments.

GREEK.

There are seven subjects in Greek for the Ordinary degree of Bachelor of Arts: AC71 Greek IA, AC11 Greek I, AC82 Greek IIA, AC12 Greek II, AC77 Greek IIS, AC13 Greek III and AC78 Greek IIIS. Except with the permission of the Faculty of Arts, no student proceeding to a degree may take the subject AC82 Greek IIA until he has passed AC71 Greek IA, or the subject AC12 Greek II until he has passed in AC11 Greek I, or the subject AC13 Greek III until he has passed in AC82 Greek IIA or AC12 Greek II or AC78 Greek IIIS. No subject is pre-requisite to AC11 Greek I, but in general, students are advised to have obtained the standard of Greek at a Matriculation examination.

Every student taking a subject in Greek should have a Greek-English lexicon.

AC71 Greek IA.

(This subject will be offered in 1981 subject to the availability of staff.)

This subject aims to give students with no previous knowledge of the language a reading knowledge of classical Greek in one year. Students with some knowledge of the language will be advised by the Department concerning the level at which the language should be taken. The subject is countable as one of the required nine subjects towards the Ordinary degree. It occupies four hours of formal tuition a week.

The subject is designed as a foundation course, and the aim is to enable students to proceed at least to AC82 Greek IIA in a subsequent year.

The following books will be used:

Joint Assn. of Classical Teachers, *Reading Greek*, 2 vols (C.U.P.).

McKay, K. L., *Croesus of Lydia* (A.N.U. Press).

AC11 Greek I.

The subject is divided into two parts:

(a) The study of three works of Greek literature:

Homer, *Odyssey VI and VII*, in *Odyssey I-XII*, ed. W. B. Stanford (Macmillan).

Herodotus *II*, ed. W. G. Waddell (Methuen).

Euripides, *Hippolytus*, ed. W. S. Barrett (Clarendon).

The works may be examined separately during the year: passages from them are set for translation, short passages are set for comment, and an essay will be set.

(b) A course to improve the students' knowledge of the language, and to widen their reading. The material that students will use will be issued during the year. It involves weekly written work and a weekly tutorial.

This subject is offered given sufficient enrolments.

AC77 Greek IIS.

(This subject will be offered in 1981 subject to the availability of staff.)

This subject is available only to those who have been accepted as Honours students. It aims to give students with no previous knowledge of the language a reading knowledge of classical Greek in one year. It occupies four hours of formal tuition a week.

The books used are as set out in the syllabus for AC71 Greek IA.

AC82 Greek IIA.

Pre-requisite AC71 Greek IA.

The syllabus is as set out for AC11 Greek I, with the addition of:

Xenophon, *Memorabilia I*, ed. G. M. Edwards (C.U.P.), which is to be read before the start of the first term.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January.

This subject is offered given sufficient enrolments.

AC12 Greek II.

The subject is divided into two parts:

- (a) The study of four works of Greek literature:
Aristophanes, *Wasps*, ed. D. M. MacDowell (C.U.P.).
Thucydides VI, ed. K. J. Dover (O.U.P.).
Sophocles, *Antigone*, ed. E. S. Shuckburgh (C.U.P.).
Lucian, *A selection*, ed. K. Sidwell (Bristol Classical Press).

The works may be examined separately during the year.

(b) Unprepared translation and the study of a literary genre; for 1981—Drama. There will be weekly tutorials and weekly written work.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January to discuss vacation reading. It is intended that one of the set texts in (a) will have been read before the start of the first term.

This course is offered subject to sufficient enrolments.

AC78 Greek IIIS.

Pre-requisite subject: AC77 Greek IIS.

This subject is available only to those who have been accepted as Honours students.

The syllabus is as set out for AC82 Greek IIA.

This course is offered subject to sufficient enrolments.

AC13 Greek III.

The subject is divided into two parts:

- (a) The study of seven works of Greek literature:
Homer, *Iliad I*, in *Iliad I-XII*, eds. W. Leaf and M. A. Bayfield (Macmillan).
Euripides, *Bacchae*, ed. E. R. Dodds (O.U.P.).
Plato, *Republic V*, ed. J. Adam (C.U.P.), in addition to the works prescribed for AC12 Greek II.

The works may be examined separately during the year.

(b) Unprepared translation and the study of a literary genre; for 1981—Drama. There will be weekly tutorials and weekly written work.

Students intending to enrol for the course should consult the Chairman of the Department as early as possible in January to discuss vacation reading. It is intended that one of the set texts in (a) will have been read before the start of the first term.

HONOURS DEGREE.**AC99 Honours Greek and Latin.**

The formal work of the Honours year will consist of regular reading in one or both ancient languages together with weekly essays; it is hoped to provide a course to suit the particular interests of individual students. The examination will test ability in unseen translation and knowledge of literature, together with other material in accordance with the special interests of the students. A student can specialise in Greek or Latin or do both languages. Depending on choice, pre-requisites are as follows:

For Greek: AC13 Greek III.

For Latin: AC03 Latin III.

For both Latin and Greek: *either* AC13 Greek III *and* AC57 Latin IIS or AC41 Latin I *or* AC03 Latin III *and* AC77 Greek IIS or AC11 Greek I.

CLASSICAL STUDIES.

There are three subjects in Classical Studies for the Ordinary degree of Bachelor of Arts: AC31 Classical Studies I, AC32 Classical Studies II and AC33 Classical Studies III. Except with the permission of the Faculty of Arts, no student proceeding to a degree may take the subject AC32 Classical Studies II until he has passed in AC31 Classical Studies I, or the subject AC33 Classical Studies III until he has passed *either* in AC32 Classical Studies II *or* both AC31 Classical Studies I and AC72 Ancient History II. No subject is pre-requisite to AC31 Classical Studies I.

In these subjects classical literature is studied in translation, and no knowledge of Greek or Latin is required.

AC31 Classical Studies I is available to approved students with exemption from lectures in special circumstances approved by the Chairman of the Department of Classics but students are required to attend all tutorials.

AC31 Classical Studies I.

The subject forms an introduction to the classical world, and is concerned with the literature of classical Greece and its social and cultural background. Homer and Greek lyric are studied in first term; Greek tragedy in second term; Greek comedy and late epic in third term. As an example of the method that is followed, the treatment of the epic is as follows: there is the lecture a week and tutorials on epic literature, combining a broader survey with detailed study of the *Iliad* and the *Odyssey*. The tutorial, for which preparatory reading is set, is connected with the lectures. A second lecture a week is given in a general course intended to provide background for the literary studies. Topics include Mycenaean civilisation, Homeric society, religion, archaeology, etc.

Parts of the syllabus may be examined separately during the year.

FIRST TERM.

Introductory reading:
Beye, C. R., *The Iliad, the Odyssey and the epic tradition* (Macmillan).

Texts which students should obtain:
The Iliad of Homer, tr. R. Lattimore (Chicago U.P.).
Homer, The Odyssey, tr. R. Lattimore (Harper & Row).

Cyclostyled sheets containing lyric poems for study will be made available to students.

SECOND TERM.

Introductory reading:
Lesky, A., *Greek tragedy* (Benn paperback).

Texts which students should obtain:
Aeschylus, *Oresteia*, tr. R. Fagles (Penguin or Bantam paperback).
Sophocles, *Antigone* and *Oedipus the King*, in *The Theban plays*, tr. E. F. Watling (Penguin).
Sophocles, *Women of Trachis*, in *Ajax, Electra and other plays*, tr. E. F. Watling (Penguin).
Euripides, *Medea*, in *Medea and other plays*, tr. P. Vellacott (Penguin).
Euripides, *Bacchae*, in *The Bacchae and other plays*, tr. P. Vellacott (Penguin).

THIRD TERM.

Texts which students should obtain:

- Euripides, *Alcestis*, in *Alcestis and other plays*, tr. P. Vellacott (Penguin).
 Euripides, *Helen*, in *The Bacchae and other plays*, tr. P. Vellacott (Penguin).
 Aristophanes, *Birds*, in *Aristophanes, The Birds and other plays*, tr. D. Barrett (Penguin).
 Aristophanes, *Clouds*, in *Lysistrata and other plays*, tr. A. H. Sommerstein (Penguin).
 Aristophanes *Lysistrata*, in *Lysistrata and other plays*, tr. A. H. Sommerstein (Penguin).
 Apollonius of Rhodes, *The voyage of Argo*, tr. E. V. Rieu (Penguin).

AC32 Classical Studies II.

Pre-requisite subject: AC31 Classical Studies I.

In the first term students may opt to do a course in Greek art and archaeology *or* in Roman poetry; in the second term the options are Greek art and archaeology *or* Pastoral, satire and the novel; in the third term Greek art and archaeology *or* Comparative Literature *or* Narrative and didactic poetry.

The options which make up this subject may also be taken in AC33 Classical Studies III; some of these may also be taken in AC92 Classical Art and Archaeology II. No option may be counted twice; furthermore, if C701 has been counted before 1979, neither C703 nor C705 may now be counted. Options C703, C705, C715 (on Roman art and archaeology) will be available in 1982. Options are offered as staff and enrolments allow.

FIRST TERM.**C701 GREEK ART AND ARCHAEOLOGY (1).**

This option covers Art and Archaeology from the earliest times: Ancient Egypt, Minoan Crete and Mycenae. It also deals with Greek pottery, sculpture and architecture up to about 500 B.C.

Text which students should obtain:

- Cook, R. M., *Greek art* (Penguin).

OR

C702 ROMAN POETRY.

Introductory reading:

- Higginbotham, J. C. (ed.), *Greek and Latin literature, a comparative study*, chaps. II, III and VI.

Texts which students should obtain:

- Catullus, *The poems*, tr. J. Michie (Panther).
 Horace, *The Odes*, tr. J. Michie (Penguin).
 Ovid, *Amores*, tr. G. Lee (Murray paperback).
 Virgil, *The Aeneid*, in *The Eclogues, Georgics and Aeneid of Virgil*, tr. C. Day Lewis (O.U.P. paperback).

SECOND TERM.**C711 GREEK ART AND ARCHAEOLOGY (2).**

This option continues the study of Greek art and architecture through the Classical period of 5th century Athens and surveys the Hellenistic art of the successors of Alexander the Great.

Text which students should obtain:

- Cook, R. M., *Greek art* (Penguin).

OR

C704 PASTORAL, SATIRE AND THE NOVEL.

(a) *Pastoral*.

Introductory reading:

Higginbotham, J. C. (ed.), *Greek and Latin literature, a comparative study*, chap. IV (Methuen university paperback).

Texts which students should obtain:

The Idylls of Theokritos, tr. B. Mills (Purdue).

Virgil's *Eclogues*, in *The Eclogues, Georgics and Aeneid of Virgil*, tr. C. Day Lewis (O.U.P. paperback).

(b) *Satire*.

Texts which students should obtain:

Satires of Horace and Persius, ed. N. Rudd (Penguin).

Juvenal, *The sixteen satires*, tr. P. Green (Penguin).

(c) *The Novel*.

Texts which students should obtain:

Petronius, *The satyricon and the fragments*, tr. J. P. Sullivan (Penguin).

Apuleius, *The golden ass*, tr. R. Graves (Penguin).

THIRD TERM.

C712 GREEK ART AND ARCHAEOLOGY (SPECIAL TOPICS).

This option involves the study of two topics: (1) Greek pottery, involving a study of a special period and also the methods of manufacturing pottery; (2) The Athenian Agora, involving a study of the archaeological dig reports.

(Note: This option may not be attempted unless at least one of C701 and C711 has been previously studied.)

Text which students should obtain:

Cook, R. M., *Greek art* (Penguin).

OR

C706 COMPARATIVE LITERATURE.

For syllabus see under "Comparative Literature" immediately after the Classics syllabuses.

OR

C710 NARRATIVE AND DIDACTIC POETRY.

Texts which students should obtain:

Hesiod, *Theogony and Works and days*, in *Hesiod and Theognis*, tr. D. Wender (Penguin).

The Idylls of Theokritos, tr. B. Mills (Purdue).

Ovid, *The Metamorphoses*, tr. H. Gregory (Mentor).

Lucretius, *On the nature of things*, tr. S. P. Bovie (New American Library).

Virgil, *The Georgics*, in *The Eclogues, Georgics and Aeneid of Virgil*, tr. C. Day Lewis (O.U.P.).

Ovid, *The art of love*, tr. R. Humphries (Indiana U.P. paperback).

AC33 Classical Studies III.

Pre-requisite subjects: *Either* AC32 Classical Studies II *or* both AC31 Classical Studies I and AC72 Ancient History II.

In the first term students may opt to do a course in Greek art and archaeology *or* in Ancient Philosophy *or* in Roman poetry. In the second term the options are Greek art and archaeology *or* Later Roman Empire *or* Pastoral, satire and the novel; in the third term Greek art and archaeology *or* Comparative Literature *or* Narrative and didactic poetry. Options are offered as staff and enrolments allow.

For restrictions on options which may be taken, see the introduction to AC32 Classical Studies II.

FIRST TERM.**C701 GREEK ART AND ARCHAEOLOGY (1).**

The syllabus is as for AC32 Classical Studies II; but additional work will be set for AC33 Classical Studies III students.

OR

C708 ANCIENT PHILOSOPHY.

The aim of the subject is to introduce some of the main ideas of the philosophers considered, and to relate the philosophies to the Greek society in which they arose and the Roman society in which some of them flourished. The main topics considered are: 1. The fifth century Athenian Enlightenment: The Sophistic Movement, including Socrates; 2. Classical Greek philosophers: Plato and Aristotle; 3. Philosophies of the Hellenistic and Roman periods: Stoicism and Epicureanism.

Texts which students should obtain:

Plato, *Last days of Socrates*, tr. H. Tredennick (Penguin).

Plato, *Republic*, tr. H. D. P. Lee (Penguin).

Aristotle, *Ethics*, tr. J. A. K. Thomson (Penguin).

Seneca, *Letters from a stoic*, tr. R. Campbell (Penguin).

Lucretius, *On the nature of things*, tr. S. P. Bovie (New American Library).

A reading list will be issued during the year.

Recommended preliminary reading:

Cornford, F. M., *Before and after Socrates* (C.U.P.).

OR

C702 ROMAN POETRY.

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students.

SECOND TERM.**C711 GREEK ART AND ARCHAEOLOGY (2).**

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students.

OR

C709 LATER ROMAN EMPIRE.

This course is concerned with the Graeco-Roman world of the 4th and 5th centuries A.D. A period of decline and sterility or a period of change and dynamism? The art and literature of the age will be looked at, and particular consideration will be given to problems such as the relationship between paganism and Christianity, and the reasons for the disintegration of the Roman Empire in the West.

Assessment will be by tutorial papers, diagrams and a 2,500 word essay. No exam.

Books students should obtain:

Brown, P., *The world of late antiquity* (Thames and Hudson).
St. Augustine, *Confessions* (Penguin).
Isbell, H., *The last poets of imperial Rome* (Penguin).

The following list of recommended books gives some idea of the scope of the course:

Binns, J. W. (ed.), *Latin literature of the fourth century* (Routledge).
Brown, P., *Augustine of Hippo* (Faber).
Chadwick, H., *The early church* (Pelican).
Chambers, M. (ed.), *The fall of Rome* (Holt, Rhinehart and Winston).
Jones, A. H. M., *The decline of the ancient world* (Longmans).
Laistner, M. L. W., *Christianity and pagan culture in the late Roman Empire* (Cornell).
Gough, M., *The origins of Christian art* (Thames and Hudson).
Momigliano, A., *The conflict between paganism and Christianity in the fourth century* (Clarendon).

OR

C704 PASTORAL, SATIRE AND THE NOVEL.

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students.

THIRD TERM.

C712 GREEK ART AND ARCHAEOLOGY (SPECIAL TOPICS).

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students.

OR

C706 COMPARATIVE LITERATURE.

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students. For syllabus see under "Comparative Literature" immediately after the Classics syllabuses.

OR

C710 NARRATIVE AND DIDACTIC POETRY.

The syllabus is as for AC32 Classical Studies II, but additional work will be set for AC33 Classical Studies III students.

HONOURS DEGREE.

AC79 Honours Classical Studies.

Students wishing to take an Honours degree in Classical Studies should consult the Chairman of the Classics Department, if possible before beginning the second year's work.

Before proceeding to the fourth and final year of Honours work, they will be required to have reached an acceptable standard in AC31 Classical Studies I; in AC33 Classical Studies II or AC72 Ancient History II or AC92 Classical Art and Archaeology II; in AC33 Classical Studies III or AC73 Ancient History III or AC93 Classical Art and Archaeology III; and in one of AC13 Greek III, AC78 Greek IIIS, AC03 Latin III, AC67 Latin IIIS.

The Department may at its discretion vary the language pre-requisite for a candidate who intends to take the History option (b) (ii) below in the Honours year, and accept, in lieu of Greek IIIS or Latin IIIS, Greek IIS or Latin IIS plus a language test on material studied during the long vacation preceding the Honours year.

The work of the Honours year will consist of:

(a) the study of Greek or Latin texts in the original language, in 1981 any *three* of the following:

Thucydides I
Homer *Iliad* I
Euripides *Alcestis*
Herodotus VI
Horace *Odes* III
Virgil *Georgics* I and IV
Tacitus *Histories* I
Suetonius *Divus Julius*
Vitruvius
Propertius II
Pliny *Natural History XXXVI*
Pausanias I
Plutarch, *Pericles*

Candidates must offer at least one of the above texts for examination at the beginning of the first term.

(b) the study of Greek and Roman antiquity, with emphasis on *either*

- (i) the literary remains, under set topics, *or*
- (ii) Greek and Roman history, under set topics, *or*
- (iii) the remains of the material culture.

(c) a special topic chosen from the field of classical studies, or ancient history, or art and archaeology, in accordance with the interests of the candidate, which will be the subject of a long essay to be written during the year.

The exact arrangement of the course may be varied by the Chairman of the Department in accordance with the interests of the students and the availability of specialised teaching.

AC72 Ancient History II.

Second-year subject. Pre-requisite: AC01 Latin I *or* AC11 Greek I *or* AC31 Classical Studies I *or* AH01 History IA *or* AH31 History IB *or* AH41 History IC *or* AP01 Politics IA *or* AA01 Anthropology I. Not available to students with exemption from lectures. No knowledge of Latin or Greek is assumed.

Roman and Greek history will be offered in alternate years; Roman history is offered in odd years and Greek history in even years. It is not possible either to study Greek (or Roman) history for two years or to take two Ancient History courses in the same year.

ROMAN HISTORY 133 B.C.—180 A.D.

The course is concerned with the political and social history of Rome. In the first term the period 133 B.C.—27 B.C. will be studied; in the second term 27 B.C.—180 A.D.; in the third term a special topic; in 1981 the topic will be *Treason, alienation, and unrest in the Roman empire*. This topic involves the study of phenomena such as provincial and slave revolts, urban and rural violence, counter-cultures, millennialism, and aristocratic and philosophic opposition to autocrats.

Text-books which students should obtain:

Scullard, H. H., *From the Gracchi to Nero* (Methuen); *or*
Cary, M., *History of Rome* (Macmillan).
Plutarch, *Makers of Rome* (Penguin).
Plutarch, *Fall of the Roman republic* (Penguin).
Suetonius, *The twelve Caesars* (Penguin).
Tacitus, *The Annals* (Penguin).

AC73 Ancient History III.

Pre-requisite: AC72 Ancient History II *or* AH02 History IIA *or* AC32 Classical Studies II *or* AC92 Classical Art and Archaeology II. AC73 may not be counted together with AC72 Ancient History II if AC72 was taken before 1978. The syllabus is as for AC72 Ancient History II, but additional work will be set for AC73 students. Roman history is offered in odd years and Greek history in even years.

AC92 Classical Art and Archaeology II.

Pre-requisite: Any first-year subject.

The course will presuppose a general knowledge of the Greek and Roman world approximately to Pass standard at Matriculation Classical Studies or Ancient History. It consists of the Art and Archaeology options available for AC32 Classical Studies II or AC33 Classical Studies III, but does not require AC31 Classical Studies I as a pre-requisite and does not qualify students to proceed to AC33 Classical Studies III.

For restrictions on the options available to students who are also attempting AC32 or AC33 see the notes on AC32 Classical Studies II. The syllabus is as for the options C701, C711, C712, which are listed under AC32. Roman art and archaeology is offered in even years and Greek art and archaeology in odd years. It is not possible either to study Roman (or Greek) art and archaeology for two years or to take two Art and Archaeology courses in the same year.

AC93 Classical Art and Archaeology III.

Pre-requisite: AC92 Greek Art and Archaeology II *or* AC32 Classical Studies II *or* AC72 Ancient History II *or* AC02 Latin II *or* AC12 Greek II.

The syllabus is as for AC92 Classical Art and Archaeology II, but additional work will be set for AC93 Classical Art and Archaeology III students.

For restrictions on the options available to students who are also attempting AC32 or AC33 see the Notes on AC32 Classical Studies II. Roman art and archaeology is offered in even years and Greek art and archaeology in odd years.

COMPARATIVE LITERATURE.

(OPTION FOR THE DEGREE OF BACHELOR OF ARTS)

C706 COMPARATIVE LITERATURE.

This option is available in 1981 to all students of AE03 English IIIA, AF03 French III, AG02 German II, AG12 German IIA, AG03 German III, AC32 Classical Studies II and AC33 Classical Studies III. It will be taught on an interdisciplinary basis and is the equivalent of one-third of a subject. The course will be offered in term 3 and will consist of sixteen lectures and eight tutorials.

All students taking this course must enrol for Unit/Option C706 Comparative Literature in the Unit/Option section of the enrolment form.

The course is entitled *The Classical World and Political Drama*. Problems of studying literature in translation will be considered in lectures and tutorials. There will also be introductory lectures on the theory and scope of studies in Comparative Literature, based partly on S. S. Praver, *Comparative literary studies* (Duckworth), which is required reading.

Texts which students should obtain:

- Aeschylus, *Eumenides*, in *The Oresteia* (Penguin).
 Euripides, *Orestes*, in *Orestes and other plays* (Penguin).
 or in *Euripides IV*, in *The Complete Greek Tragedies*, ed. Grene and Lattimore
 (Phoenix).
 Sophocles, *Antigone*, in *The Theban plays* (Penguin).
 Shakespeare, *Coriolanus* (Penguin or Arden).
 Jonson, *Sejanus* (New Mermaid).
 Kleist, *Prince Frederick of Homburg* (New Directions).
 Shaw, *St. Joan* (Penguin).
 Anouilh, *Antigone* (Methuen).
 Sartre, *The flies* (any available edition).
 Brecht, *Coriolanus*, vol. 9 of *Brecht's plays* (Pantheon).

DRAMA.

(FOR THE DEGREE OF BACHELOR OF ARTS)

The course offered in Drama will deal with the history and development of theatre arts and the theory and practice of drama.

Assessment will be a continuous process based on the written and practical work of students throughout the year.

All students must participate in a full-scale course production in the May vacation.

UA11 Drama I.

UA11 Drama I is a subject for the Ordinary degree of Bachelor of Arts and an elective subject for the Bachelor of Music Degree.

This subject consists of one lecture a week on the history and development of theatre arts and one tutorial and one practical session a week in the theory and practice of drama. A quota of 50 students is imposed on UA11 Drama I. Selection is based on matriculation results.

Students are advised to read the following text before the beginning of Term I:
 Brockett, O. G., *The theatre: an introduction* (Holt, Rhinehart and Winston).

For further information and booklist contact the Drama Office.

UA12 Drama II.

UA12 Drama II is a subject for the Ordinary degree of Bachelor of Arts.

This subject consists of one lecture a week on the history and development of theatre arts, plus one tutorial and two practical sessions a week in the theory and practice of drama.

UA12 Drama II has a pre-requisite of UA11 Drama I. A quota of 20 students is imposed: selection is based on a credit standard in UA11 Drama I.

Students are advised to read the following text before the beginning of Term I:
 Brockett, O. G., *The theatre: an introduction* (Holt, Rhinehart and Winston).

For further information and booklist contact the Drama Office.

ECONOMICS.

(FOR THE DEGREE OF BACHELOR OF ARTS)

It is possible for Arts students to take first- and second-year subjects and/or half-subjects in Economics which will enable them to take either one or even two Economics subjects in the third year of the course for the degree of Bachelor of Arts. Courses in Economics forming such a sequence are the subject EE11 Economics I (or the two half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH which are also available only to students who have passed *one* of these before 1981); the half-subjects EE3G Macroeconomics IIH and EE4G Microeconomics IIH; and EE03 Economics III (Arts) and/or EE73 Economic Development Studies III.

Arts students may also take the following subjects and half-subjects in Economics: In first year, EE1F Mathematics for Economists IH or EE2F Mathematical Economics IH, EC01 Accounting I, EE4F Economic History IH and EE5F Economic Institutions and Policy IH, and in second year EE22 Economic Statistics II or EE32 Economic Statistics IIA, EE6F Economic History IIH(A), and EE7F Economic History IIH(B).

The subject EE71 Social Economics I is designed for students who intend to take only a one-year course in Economics, and all such students are recommended to take it instead of the subject EE11 Economics I. It will not be accepted as qualifying a student to enrol in the second-year half-subjects EE3G Macroeconomics IIH and EE4G Microeconomics IIH, except that students who have passed with credit in EE71 Social Economics I may, with the approval of the Dean of the Faculty of Economics, be permitted to enrol in the two second-year half-subjects EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

EE71 Social Economics I.

This course comprises two lectures and one tutorial a week. Its scope is as follows:

The economic basis of social welfare, with special reference to the following topics: demand and supply; competition and monopoly; distribution of income and wealth; international trade; national accounting; money and banking; theory of employment; government policy in depression and inflation; an introduction to the process of development in developing countries.

Preliminary reading:

Heilbroner, R. L., *The worldly philosophers* (Prentice-Hall).

Kasper, W., *Issues in economic policy. an introduction for Australian students* (Macmillan).

Text-book:

Samuelson, P. A., and others, *Economics*, Australian edition (McGraw-Hill).

Note: Text-book may be changed following receipt of advice of new text-book from publishers.

SUBJECTS IN ECONOMICS AND COMMERCE.

(FOR THE DEGREE OF B.A.)

For syllabuses see under the degree of B.Ec. in the Faculty of Economics.

FIRST YEAR.

(Group A subjects and half-subjects.)

EC01 Accounting I.

EE11 Economics I.

EE1G Macroeconomics IH.*

EE1F Mathematics for Economists IH;

OR

EE2F Mathematical Economics IH.**EE2G Microeconomics IH.*****EE4F Economic History IH.****EE5F Economic Institutions and Policy IH.**

*The half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH are available only to students who have passed one of them prior to 1981.

SECOND YEAR.

(Group B subjects and half-subjects.)

EE6F Economic History IIH(A).**EE7F Economic History IIH(B).****EE22 Economic Statistics II.****EE32 Economic Statistics IIA.****EE3G Macroeconomics III.****EE3F Mathematical Economics IIIH.****EE4G Microeconomics IIIH.****THIRD YEAR.**

(Group C subjects.)

Arts students who have passed the necessary pre-requisite subjects and half-subjects may take either or both of the subjects EE03 Economics III (Arts) and EE73 Economic Development Studies III.

EE03 Economics III (Arts).

EE03 Economics III (Arts) is available to candidates proceeding to the degree of Bachelor of Arts.

A candidate who wishes to present EE03 Economics III (Arts) towards the degree must take EE33 Economics IIIA and one half-subject from the following list:

- EE4H Agricultural Economics IIIH.
- EE8H Econometrics IIIH.
- EE8G Economic History IIIH.
- EE8F Economic Theory IIIH.
- EE9G Economics of Antitrust and Regulation IIIH.
- EE3H Economics of Labour IIIH.
- EE7H Managerial Economics IIIH.
- EE2H Public Finance IIIH.

EE73 Economic Development Studies III.

Pre-requisite subjects: The student should have passed both EE3G Macroeconomics IIIH and EE4G Microeconomics IIIH.

EE73 Economic Development Studies III is available to candidates proceeding to the degree of Bachelor of Arts. A candidate who wishes to present EE73 Economic Development Studies III must study the subject EE13 Economic Development III and *one* of the half-subjects EE2H Public Finance IIIH or EE4H Agricultural Economics IIIH or EE8G Economic History IIIH, provided that a half-subject may not be counted towards both EE03 Economics III (Arts) and EE73 Economic Development Studies III.

For syllabuses of this subject and these half-subjects see under the degree of B.Ec. in the Faculty of Economics.

HONOURS DEGREE.

EE99 Honours Economics (for B.A. and B.Ec.).

Pre-requisite subject for B.A. candidates: EE03 Economics III (Arts) (including EE33 Economics IIIA and EE8F Economic Theory IIIH).

For syllabuses see under the degree of B.Ec. in the Faculty of Economics.

ENGLISH LANGUAGE AND LITERATURE.

AE01 English I, AE02 English II, AE22 English IIB, AE32 English IIC, AE03 English IIIA, AE13 English IIIB, AE87 Old and Middle English II, AE88 Old and Middle English III, are subjects for the Ordinary degree of Bachelor of Arts. No student proceeding to a degree may, without special permission, normally take any second year subject offered by the Department until he has passed the final examination in AE01 English I. Exceptions to this, and pre-requisites of all English Department subjects, are as set out in relation to specific courses below.

The subjects are made up of lectures and tutorials. Since the tutorial groups are small, and are arranged as far as possible at times to suit the best convenience of both students and tutors, all students must attend the preliminary meeting held in the first week of the first term in each year, at which the tutorial time-table is fixed.

In AE01 English I and AE02 English II there are two lectures and one tutorial a week. In AE03 English IIIA, three lectures and one tutorial.

AE01 English I, AE02 English II and AE03 English IIIA may be available to certain approved students in special circumstances with exemption from classes. However, it is advisable that students wishing to take these subjects externally should obtain the permission of the Chairman of the Department before enrolling.

Reference books will be prescribed before the start of the teaching year or in lectures. For additional information on this and on alternative editions of the set texts students are advised to contact the departmental office.

AE01 English I.

There are no pre-requisites for AE01 English I, but a knowledge of English literature and a facility in English expression of Matriculation standard are desirable. Students who have reason to think they do not meet this standard are advised to consult the Chairman of the Department before enrolment.

The aim of this course is to introduce students to some characteristic features of language and literature, and also to the critical vocabularies used to describe them.

I. INTRODUCTION TO LITERARY STUDY.

(a) *Poetic forms and genres.*

Text:

The Norton anthology of poetry (revised shorter edition).(b) *Aspects of the Novel.*

Texts:

Dickens, *Great expectations* (Penguin).James, *Washington Square* (Penguin).Conrad, *Heart of darkness* (Penguin).D. H. Lawrence, *The rainbow* (Penguin).(c) *Aspects of Drama.*

Texts:

Shakespeare, *Twelfth night* (Arden or Signet editions).Shakespeare, *King Lear* (Arden or Signet editions).Synge, *The playboy of the western world* (Methuen).Beckett, *Waiting for Godot* (Faber).(d) *Introduction to Australian Literary Study.*

Texts:

Spence, *Clara Morison* (Seal).Clarke, *For the term of his natural life* (Angus & Robertson).Lawson, *Best stories of Henry Lawson* (Angus & Robertson).White, *The aunt's story* (Penguin).Heseltine (ed.), *The Penguin book of Australian Verse.*

II. INTRODUCTION TO LANGUAGE STUDY.

(a) *Historical Study of the English Language.*

Text:

O. Jespersen, *Growth and structure of the English language* (Blackwell).(b) *Descriptive Linguistics.*

Text:

David Crystal, *Linguistics* (Penguin).**AE02 English II.**

Pre-requisite subject: AE01 English I.

A study of English Literature and Drama with special but not exclusive reference to the works listed. This study will comprehend all three sections.

A. ROMANTIC AND VICTORIAN POETRY.

Blake, *A selection of poems and letters* (Penguin).Wordsworth, *Selected poetry and prose* (Signet) or *Selected poems and prefaces* (Riverside).Coleridge, *Selected poems* (New Oxford English Series).Shelley, *Poetry and prose* (Norton Critical Edition).Keats, *Selected poems and letters* (Riverside).Tennyson, *In memoriam, Maud and other poems* (Dent).Browning, *Selected poetry* (Rinehart editions).Hopkins, *Poems and prose* (Penguin).Hardy, *Poems—a new selection*, ed. T. R. M. Creighton (Macmillan).

B. NINETEENTH CENTURY NOVEL.

- Jane Austen, *Emma*, *Mansfield Park*.
Emily Bronte, *Wuthering heights*.
Charlotte Bronte, *Jane Eyre*.
Charles Dickens, *Oliver Twist*, *Great expectations*.
George Eliot, *The mill on the floss*, *Middlemarch*.
Thomas Hardy, *Tess of the D'Urbervilles*, *Jude the Obscure*.
Henry James, *The portrait of a lady*.

C. NINETEENTH CENTURY DRAMA.

- Ibsen, *The masterbuilder and other plays* (Penguin).
Chekhov, *Plays* (Penguin).
Wilde, *Plays* (Penguin).
Shaw, *Man and superman* (Penguin).

Classes in practical criticism will be held and students will be expected to show some competence in this area in the end-of-year assessment. Assessment as at present envisaged is by a combination of assessments during the year and two examinations.

AE22 English IIB.

One of the following options which will be offered, subject to satisfactory enrolments and staffing and to such quotas as may be imposed:

E704 AMERICAN STUDIES.

Pre-requisite: AE01 English I or any other subject approved by the Chairman of the Department.

The course consists of two lectures and one tutorial a week. It is not available to students with exemption from lectures.

Poetry and Prose:

- The Norton anthology of American Literature*, Vols. 1 and 2.
Fitzgerald, *The last tycoon* (Penguin).
West, *Collected works* (Penguin).
Hemingway, *Fiesta* (Panther).
Coover, *Pricksongs and descants* (Picador).
Selby, *Last exit to Brooklyn* (Signet).
Pynchon, *The crying of lot 49* (Bantam).

Drama:

- O'Neill, *The iceman cometh*, *Long day's journey into night* (Cape).
Williams, *The glass menagerie*, *A streetcar named desire* (Penguin).
Miller, *The crucible*, *Death of a salesman* (Penguin).
Albee, *Who's afraid of Virginia Woolf* (Penguin).
Kopit, *Indians* (Methuen).

Film:

Some study of American film may be included in this course.

E705 AUSTRALIAN LITERARY STUDIES.

Pre-requisite: AE01 English I or any other subject approved by the Chairman of the Department.

I. *Poetry and Prose: 19th Century.*

- Baynton, B., *Bush studies* (Angus and Robertson).
Boldrewood, R., *The portable Rolf Boldrewood* (U.Q.P.).
Clarke, M., *For the term of his natural life* (Angus & Robertson).
Wilkes, G. A. (ed.), *The colonial poets* (Angus and Robertson).

II. *Poetry and Prose: 20th Century.*

- Herbert, X., *Capricornia* (Angus and Robertson).
 Ireland, David, *A woman of the future* (Penguin).
 Kiernan, B. (ed.), *The most beautiful lies* (Angus and Robertson).
 Porter, H., *The tilted cross* (Faber).
 Richardson, H. H., *The fortunes of Richard Mahony* (Penguin).
 Stead, C., *The man who loved children* (Angus and Robertson).
 Stow, R., *To the islands* (Penguin), *Tourmaline* (Penguin).
 White, P., *Voss* (Penguin).
 Neilson, J. S., *Collected poems* (Angus and Robertson).
 Slessor, K., *Poems* (Angus and Robertson).
 Webb, F., *Collected poems* (Angus and Robertson).
 Heseltine, H. (ed.), *The Penguin book of Australian Verse*.

III. *Drama:*

- Hibberd, J., *A stretch of the imagination* (Currency).
 Esson, L., *The time is not yet ripe* (Currency).
 Seymour, A., *The one day of the year* (in *Three Australian plays*, Penguin).

IV. *More Specialised Topics:*

1. Furphy, J., *Such is life* (Angus and Robertson).
The buln-buln and the brolga (Seal).
2. The Jindyworobaks.
Elliott, B. R. (ed.), *The Jindyworobaks* (U.Q.P.).

E706 LINGUISTICS.

Pre-requisite: A Division I Pass or better in any foreign language which may be counted towards a University of Adelaide B.A. degree or any of: AE01 English I; QM01 Mathematics I or QM11 Mathematics IM; UA51 Music I; AL01 Philosophy I (before 1974); AL1H Philosophy IH(A) and AL2H Logic IH; AY01 Psychology I. In special cases students who cannot offer one of the subjects listed above as a pre-requisite may apply to the Chairman of the Department for consideration on other grounds. Such grounds might be a thorough working knowledge of a language other than those listed above.

The subject will consist of two lectures and one tutorial a week providing an introduction to (i) grammar and descriptive linguistics and (ii) historical and social linguistics.

Assessment, as at present envisaged, will be made on the following basis at 2nd year level:

- (1) The year's work, including three essays and some smaller tutorial papers (60%).
- (2) One final examination (40%).

This is not available to students with exemption from lectures.

Prescribed text:

Bernard, J., and Delbridge, A., *Introduction to linguistics: An Australian perspective*, (Prentice-Hall Australia).

Recommended preliminary reading:

- Crystal, D., *Linguistics* (Penguin).
 Palmer, F. R., *Grammar* (Penguin).
 Bloomfield, L., *Language* (Allen and Unwin).
 Chomsky, N., *Syntactic structures* (Mouton).
 Lyons, J., *Chomsky* (Fontana).
 Lyons, J., *Introduction to theoretical linguistics* (C.U.P.).

AE32 English IIC.

The following option will be offered, subject to satisfactory enrolments and staffing and to such quotas as may be imposed:

Any ONE full option not already taken as part of AE22 English IIB above.

AE03 English IIIA.

Pre-requisite subjects: AE02 English II or another English Department second-year subject if approved by the Chairman of the Department, always provided that the student has already passed AE01 English I.

The course comprises English Literature from 1350 to 1780 and includes an intensive study of two authors. Shakespeare and Milton. Subject to satisfactory enrolments and staffing, in the third term students may study any one of three periods, 1350–1550, 1550–1660, 1660–1780, or the one-term course in Comparative Literature.

I. SHAKESPEARE AND MILTON.

Shakespeare:

- The Comedy of Errors.*
- Romeo and Juliet.*
- Julius Caesar.*
- A Midsummer Night's Dream.*
- Twelfth Night.*
- Measure for Measure.*
- King Lear.*
- Macbeth.*
- The Winter's Tale.*
- The Tempest.*

(Preferred editions: New Arden, New Cambridge, New Penguin.)

Milton:

Complete poems and major prose, ed. Merritt Hughes.

II. MAJOR ENGLISH WRITERS 1350–1780.

Chaucer, *The parlement of Foulys*, "The wife of Bath's prologue and tale", "The franklin's tale", "The nun's priest's tale", in *Complete works*, ed. F. N. Robinson.

Spenser, *Poetry*, ed. H. Maclean (Norton).

Donne, *Complete English poems*, ed. A. J. Smith (Penguin).

Jonson, *The alchemist*, ed. F. H. Mares (University paperback or Revels), *Volpone*, ed. P. Brockbank (New Mermaid).

Dryden, *Selected poetry*, ed. John Arthos (Signet).

Swift, *Gulliver's travels* (Norton or Penguin).

Pope, *Selected poetry and prose*, ed. W. K. Wimsatt (Rinehart).

Johnson, *Rasselas*, ed. J. Hardy (O.U.P. and *Selected writings*, ed. P. Cruttwell (Penguin).

Sterne, *Tristram Shandy*, ed. Graham Petrie (Penguin).

III. ONE of the following four options:

1. ENGLISH LITERATURE 1350–1550.

Chaucer, *The knight's tale*, *Sir Thopas*.

Malory, *The morte D'Arthur* (parts 7 and 8), ed. P. J. C. Field (Hodder and Stoughton).

Middle English verse romances, ed. D. B. Sands (Holt, Rinehart and Winston).

Middle English lyrics, eds. M. S. Luria and R. L. Hoffman (Norton Critical Edition).

Mystery plays, edition to be decided.

2. ENGLISH LITERATURE 1550–1660.

The course will examine the reaction of writers to the period and will consider content and literary form.

Set texts:

A list of texts will be available from the Department at the beginning of first term.

3. ENGLISH LITERATURE 1660–1780.

- Etherege, *The man of mode* (Arnold).
 Congreve, *The way of the world* (Arnold).
 Defoe, *Moll Flanders* (O.U.P. or Dent).
 Fielding, *Joseph Andrews* (Penguin).
 Goldsmith, *The vicar of Wakefield* (Dent).
 Sterne, *A sentimental journey* (Penguin).
 Smollett, *Humphry Clinker* (Dent).
The late Augustans, ed. Donald Davie (Heinemann).

4. C706 COMPARATIVE LITERATURE.

For syllabus see under "Comparative Literature" immediately after the Classics syllabuses.

All students taking this course must enrol for option C706 Comparative Literature in the Unit/Option section of the Enrolment Form.

NOTE: AE03 English IIIA may not operate in this form after 1981.

AE13 English IIIB.

The following options will be offered, subject to satisfactory enrolments and staffing and to such quotas as may be imposed:

E704 AMERICAN STUDIES.

Pre-requisite: A pass in AE02 English II.

E705 AUSTRALIAN LITERARY STUDIES.

Pre-requisite: A pass in AE01 English I or any other subject approved by the Chairman.

E706 LINGUISTICS.

Pre-requisite: A Division I pass or better in any foreign language which may be counted towards a University of Adelaide B.A. degree or any of: AE01 English I; QM01 Mathematics I or QM11 Mathematics IM; UA51 Music I; AL01 Philosophy I (before 1974); AL1H Philosophy IH (A) and AL2H Logic IH; AY01 Psychology I. In special cases students who cannot offer one of the subjects listed above as a pre-requisite may apply to the Chairman of the Department for consideration on other grounds. Such grounds might be a thorough working knowledge of a language other than those listed above.

In each case the syllabus for each of these options will be similar to that of the corresponding options in AE22 English IIB or AE32 English IIC, but students taking AE13 English IIIB will be required to undertake additional study relating to the material of the option.

An additional option (E710) may be made available, at third year level only, (subject to the discretion of the Chairman) which will be primarily designed for prospective Honours students.

In addition to the specific pre-requisites listed for the options E705 and E706, no student may take either of these options for AE13 English IIIB until he has passed a second-year subject.

NOTE: Option E704 will not be available to students who passed AE82 American Literature in 1980 or before.

Option E705 will not be available to students who passed AE72 Australian Literary Studies II in 1980 or before.

Option E706 will not be available to students who passed AE92 Linguistics II in 1980 or before.

AE87 Old and Middle English II.

Pre-requisite subject: AE01 English I or other subject approved by the Chairman of the Department.

This course is not available to students with exemption from lectures.

A. ANGLO-SAXON CULTURE AND INSTITUTIONS.

B. INTRODUCTION TO OLD ENGLISH LANGUAGE AND LITERATURE.

Prescribed books:

- Bright's Old English grammar and reader*, 3rd edition (Holt, Rinehart and Winston).
 Quirk, R., and Wrenn, C. L., *An Old English grammar*, 2nd edition (Methuen).

C. INTRODUCTION TO EARLY MIDDLE ENGLISH LANGUAGE AND LITERATURE.

Prescribed book:

Bennett, J. A. W., and Smithers, G. V. (eds.), *Early Middle English verse and prose*, 2nd edition (O.U.P.).

AE88 Old and Middle English III.

Pre-requisite subject: AE87 Old and Middle English II.

This course is not available to students with exemption from lectures.

A. MEDIEVAL ENGLISH CULTURE AND INSTITUTIONS.

B. OLD AND MIDDLE ENGLISH LANGUAGE.

For reference:

Quirk, R., and Wrenn, C. L., *An Old English grammar*, 2nd edition (Methuen).

Wardale, E. E., *An introduction to Middle English* (Routledge).

C. STUDY OF OLD AND MIDDLE ENGLISH TEXTS.

Prescribed books:

Bright's Old English grammar and reader, 3rd edition (Holt, Rinehart and Winston).

Bennett, J. A. W., and Smithers, G. V. (eds.), *Early middle English verse and prose*, 2nd edition (O.U.P.).

Waldron, R. A. (ed.), *Sir Gawain and the green knight* (York Medieval Texts).

HONOURS DEGREE.

English Language and Literature for the Honours degree of Bachelor of Arts.

Students wishing to take honours should consult the Chairman of the Department ideally before beginning the second year's work.

Before proceeding to the fourth and final year of honours work they will be required:

- (a) to reach an acceptable standard in AE02 English II and AE03 English IIIA.
- (b) to complete such honours work as may be required in second- and third-year courses in English.
- (c) to include in the nine courses required for their pass degree at least *four* from among those provided by the English Department.

In extraordinary cases some other combination of subjects may be acceptable to the Chairman of the Department.

AE99 Honours English Language and Literature.

The final examination will normally be taken at the end of the fourth year and will consist of six papers selected (with the approval of the Chairman of the Department) from a list of topics available from the English Department Office.

Attendance at the relevant lectures and tutorials is essential in all these courses. The course is full-time and must normally be completed in the one academic year.

It should be noted that students will be expected to select their topics so as not to confine their interest to any one period or genre. In addition, before presenting themselves for examination in any paper involving Old English or Old Norse, students will normally be required to have completed the course for AE88 Old and Middle English III.

Students may submit or may be required to submit a short thesis of *not more than* 12,000 words on a subject approved by the Chairman of the Department as an alternative to one or two of these topics. A *viva voce* examination will also be part of the assessment procedures for all candidates.

Joint Honours.

The pre-requisites for a Joint Honours degree in English and some other subject could be varied from those listed above at the discretion of the respective chairmen of departments.

FRENCH LANGUAGE AND LITERATURE.

There are seven courses in French for the Ordinary degree of Bachelor of Arts: AF11 French IA, AF01 French I, AF02 French II, AF12 French IIA, AF72 French IIB, AF03 French III and AF88 French IIIB. AF11 French IA assumes little or no previous knowledge of the language and is a first-year subject for the degree of B.A. The aim of the course is to provide a basic working knowledge of the written and spoken language to those students who have done little or no French at school and who wish to study the language at University, either for cultural reasons, or for more practical reasons, such as to acquire a reading knowledge of French for Honours or postgraduate work in another discipline. No subject is pre-requisite to AF01 French I, but a knowledge of French at the standard of the Matriculation examination is assumed and students are advised to attempt the course only if they have reached Grade D or higher in that examination or possess some other equivalent qualification. Students enrolled in AF01 French I for the first time will not be exempted from attendance at lectures and tutorials.

AF02 French II is the course which will normally be taken in second year by students who have passed in AF01 French I at Division I standard or higher. AF12 French IIA will be taken by students who have passed in AF11 French IA at Division I standard or higher. Students who pass AF12 French IIA will be qualified to enter AF03 French III in the following year.

AF72 French IIB may be taken as an additional course to AF02 French II, and may be taken either in second or third year, the only pre-requisite being a pass in AF01 French I at Division I standard or higher. In special cases students may be permitted by the department to enrol in AF72 French IIB as a single course in second year, without also taking AF02 French II. In addition, AF72 French IIB may be taken by students who are either concurrently enrolled in, or have already passed in, AF12 French IIA. AF72 French IIB does not by itself normally qualify for admission to AF03 French III, for which a pass in AF02 French II or AF12 French IIA is required. However, in special cases, and with the permission of the department, students who have taken and passed in AF72 French IIB only may be admitted to AF03 French III.

AF03 French III is the normal course to be taken by students in third year. AF88 French IIIB may also be taken as an additional course to AF03 French III, and will normally be taken in third year, the pre-requisite being a pass in any one of the courses AF02 French II, AF12 French IIA or AF72 French IIB. However, in special cases, students may be permitted by the department to enrol in AF88 French IIIB as a single subject in third year, without also taking AF03 French III.

Lectures on literature and civilisation, particularly in second and third year courses, may be given in French.

All exercises set during the year form an integral part of the courses, and students may be refused permission to sit for the annual examination if their performance of the exercises has been unsatisfactory.

AF11 French IA.

N.B.: No previous knowledge of French is required. Students with some knowledge of the language will be advised by the Department concerning the level at which the language should be taken.

1. LANGUAGE.

- (a) Grammar, dialogues, translation and writing of French.
- (b) Speaking, aural comprehension, reading of simple texts.

(Students are advised that, in addition to the hours of formal instruction, they must devote at least two hours weekly to independent work in the language laboratory.)

Prescribed text:

Bieler, A., and others, *Perspectives de France*, revised 1972 edition (Prentice-Hall) and Workbook for *Perspectives de France*.

2. MODERN FRANCE.

Background reading, illustrating the life and culture of contemporary France.

Prescribed text:

Harris, J., and Lévêque, A., *Basic French Reader*, 3rd edition (Holt, Rinehart and Winston).

3. LITERATURE AND THOUGHT.

Significant modern French authors, read partly in French, partly in translation.

Prescribed texts:

Camus, *L'Etranger* (Methuen).

Vercors, *Le silence de la mer* (Macmillan).

Sagan, *Bonjour Tristesse* (Livre de poche).

(These literary texts are suited to the needs of students who wish to obtain a reading knowledge of French for Honours or postgraduate work in another subject.)

AF01 French I.

The course comprises:

1. Tuition in the speaking and writing of French by means of the Language Laboratory (1-2 hours a week).
2. Tutorials on grammar and French civilisation, based on the reading of passages and exercises from the prescribed books (2 hours a week).
3. Lectures on French literature and civilisation (1 hour a week).

1. LANGUAGE AND CIVILISATION.

Prescribed books:

Comeau, R., and others, *Ensemble: Grammaire* (Holt, Rinehart and Winston).

Comeau, R., and others, *Ensemble: Culture et société* (Holt, Rinehart and Winston).

2. LITERATURE.

This will consist of a general introduction to contemporary French literature, based on the study of significant modern literary texts, chosen for the most part from works written since 1940. Certain of the prescribed books will be treated *intensively*, for detailed textual commentary, others will be treated *more generally*, by the discussion of their ideas or literary qualities.

Prescribed books:

Textual study:

Davies, J. C. (ed.), *Contes modernes* (Cheshire).

Anthology of modern French poetry (to be distributed).

General study:

Anouilh, *L'Alouette* (Methuen).

De Beauvoir, *Les Belles images* (Folio).

Bosco, *L'enfant et la rivière* (Folio Junior).

Gide, *La symphonie pastorale* (Harrap).

Ionesco, *Three plays* (Heinemann).

Lainé, *La Dentellière* (Folio).

St. Exupéry, *Terre des Hommes* (Heinemann).

SECOND AND THIRD YEAR COURSES.

The following courses are offered in second year: AF02 French II, AF12 French IIA and AF72 French IIB; and the following are offered in third year: AF03 French III and AF88 French IIIB.

AF02 French II, AF12 French IIA and AF03 French III each consists of two components:

(a) *a language component*, consisting of training in the speaking and writing of French (including translation from English into French) and conducted for 2 hours a week throughout the year (except for AF12 French IIA which is 3 hours a week).

(b) *a choice of language, literature and civilisation options*, taken from the list which follows. One option will normally be studied in each term, except for AF12 French IIA, which in first term will take a separate literature course followed by options in second and third terms. Each option involves 2 hours of classes a week throughout the term.

AF72 French IIB and AF88 French IIIB each consists of a choice of language, literature or civilisation options, taken from the list which follows. *Two* options will normally be studied in each term, each option involving 2 hours of classes a week throughout the term.

OPTIONS OFFERED IN 1981 AND PRESCRIBED TEXTS.**TERM I.**

- (i) INTRODUCTION TO OLD FRENCH LANGUAGE AND LITERATURE (2nd and 3rd years).

Groult, P., and others, *Anthologie de la littérature française du moyen âge* (2 vols.) (Duculot) (the Department has a limited number of copies which students may borrow).
(Other material will be distributed.)

- (ii) LA COMEDIE AUX 17^e ET 18^e SIECLES (2nd and 3rd years).

Molière, *Les Précieuses ridicules* (Bordas).
Molière, *Les Femmes savantes* (Bordas).
(Copies provided by the Department.)
Molière, *Tartuffe* (Bordas).
Molière, *Dom Juan* (Bordas) (3rd year only).
Marivaux, *Le jeu de l'amour et du hasard* (Bordas).
Beaumarchais, *Le Barbier de Séville* (Bordas).
Beaumarchais, *Le mariage de Figaro* (Bordas) (3rd year only).

- (iii) PRATIQUE DU TEXTE DRAMATIQUE (2nd and 3rd years).

Calaferte, L., *Chez les Titch* (Stock).
Texts to be distributed.

- (iv) POETRY IN THE 19TH AND 20TH CENTURIES (2nd and 3rd years).

Anthology of modern French poetry (to be distributed).
Baudelaire, *Les Fleurs du mal* (Classiques Garnier).
Apollinaire, *Alcools* (Nouveaux Classiques Larousse).

- (v) TWO 20TH CENTURY NOVELISTS: ST. EXUPERY AND ALAIN-FOURNIER (2nd year).

St. Exupéry, *Le petit prince* (Heinemann).
St. Exupéry, *Vol de nuit* (Folio).
Alain-Fournier, *Le grand Meaulnes* (Livre de Poche).

(vi) L'ART MEDIEVAL (11^e–15^e SIECLES) (3rd year).

Preliminary reading:

- Le Goff, J., *Le Moyen Age* (Bordas).
Davy, M., *Initiation à la symbolique romane* (Flammarion).
Mâle, E., *L'art religieux au 13^e siècle en France* (Livre de Poche).

There are no prescribed texts. A list of reference books will be distributed. The seminars will include presentation and discussion of slides and photographic material.

(vii) LA CRISE: LA POLITIQUE EN FRANCE DEPUIS 1936 (2nd and 3rd years).

- Blum, L., *A l'échelle humaine* (Idées-Gallimard).
Borella, F., *Les partis politiques dans la France d'aujourd'hui* (Seuil).
Duverger, M., *Introduction à la politique* (Idées-Gallimard).
Giscard d'Estaing, *Démocratie française* (Livre de Poche).

(viii) LES INTELLECTUELS, LA PRESSE ET LA POLITIQUE (3rd year).

- Burnier, M.-A., *Les existentialistes et la politique* (Idées-Gallimard).
Daniel, J., *L'Ere des ruptures* (Livre de Poche).
Estier, C., *La gauche hebdomadaire 1914–1962* (Armand Colin).

(ix) STYLE AND CONTEMPORARY USAGE (2nd year).

- Moirand, S. C. and Porquier, R., *Le français actuel* (Hatier/Cedamel):
documents et textes authentiques only.

TERM II.

(i) LE THEATRE CLASSIQUE (17^e SIECLE) (2nd year).

- Lagarde et Michard, *XVII^e siècle* (Harrap).
Corneille, *Le Cid* (Bordas).
Molière, *L'Avare* (Bordas).
Molière, *Tartuffe* (Bordas).
Molière, *Le Malade Imaginaire* (Copies provided by Department).
Racine, *Andromaque* (Bordas).
Racine, *Phèdre* (Bordas).

(ii) LE ROMAN AUX 17^e ET 18^e SIECLES (2nd year).

- La Fayette, *La Princesse de Clèves* (Bordas).
Prévost, *Manon Lescaut* (Garnier).
Voltaire, *Candide* (London U.P.).
Laclos, *Les liaisons dangereuses* (Garnier).

(iii) TECHNIQUES OF THE NOVEL IN THE 19TH AND 20TH CENTURIES (3rd year).

- Flaubert, *Madame Bovary* (Classiques Garnier).
Camus, *La Peste* (Methuen).
Butor, *La Modification* (10/18).

(iv) DOSTOIEVSKY AND THE FRENCH WRITERS (3rd year).

Preliminary reading:

- Dostoevsky, *The Devils* (Penguin Classics); OR
Dostoevsky, *Notes from underground* (Penguin).

Prescribed texts:

- Sarraute, *L'ère du soupçon* (Gallimard, Collection Idées).
Camus, *La Chute* (Folio).
Bernanos, *Monsieur Ouine* (Livre de Poche).

(v) 19TH AND 20TH CENTURY DRAMA (2nd and 3rd years).

Musset, *Lorenzaccio* (Nouveaux Classiques Larousse).
Musset, *On ne badine pas avec l'amour* (Nouveaux Classiques Larousse).
Claudé, *L'Otage* (Folio).
Montherlant, *La Reine Morte* (Livre de Poche Université).

(vi) THE MYTH OF ANTIGONE (3rd year).

Anouilh, *Antigone* (Harrap).
Other texts to be prescribed.

(vii) APPLIED LINGUISTICS (3rd year).

Rivers, W. M., *A practical guide to the teaching of French* (O.U.P.).

(viii) FRANCE IN THE SOUTH PACIFIC: NEW CALEDONIA (2nd and 3rd years).

This course aims to provide students with an opportunity to develop their practical language skills in a French-speaking country and to study, through formal classes and field-work, the life, culture and institutions of a French Pacific territory. The course is open only to students who are able to fulfil the field-work requirements in New Caledonia.

Availability of the course will depend on enrolment by a sufficient number of students and the collaboration of certain other universities.

Class requirements:

Preliminary classes held in the last 3 weeks of first term, followed by five weeks of full-time classes and field-work in Noumea (New Caledonia), held during May and June.

Assessment:

By project assignments, essays and oral examination.

Prescribed books:

Daprini, P., *La Nouvelle Calédonie* (Canterbury Monographs for teachers of French).
Barre, J. M., *Lectures calédoniennes* (Hachette-Calédonie).

TERM III.

(i) LE THEATRE TRAGIQUE AU 17^e SIECLE (3rd year).

Corneille, *Le Cid* (Bordas).
Corneille, *Horace* (Bordas).
Racine, *Andromaque* (Bordas).
Racine, *Britannicus* (Bordas).
Racine, *Iphigénie* (Bordas).
Racine, *Phèdre* (Bordas).
Racine, *Athalie* (Bordas).

(ii) J. J. ROUSSEAU: POETIC IMAGINATION AND SOCIAL THEORY (2nd and 3rd years).

Rousseau, *Confessions* (I-VI) (Livre de Poche).
Rousseau, *Discours* (Garnier-Flammarion).
Rousseau, *Les Rêveries du promeneur solitaire* (Garnier).

(iii) CONTRASTING STYLES IN 20TH CENTURY THEATRE (2nd year).

Giraudoux, *Intermezzo* (Harrap).
Giraudoux, *La guerre de Troie n'aura pas lieu* (U. of London Press).
Ionesco, *Les chaises in Three Plays* (Heinemann).

(iv) MAN AND NATURE IN THE 20TH CENTURY NOVEL: PATTERNS OF CONFLICT AND HARMONY (3rd year).

Ramuz, *La grande peur dans la montagne* (Livre de Poche).
Ramuz, *Derborence* (Livre de Poche).
Giono, *Regain* (Livre de Poche).
Giono, *Le chant du monde* (Folio).
Bosco, *Malicroix* (Folio).

(v) COMMUNICATION IN THE CONTEMPORARY NOVEL (2nd and 3rd years).

De Beauvoir, *La femme rompue* (Folio).
Etcherelli, *A propos de Clémence* (Folio).
Sarraute, *Martereau* (Folio).
Duras, *Moderato Cantabile* (Methuen) (or an alternative contemporary novel chosen by the student).

(vi) THE THEATRE OF THE ABSURD (2nd and 3rd years).

Beckett, *En attendant Godot* (Harrap).
Beckett, *Fin de partie* (Methuen).
Beckett, *La dernière bande* (Eds. de minuit).

(vii) HISTORY OF THE FRENCH CINEMA (2nd and 3rd years).

Amengual, B., *Clefs pour le cinéma* (Seghers).
Baticle, Y., *Ouverture sur le cinéma et la télévision* (Magnard).

Students will also be required to see one film a week and one episode from the television series *Histoire du cinéma français*.

(viii) C706 COMPARATIVE LITERATURE (3rd year).

See under Comparative Literature immediately after the Classics Syllabuses.

For the above options written assignments will be set. There will be no written examination; assessment will be based on work presented during the year. Third year students taking options which are also offered at second year level will be required to do additional work set by the lecturer in charge of the option.

CHOICE OF OPTIONS.

1. Before completing either of the two third year courses, students must have taken, either in second or third year, *at least one* option from any of the options involving 17th or 18th century literature; and *at least one* of the options involving 19th or 20th century literature.

2. Intending Honours students, before completing third year, are recommended to take, either in second or third year, *at least one* option involving (a) 17th century literature, (b) 18th century literature, (c) 19th century literature, (d) 20th century literature.

3. In third year, no student may count *both* APPLIED LINGUISTICS and COMPARATIVE LITERATURE as part of the same subject, i.e. *either* AF03 French III *or* AF88 French IIIB.

AF02 French II.

Pre-requisite subject: AF01 French I at Division I standard or higher.

I. LANGUAGE COMPONENT (2 hours a week).

(a) Translation from English into French.

Prescribed book:

Mansion, J. E., *A grammar of present-day French, with exercises* (Harrap).

(b) Tuition in the speaking and writing of French by means of the Language Laboratory and in tutorials.

II. LANGUAGE, LITERATURE AND CIVILISATION OPTIONS (2 hours a week).

One option will be chosen each term from the list of options offered at second year level, and subject to the foregoing restrictions placed on the choice of options (see previous heading: Second and Third Year Courses).

Assignments will be set on each option. There will be no written examination, and assessment will be based on work presented during the year.

AF12 French IIA.

Pre-requisite subject: AF11 French IA at Division I standard or higher.

Students who pass AF12 French IIA will be qualified to enter AF03 French III in the following year. Students intending to do this are encouraged to take an additional French course at second year level, AF72 French IIB, which they may take concurrently with AF12 French IIA.

I. LANGUAGE COMPONENT (3 hours a week).

(a) French grammar and translation from English into French.

Prescribed texts:

Whitmarsh, W. F. H., and Jukes, C. D., *New advanced French course* (Longman).

Ollivier, J., *Grammaire française* (Harcourt, Brace, Jovanovich).

(b) Tuition in the speaking and writing of French by means of the Language Laboratory and in tutorials.

I. LITERATURE (2 hours a week in Term I).

A selection of texts from modern authors treated for detailed study.

Prescribed texts:

Davies, J. C. (ed.), *Contes Modernes* (Cheshire).

Sagan, F., *Bonjour Tristesse* (Livre de Poche).

III. LANGUAGE, LITERATURE AND CIVILISATION OPTIONS (2 hours a week in Terms II and III).

One option will be chosen each term, from the list of options offered at second year level, and subject to the foregoing restrictions placed on the choice of options (see previous heading: Second and Third Year Courses).

Assignments will be set on each option. There will be no written examination, and assessment will be based on work presented during the year.

AF72 French IIB.

AF72 French IIB may be taken as an additional course to AF02 French II, the pre-requisite being a pass in AF01 French I at Division I standard or higher. In addition, AF72 French IIB may be taken by students who are either concurrently enrolled in, or have already passed in, AF12 French IIA. AF72 French IIB does not by itself normally qualify for admission to AF03 French III, for which a pass in AF02 French II or AF12 French IIA is required.

French IIB will also be taken by intending French Honours candidates in their second year of study.

This course consists of a choice of language, literature or civilisation options, taken from the preceding list. Each option involves 2 hours of classes a week for one term.

Two options will be chosen each term from the list of options offered at second year level, and subject to the foregoing restrictions placed on the choice of options (see previous heading: Second and Third Year Courses).

Students taking both IIA and IIB are recommended to take for IIB in Term I *STYLE AND CONTEMPORARY USAGE* and *LA CRISE: LA POLITIQUE EN FRANCE DEPUIS 1936*.

Assignments will be set on each option. There will be no written examination and assessment will be based on work presented during the year.

AF03 French III.

Pre-requisite subjects: AF02 French II or AF12 French IIA.

I. LANGUAGE COMPONENT (2 hours a week).

(a) Translation from English into French.

Prescribed book:

Mansion, J. E., *A grammar of present-day French, with exercises* (Harrap).

(b) Tuition in the speaking and writing of French by means of the Language Laboratory and in tutorials.

Material will be provided by the Department.

II. LANGUAGE, LITERATURE AND CIVILISATION OPTIONS (2 hours a week).

One option will be chosen each term from the list of options offered at third year level, and subject to the foregoing restrictions placed on the choice of options (see previous heading: Second and Third Year Courses).

Assignments will be set on each option. Third year students taking options which are also offered at second year level will be required to do additional work set by the lecturer in charge of the option. There will be no written examinations, and assessment will be based on work presented during the year.

AF88 French IIIB.

AF88 French IIIB may be taken as an additional course to AF03 French III, the pre-requisite being a pass in any one of the courses AF02 French II, AF12 French IIA or AF72 French IIB.

AF88 French IIIB will also be taken by intending French Honours candidates in their third year of study.

This course consists of a choice of language, literature or civilisation options, taken from the preceding list. Each option involves 2 hours of classes a week for one term.

Two options will be chosen each term from the list of options offered at third year level, and subject to the foregoing restrictions placed on the choice of options (see previous heading: Second and Third Year Courses).

Assignments will be set on each option. Third year students taking options which are also offered at second year level will be required to read additional texts and to write additional essays, set by the lecturer in charge of the option. There will be no written examination and assessment will be based on work presented during the year.

HONOURS DEGREE.

AF99 Honours French Language and Literature.

Students intending to take Honours should consult the Professor before the beginning of their second year's work. It is also possible to take a combined Honours degree, consisting of French and another subject. For this also, students should consult the Professor of French before the beginning of the second year.

Honours students will normally be required (i) to take the courses AF02 French II or AF12 French IIA in their second year, followed by AF03 French III in their third year; (ii) in addition, to complete AF72 French IIB and AF88 French IIIB before entry to the fourth year; (iii) to devote their fourth year entirely to advanced courses and exercises (including a 15,000 word thesis) in literature and language. However, the Department may vary the pre-requisites in (ii) above in certain exceptional cases where the applicant for Honours has demonstrated a high level of ability. Intending Honours students in French Language and Literature, before completing third year, are recommended to take, either in second year or in third year, *at least one* option involving (a) 17th century literature, (b) 18th century literature, (c) 19th century literature, (d) 20th century literature.

Students who have not complied with this recommendation before beginning the fourth year may be asked to choose an appropriate option as one of the two taken in the course of the fourth year. Before entering the final year of Honours, students must have qualified for the Ordinary degree of B.A., i.e. have passed in nine subjects. To avoid doing more than nine subjects in qualifying for entry to combined honours, students may arrange with the departments concerned to take appropriate combined subjects in second and third years.

The marks obtained for the essays in both the third and the fourth years may be considered with the final examination results in determining the student's classification.

The fourth-year courses will consist of the following:

- I. LANGUAGE: *Thèmes and versions* (1 hour a week throughout the year).
- II. SURVEY COURSE ON FRENCH LITERATURE FROM THE RENAISSANCE TO THE PRESENT DAY (1 hour a week throughout the year).

Prescribed texts:

- Montaigne, *Selected Essays* (Manchester U.P.).
- Pascal, *Pensées* (Ed. Bordas).
- La Fontaine, *Fables* (Ed. Bordas, 2 vol.).
- Diderot, *Jacques le fataliste* (Folio).
- Chateaubriand, *Mémoires d'Outre-Tombe* (Bordas).
- Proust, *Du côté de chez Swann* (Folio).
- Gide, *Les Faux-Monnayeurs* (Folio).
- Vian, *L'écume des jours* (10/18).

- III. OPTIONS: A choice of two options from the following list:
 - L'ART MEDIEVAL (11^e-15^e SIECLES)
 - CHRETIEN DE TROYES
 - RACINE
 - TECHNIQUES OF THE NOVEL IN THE 19TH AND 20TH CENTURIES
 - MAN AND NATURE IN THE 20TH CENTURY NOVEL
 - GIDE
 - DOSTOIEVSKY AND THE FRENCH WRITERS
 - STUDIES OF EVIL IN THE 20TH CENTURY NOVEL: MAURIAC AND BERNANOS.

GEOGRAPHY.

More detailed information about the Department and its courses may be found in the Departmental Handbook which will be available at the departmental office after mid-January 1981.

FIRST YEAR.

AJ01 Geography I covers both human and physical aspects of Geography. Students should enrol in AJ01 Geography which allows entry to all options at second year.

Students who require only a half-subject may take *either* AJ1H Physical Geography IH or AJ2H Human Geography IH. Neither of these half-subjects by itself is acceptable as a pre-requisite for Geography II.

There are no pre-requisites for any of the first year courses. No course is available to students with exemption from lectures.

AJ01 Geography I.

Two lectures, one tutorial and one short practical a week throughout the year.

Physical Geography segment: First half of the year. The Physical Geography section of the course examines earth surface patterns and processes in the Australian context. This entails the study of those geomorphic, climatic, and biotic patterns and processes most susceptible to human influence and having the greatest impact on human activities.

Human Geography segment: Second half of the year. The human component of the course is concerned with the nature and distribution of social well-being both in western and other cultures. This involves an examination of such topics as poverty, crime, housing, and health as well as of minority groups such as the elderly and the Aborigines living in both urban and rural Australia.

AJ1H Physical Geography IH.

Two lectures, one tutorial and one short practical a week. First half of the year.

The subject matter is identical with that contained in the Physical Geography segment of AJ01 Geography I described above.

AJ2H Human Geography IH.

Two lectures, one tutorial and one short practical a week. Second half of the year.

The subject matter is identical with that contained in the Human Geography segment of AJ01 Geography I described above.

SECOND YEAR.

Pre-requisites: AJ01 Geography I or its equivalent. Students who have passed in AJ71 Economic Geography (prior to 1981) are permitted to enrol in J711 Economic Geography and J713 Social Geography. Students who have passed other first year subjects may be given limited access to second year courses in special circumstances, with the permission of the Chairman.

There are two subjects offered, AJ12 Geography IIA which consists of any two options and AJ22 Geography IIB which consists of the two optional courses not presented for AJ12 Geography IIA. Students wishing to study only Human Geography as Geography IIA will enrol for options J711 Economic Geography and J713 Social Geography. Those wishing to study only Physical Geography as Geography IIA will enrol in J710 Biogeography and J712 Geomorphology.

Students who take both Geography IIA and IIB, i.e. two full subjects, will enrol for all of the four options. Students taking only AJ12 Geography IIA may take a Human-Physical mix but are advised to combine options in such a way as to maintain an even workload throughout the year.

Students who wish to take the half-subject AJ7H Geography IIH may do so by enrolling for any one of the optional courses offered, providing that the course is not also counted towards AJ12 Geography IIA.

J710 BIOGEOGRAPHY.

Two lectures, one practical a week and field work. Second half of the year.

This course provides an introduction to community biogeography—the branch of biogeography which studies spatial variation in the nature of communities formed by plants, animals, micro-organisms and their physical environment.

The lectures deal with interactions among the living and non-living components of communities, with the emphasis on Australian examples. Practical sessions and field excursions are used to demonstrate basic techniques of community inventory and classification.

J711 ECONOMIC GEOGRAPHY.

Two lectures, one tutorial or practical a week. First half of the year.

This course treats the space-economy as a system and examines the various factors which influence the locations, patterns and movements of economic phenomena, together with an analysis of some of the spatial models which have been developed to describe various elements of the system.

J712 GEOMORPHOLOGY.

Two lectures a week; one tutorial or practical a week in third year and every other week in second year; field work. First half of the year. Offered in 1982 and even years.

The form of the land surface varies with the structure of the underlying crust, the processes responsible for shaping the surface and with variations in structure and process in time. This course is concerned primarily with the first of these three variables. Topics considered include the effects of joints, faults, folds and rock type on landform development. Volcanoes are also discussed.

Examples are taken from a global canvas but particular attention is devoted to the Mount Lofty Ranges, the Flinders Ranges and Eyre Peninsula, each of which not only illustrates aspects of structural geomorphology but also offers opportunities for considering the total development of landforms and the methods used to analyse and explain geomorphological problems.

J713 SOCIAL GEOGRAPHY.

Two lectures, one tutorial or practical a week and field work. Second half of the year.

This course is concerned with the spatial patterns and processes that derive from man living in society. It deals with the major habitats of country and city and the interactions between them, primarily in the context of Western society.

The subjects offered are:

AJ12 Geography IIA.

Any two of the second-year options.

AJ22 Geography IIB.

Two of the second-year options not already presented for AJ12 Geography IIA.

AJ7H Geography IIIH.

Any one of the second-year options.

THIRD YEAR.

Pre-requisites: AJ12 Geography IIA or its equivalent prior to 1979. Some third year options require particular second year courses as pre-requisites.

There are two subjects offered, AJ13 Geography IIIA, which consists of any two optional courses and any one techniques course, and AJ23 Geography IIIB which consists of two optional courses and one techniques course not presented for AJ13 Geography IIIA. Each optional course will run for half of a year and will consist of two lectures, one tutorial or practical a week and some field work. Each techniques course will run for half of a year and will consist of one workshop a week. Students requiring a half-subject in Geography will take AJ8H Geography IIIH which consists of one optional course and one techniques course. Students with suitable pre-requisites from other faculties may take any of the listed courses with the consent of the relevant Chairmen.

Optional courses:

J720 BIOGEOGRAPHY.

Second half of the year. This course covers a variety of advanced topics in community biogeography with the emphasis on topics related to community conservation and management in the Australian context. Practical sessions and a field camp are used to demonstrate techniques of data collection and analysis for conservation and management purposes.

J721 CARTOGRAPHY.

Second half of the year. This course involves theoretically based investigations of the application of graphic and cartographic techniques to spatial problems and of the successful communication of graphic information.

J723 CULTURAL GEOGRAPHY.

First half of the year. The course studies the various ways in which culture influences how people see and use their environment and the interactions which occur when communities from different cultural backgrounds compete for the same land.

J724 ECONOMIC GEOGRAPHY.

Second half of the year. This course examines the nature and causes of spatial inequality in economic growth and development at various scales.

J725 GEOMORPHOLOGY.

First half of the year. Offered in 1981 and odd years. Two lectures a week; one tutorial or practical a week in third and one every other week in second year; field work.

The processes responsible for shaping the land surface are considered, including weathering, mass movement and the work of running water, wind and waves. Particular attention is given to deserts and coasts.

J726 RURAL GEOGRAPHY.

First half of the year. This course will concentrate on the spatial aspects of social and economic life in rural areas of western countries and rural planning in such countries. Particular attention will be paid to the social organisation of space, while land use and farming problems and the economic problems of backward rural areas will be considered as background variables.

J727 SOUTH-EAST ASIA.

This course will not be taught at Adelaide in 1981, but will be available at Flinders. Students may take the option as part of AJ13 Geography IIIA or AJ23 Geography IIIB at Adelaide.

J728 URBAN GEOGRAPHY.

Second half of the year. The course adopts a comparative approach to urbanisation processes, the internal restructuring of large cities, and their impact upon urban life. Policy-related topics such as the urban land market, inner area change, residential development processes and housing provision are treated.

Case studies are selected to illustrate the contrasting urban experience within the 'late capitalist', 'command' and 'underdeveloped' economies.

Techniques courses:

J733 REMOTE SENSING.

Second half of the year. This course will demonstrate the functioning and capabilities of remote sensors which are designed to detect electromagnetic energy reflected from or emitted by landscape features. Emphasis will be given to the use of remote sensing techniques in geographic inventory and environmental monitoring.

J734 SOCIAL SURVEY.

First half of the year. The course covers standard procedures such as sampling, questionnaire and survey design, interviewing, coding, analysis of survey data, report writing and participant observation.

The subjects offered are:**AJ13 Geography IIIA.**

Two optional courses and one techniques course.

AJ23 Geography IIIB.

Any other two optional courses and one techniques course not presented for AJ13 Geography IIIA.

AJ8H Geography IIH (half-subject).

One optional course and one techniques course.

HONOURS DEGREE.**AJ99 Honours Geography.**

Normally a standard of credit or above in AJ13 Geography IIIA will be expected as a pre-requisite. Admission to the programme is subject to approval by the Chairman.

The course consists of three segments. There is a core topic in methodology which is compulsory. In addition students are expected to select one elective course. Details of the electives available in 1981 will be found in the Handbook. All students must undertake a thesis on an approved topic.

GERMAN LANGUAGE AND LITERATURE.

AG01 German I, AG11 German IA, AG02 German II, AG12 German IIA and AG03 German III are subjects for the Ordinary degree of Bachelor of Arts, AG87 German IIB and AG88 German IIIB may be taken as subjects for the Ordinary degree. Candidates for the Honours degree of B.A. in German must take these either as whole subjects or as part of approved combined subjects (see the Schedules of the degree of B.A. and AG99 German for the Honours degree of B.A.).

Students may be required to attend tutorials at times additional to those published in the calendar.

Students may wish to supplement their academic course-work by joining the German Students' Club, the Adelaide German Club, the Goethe Society, and by additional, independent work in the Language Laboratory.

More detailed information on course aims and the options available may be found in the Departmental Handbook. Students are requested to collect their copy of the year's Departmental Handbook from the Secretary's office from November of the preceding year.

Note: Evening classes (in addition to day classes) are offered in German I, II and III in 2-yearly cycles, as staff and students allow. In 1981 German II and III will be offered both in the day and in the evening.

AG01 German I.

It will be assumed that candidates have studied German to fourth-year secondary school level. Students with outstanding qualifications in language may, with the permission of the Department, take the language component of the course at a more advanced level.

A. LANGUAGE.

Prescribed texts:

- Conant, J. B., ed., *Cochran's German review grammar* (Prentice-Hall).
(This text will be used for the language option only.)
Langenscheidt's concise German dictionary (Hodder and Stoughton).

B. INTRODUCTION TO MODERN GERMANY.

(i) Germany 1945–1981.

Prescribed texts:

- Grosser, A., *Germany in our time* (Pelican).
Johann, E., and Junker, J., *German cultural history of the last hundred years* (this text is available from the Department).
Kloss, G., *West Germany: An introduction* (Macmillan).
Radcliffe, S., *Twenty-five years on: the two Germanies 1970* (Harrap).

Duplicated material will be available in the Department.

(ii) Studies in the West German press: newspapers provided by the Department.

(iii) Selected German Literary Texts of the 1970's.

Prescribed texts:

- Böll, H., *Die verlorene Ehre der Katharina Blum* (dtv 1150) and the film.
Plenzdorf, U., *Die neuen Leiden des jungen W.* (Wiley).
Wolf, C., *Selbstversuch* (available from the Department).

C. SELECTED GERMAN LITERARY TEXTS OF THE 20TH CENTURY.

Prescribed texts:

- Newnham, R. (ed.), *German Short Stories: Parallel Texts*, vols. 1 and 2 (Penguin).
Kafka, F., *Short Stories* (O.U.P.).
Mann, T., *Mario und der Zauberer* (Fischer Schulausgabe).
Brecht, B., *Leben des Galilei* (Heinemann).
Grass, G., *Katz und Maus* (Heinemann).

D. PRACTICE IN CONVERSATION.

Practice in conversation, pronunciation, etc. is given in regular tutorial classes and on Intensive Conversation days each term (see details in Department Handbook). Taped programmes will be provided in the Language Laboratory for some classes.

AG02 German II.

Pre-requisite subject: A pass in AG01 German I.

In 1981 AG02 German II will be offered in the day and the evening.

In AG02 German II Studies in German Literature and Cultural Background are divided into a core course, compulsory for all members, and a series of options. Options will be offered, as staff and students allow, as listed below under C. The core course is given in first term. For second and third terms students will in each case choose *one* option.

Note: (1) Options for IIB and IIIB and Finals for **all** terms are listed below under C; and (2) an option may not be counted as part of more than one subject.

All options are common to German II, IIA, III, IIB and IIIB but it is possible for students to choose options directly related to the core course in Background Studies. In 1981 these studies span the period 1870–1945. All options fall into two groups: Group A and Group B. In 1981 Comparative Literature, Comparative Short Story and Language Learning and Teaching form Group B. All other options form Group A. The following limits apply to the number of Group B options students may take:

- (i) A student doing only German II or German IIA may take one option from Group B in second year.
- (ii) A student majoring in German may take at most two options from Group B over second and third year.
- (iii) Students doing IIB as well as II (or IIA) and IIIB as well as III may include two Group B options in each sequence if they wish, thus a total of four in a double major (both III and IIIB).

For further explanatory notes see *Departmental Handbook*.

Students with outstanding qualifications in language may, with the permission of the Department, take the language component of the course at a more advanced level.

A. LANGUAGE.

Prescribed texts:

- Tapes, videotapes and duplicated material available in the Department.
- Duden, K., *Der grosse Duden, Bd. 2: Stilwörterbuch*.
- Wahrig, G., *dtv-Wörterbuch der deutschen Sprache* (dtv 3136).

B. STUDIES IN GERMAN LITERATURE AND CULTURAL BACKGROUND 1870–1945.

Prescribed texts:

- Enzensberger, H. M., *et al.* (ed.), *Klassenbuch*, vols. 2 and 3 (Luchterhand).
- Brett-Evans, D., *Makers of the twentieth century: Marx, Nietzsche, Freud* (Prentice-Hall).
- Toller, E., *Eine Jugend in Deutschland* (rororo).
- Mann, H., *Der Untertan* (dtv).
- Hofmannsthal, H. von, *Essays* (A selection will be distributed by the Department).
- Johann, E., and Junker, J., *German cultural history of the last hundred years* (Nymphenburg). (Copies to be distributed by the Department).

FIRST TERM.

C. OPTIONS.

(i) 19TH CENTURY PROSE.

Prescribed texts:

- Wiese, B. v. (ed.), *Deutschland erzählt: Von Büchner bis Hauptmann* (Fischer 711).
- Mörike, E., *Mozart auf der Reise nach Prag* (Harrap).
- Storm, T., *Aquis submersus* (Reclam).
- Fontane, T., *Irrungen Wirungen* (Macmillan).

SECOND TERM.

The following options are available to all students.

(i) WEST GERMAN LITERATURE OF THE 70's.

Prescribed texts:

Handke, P., *Der kurze Brief zum langen Abschied* (Suhrkamp Taschenbuch).

Böll, H., *Die verlorene Ehre der Katharina Blum* (dtv 1150).

Degenhardt, F. J., Selection of songs to be distributed by the Department.

Grass, G., *Der Butt* (Fischer Bd. 2181).

*Enzensberger, H. M., *Der Untergang der Titanic* (Suhrkamp).

Mechtel, A., *Wir sind arm, wir sind reich* (rororo 4459).

*If this text is not available in paperback by 1981, early notice will be given of a substitute.

(ii) SATIRE.

Prescribed texts:

Heine, H., *Atta Troll* (O.U.P.).

Sternheim, C., *Der Snob* (Reclam).

Thoma, L., *Der Münchener im Himmel* (dtv).

Tucholsky, K., *Zwischen gestern und morgen* (rororo).

Feinäugle, N. (ed.), *Satirische Texte. Arbeitstexte für den Unterricht* (Reclam 9525).

Gast, W. (ed.), *Parodie. Deutsche Literatur und Gebrauchsparodien mit ihren Vorlagen* (Reclam 9521).

Dürrenmatt, F., *Griechen sucht Griechin* (Ullstein).

Böll, H., *Ende einer Dienstfahrt* (dtv).

Duplicated material from satiric anthologies will be provided by the Department.

(iii) MUSIC AND LITERATURE.

Prescribed texts:

Sophocles, *Electra & other plays* (Penguin Classics, ed. Watling).

Praver, S. S., *Penguin Book of German Lieder* (may be borrowed from the Department).

Büchner, G., *Woyzeck* (Manchester U.P., ed. M. Jacobs).

Hofmannsthal, H. von, *Elektra* (B. Schott u. Söhne).

Wagner, R., *Die Meistersinger von Nürnberg* (Reclam).

Hindemith, P., *Mathis der Maler* (B. Schott u. Söhne).

(iv) LITERATURE AND SOCIETY (NATURALISM) 1880-1910.

Prescribed texts:

Enzensberger, H. M., et al., *Klassenbuch 2, 1850-1919* (Luchterhand).

Holz, A., and Schlaf, J., *Papa Hamlet* (Reclam 8855).

Holz, A., and Schlaf, J., *Familie Selicke* (Reclam 8982).

Hauptmann, G., *Der Biberpelz* (Ullstein).

Hauptmann, G., *Die Ratten* (Methuen).

Kretzer, M., *Meister Timpe* (Reclam 9829).

Wedekind, F., *Der Erdgeist* (Goldmann 7534).

Wedekind, F., *Die Büchse der Pandora* (Goldmann 7534).

THIRD TERM.

All options available to all students.

(i) COMPARATIVE STUDIES IN THE 20TH CENTURY SHORT STORY. (B)

Prescribed texts:

B. v. Wiese (ed.), *Deutschland erzählt* (Fischer 500, Schnitzler-Johnson).

B. v. Wiese (ed.), *Deutschland erzählt* (Fischer 1660, Rilke-Handke).

Thomas, R. H. (ed.), *Seventeen modern German stories* (O.U.P.).

Heseltine, H. (ed.), *Penguin Book of Australian Short Stories* (Penguin).

Dolley, C. (ed.), *Penguin Book of English Short Stories* (Penguin).

Ulrich (ed.), *Deutsche Kurzgeschichten 11–13. Schuljahr* (Reclam 9508).

Klose (ed.), *Wir erzählen Geschichten* (Reclam 9552).

(ii) C706 COMPARATIVE LITERATURE.

For syllabus see under "Comparative Literature" immediately after the Classics syllabus. All students taking this course must enrol for the Option C706 Comparative Literature in the Unit/Option section of the Enrolment Form.

(iii) STUDIES IN AUSTRIAN LITERATURE.

Prescribed texts:

Grillparzer, F., *Der arme Spielmann* (Reclam).

Stifter, A., *Bergkristall* (Reclam).

Schnitzler, A., *Professor Bernhards* (Pergamon).

Musil, R., *Drei Frauen* (Rowohlt Taschenbuch).

Doderer, H. von, *Das letzte Abenteuer* (Reclam).

Roth, J., *Kapuzinergruft* (Rowohlt).

Bernhard, T., *Prosa* (Suhrkamp).

Kraus, K., A short selection of his writing will be distributed by the Department.

Frischmuth, B., *Rückkehr zum vorläufigen Ausgangspunkt Haschen nach Wind* (dtv).

Tintenfisch 16. Literatur in Österreich Rot weiss rot (Wagenbach).

(iv) EXPRESSIONISM AND WEIMAR REPUBLIC 1910–1933.

Prescribed texts:

Rühmkorf, P. (ed.), *Expressionistische Gedichte* (Wagenbach 131).

Sternheim, C., *Die Hose* (Luchterhand).

Kaiser, G., *Von morgens bis mitternachts* (Methuen).

Barlach, E., *Der arme Vetter* (Reclam).

Toller, E., *Masse Mensch* (Reclam).

Brecht, B., *Baal* (Suhrkamp es 170).

Brecht, B., *Trommeln in der Nacht* (Suhrkamp es 490).

Döblin, A., *Berlin Alexanderplatz* (dtv 295).

AG03 German III.

Pre-requisite subject: AG02 German II or AG12 German IIA or AG87 German IIB.

In 1981 AG03 German III will be offered in the day and the evening.

The AG03 German III course will be the same as the AG02 German II course in the areas of literature and background studies including options.

Note: An option may not be counted as part of more than one subject.

The language component of AG03 German III will be as below. Students in AG03 German III will be required to complete the literature and background components of the course at a more advanced level than those doing AG02 German II. Students with outstanding qualifications in language may, with the permission of the Department, take the language component of the course at a more advanced level.

A. LANGUAGE.

Prescribed texts as for AG02 German II. Language work will be based on sound and videotapes as well as taped material distributed by the Department.

B. STUDIES IN GERMAN LITERATURE AND CULTURAL BACKGROUND.

See AG02 German II entry under this heading.

C. OPTIONS.

See AG02 German II entry under this heading.

AG11 German IA.

No previous knowledge of German is required. The Department may refuse admission to the course to students whose knowledge of the language duplicates sections of the course. Students with some knowledge of the language should therefore consult the Department before enrolling.

A. LANGUAGE: Speaking, reading, comprehension, writing, grammar.

Prescribed texts:

Schäpers, R., *Deutsch 2000 Band 1 and 2* (Hueber).

Schäpers, R., *Arbeitsbuch 1 and 2* (Hueber).

Schäpers, R., *Glossar Deutsch-Englisch 1 and 2* (Hueber).

Schäpers, R., *Deutsch 2000—A grammar of contemporary German* (Hueber).

Langenscheidt's concise German dictionary (Hodder and Stoughton).

B. LANGUAGE AND LITERATURE: Reading, discussion, grammar, lectures.

Prescribed texts:

Vail, V. H., and Sparks, K., *Der Weg zum Lesen: a German structural reader*, 2nd edition (Harcourt, Brace and Jovanovich).

Newnham, R. (ed.), *German short stories*, Parallel texts, vol. 1 (Penguin).

Brecht, B., *Kalendergeschichten* (Rowohlt TB R-G776).

Böll, H., *Doktor Murkes gesammeltes Schweigen* (Harrap).

C. ORAL.

Oral work is an integral part of the course and of the assessment in this course. Candidates are advised that they must devote a total of at least two hours weekly to independent work in the Language Laboratory.

AG12 German IIA.

Pre-requisite subject: A pass in AG11 German IA.

A. LANGUAGE.

Prescribed texts:

Schäpers, R., *Deutsch 2000—Band 3* (Hueber).

Schäpers, R., *Glossar Deutsch-Englisch 3* (Hueber).

Conant, J. B. (ed.), *Cochran's German review grammar* (Prentice-Hall).

B. STUDIES IN GERMAN LITERATURE AND CULTURAL BACKGROUND.

See AG02 German II entry under this heading.

C. OPTIONS.

Note: No part of this subject may also be counted as part of another subject.

See AG02 German II entry under this heading.

AG87 German IIB.

Pre-requisite subject: A pass in AG01 German I or AG11 German IA.

Note: No part of this subject may also be counted as part of another subject.

A. LANGUAGE.

Prescribed texts as for AG02 German II. Video and sound tapes and duplicated material are available in the Department.

B. OPTIONS.

See AG02 German II.

AG88 German IIIB.

Pre-requisite subject: A pass in AG02 German II or AG12 German IIA or AG87 German IIB.

Note: No part of this subject may also be counted as part of another subject.

A. LANGUAGE.

Prescribed texts as for AG02 German II. Video and sound tapes and duplicated material are available in the Department.

B. OPTIONS.

See AG02 German II.

HONOURS DEGREE.**AG99 Honours German Language and Literature.**

Before entering the final honours year candidates for the Honours degree in German must have qualified for the Ordinary degree of B.A., and should normally have passed AG01 German I or AG11 German IA; AG02 German II or AG12 German IIA; AG87 German IIB, AG03 German III, and AG88 German IIIB, at appropriately high standard. However, the Department reserves the right to vary these pre-requisites where it is satisfied as to the academic merit of an applicant. Note that the pre-requisites concerning second- and third-year subjects may be fulfilled by taking approved combined subjects which include parts of these. See Schedules—Degree of B.A., Schedule III: The Honours Degree.

During the final year students will write a dissertation on some aspect of German literature or language. Choice of subject should be made not later than the beginning of the third term in the preceding year. Students must also attend advanced courses in language, together with literature options. Both thesis topic and literature options should be chosen in consultation with the Chairman of Department.

Final Honours students may be required to participate in a series of seminars for honours and postgraduate students and staff.

Students may obtain the permission of the Faculty of Arts to combine German with another subject for the Honours degree. They should consult the Chairman of Department as soon as possible, ideally before entering AG87 German IIB, so that a suitably modified course can be arranged. Where the subjects taken for the Ordinary degree of B.A. need to be chosen to satisfy the pre-requisites of more than one Department, a student may arrange with the Departments to take appropriate combined subjects, so as to avoid doing more than nine subjects to qualify for entry to combined honours.

AG74 Science German.

This subject is open to members of staff, research students and those Honours students required by their Departments to take the course in Science German. It is also suitable for anyone wanting to acquire a reading knowledge for any academic discipline. It consists of two lectures weekly throughout the year. Its aim is to ensure fluency in reading German and in translation from German into English. *No previous knowledge of the language is required.*

Text-book:

Schäpers, R., *Deutsch 2000—A grammar of contemporary German* (Hueber).

Dictionary:

Any small German/English dictionary (e.g. *Langenscheidt*).

HISTORY.

There are six subjects in History, each of which consists of one of a number of options, offered annually as staff and enrolments allow. When enrolling, students are asked to indicate their order of preference for the available options on a form obtainable from the Department of History. The allocation of students to options is then made by the Department. On past experience it is only at second-year (History II) level that a few students have to be allocated to options other than their first preference.

When only one history option at first-, second- or third-year level is taken by a student, that course shall be designated History IA (or IIA or IIIA, as the case may be). When a second course at the same level is taken (either simultaneously or subsequently) that course shall be designated History IB (or IIB or IIIB, as the case may be).

No more than five History subjects may be presented for the B.A. degree. A student proceeding to a degree must pass in AH01 History IA, *or* another appropriate subject approved by the Chairman of the Department before taking AH02 History IIA *or* AH22 History IIB; and in AH02 History IIA *or* AH22 History IIB, *or* (with the Chairman's approval) AC72 Ancient History II before taking AH03 History IIIA *or* AH13 History IIIB.

FIRST YEAR.

The following options will be offered, as staff and enrolments allow:

H101 EUROPEAN HISTORY.

No pre-requisite subject.

At the time of enrolment students will be asked to indicate on the form available from the Department of History which of the two courses in this option they prefer—A or B. Both courses cannot be taken.

A. Europe in Transition, 1200-1700.

A study of some aspects of change in European society, 1200-1700.

Preliminary reading:

- Hay, D., *The medieval centuries* (Methuen).
- Holmes, G. A., *Europe: hierarchy and revolt* (Fontana).
- Elton, G. R., *Reformation Europe* (Fontana).

OR

B. Problems and Perspectives in Modern European History.

This course delves into the history of Europe from the rise of the Nation-State and the spread of new Empires in the late Seventeenth Century to the consequences upon the European system with the Great Depression of 1929.

“Problems and Perspectives in Modern European History” is structured around eleven outstanding books, examples of the craft of historians on the one hand and the perceptions of contemporaries on the other hand.

Participants in the subject will be required to read the eleven books (by ten authors) listed below and can consult recommended readings they may wish to use to help formulate their tutorials papers. The tutorials are constructed around the readings.

The course lectures and the books are integrated to form a complete unit of study, attendance at lectures and tutorials, therefore, is **essential** if this course is to have any meaning to the student. The lectures are divided into three formats: they analyse and debate the findings of the historians under scrutiny; discuss the historical background of each book's subject; and link the segments of the course together, giving it a sense of continuity.

Required Reading:

- Voltaire, *Candide* (Dent).
- Rudé, G., *The crowd in the French Revolution* (O.U.P.).
- Geyl, P., *Napoleon: for and against* (Cape).
- Marx, K., *The class struggles in France*.
- Briggs, A., *Victorian cities* (Penguin), *Victorian people* (Penguin).
- Zola, E., *L'Assommoir* (Penguin).
- Eyck, E., *Bismarck and the German Empire* (Erlenbach).
- Ferro, M., *The Great War, 1914-1918* (R.K.P.)
- Trotsky, L., *The Russian Revolution* (Anchor).
- Bracher, K. D., *The German Dictatorship* (Penguin).

H102 OLD SOCIETIES AND NEW STATES: THE REVOLUTIONARY TRANSFORMATION OF ASIA, AFRICA AND THE PACIFIC, 1700 TO THE PRESENT.

No pre-requisite subject: available to approved students with exemption from lectures.

This is a course about the origins of the modern world.

It concentrates on developments outside Europe and North America, and hence on the non-western component of modern history. Basic to it, however, is an examination of key issues in social/political change and economic development which are vital to any student of history's broad understanding of the historical processes which have brought the present-day world into being. It is, therefore, a course both for students whose prime concern will be with European history and for those who will later seek to specialise in the history of non-western societies.

There are two sections to the course. The first (terms one and two) attempts a broad sweep of non-western historical development over a period of some 200-300 years. Among the issues to be discussed will be the characteristics of so-called traditional society, the implications of western imperialism for socio-economic development, and varieties of political response to imperialism including revolutionary nationalism, communism and "fascism". In the second section of the course (term three), you will have the opportunity of making an in-depth study of a particular issue and/or country of your choice.

Throughout the course, **emphasis is on a broad understanding of selected historical problems and controversies**, rather than on the acquisition of detailed knowledge of the history of individual societies.

Introductory Reading:

The most stimulating single book (to which reference will be made frequently in terms I and II) is:

Moore, B., *The social origins of dictatorship and democracy* (Penguin-Pelican).

Some students may find it rather hard going at so early a stage in the course, and equally valuable preliminary reading is provided by a selection of the following individual and area studies; these are not "set-texts" but simply good books covering some of the major themes of this course.

Fanon, F., *The wretched of the earth* (Penguin).

Kiernan, E. V. G., *The lords of human kind*.

Osborne, M., *Southeast Asia: an introductory history*.

Bianco, L., *The origins of the Chinese Revolution* (Stanford U.P.).

Reischauer, E. O., *Japan: story of a nation* (Duckworth).

Lloyd, P. C., *Africa in social change*.

Lewis, D., *The voyaging star* (Collins).

These books can either be bought or found and read in the Barr Smith Library.

H103 AUSTRALIAN HISTORY.

No pre-requisite subject.

A first-year option: not available to students with exemption from lectures.

The course surveys aspects of Australian social history since 1788. It examines the origins and development of Australian society and the ideas Australians have held about themselves, their work, their government and their environment, and about people and countries outside Australia. The course will also introduce students through lectures, tutorials and written work to basic historical techniques and procedures.

Introductory reading:

Crawford, R. M., *Australia* (Hutchinson).

Blainey, G., *Triumph of the nomads* (Melbourne U.P.).

McQueen, H. *A new Britannia* (Penguin).

Ward, R., *The Australian legend* (O.U.P.).

A fuller reading list and more course information will be available at the preliminary lecture.

The subjects offered in first year are:

AH01 History IA.

One of the first-year options.

AH31 History IB.

One of the first-year options not already passed or being taken concurrently.

SECOND YEAR.

The following options will be offered, as staff and enrolments allow.

H701 COMPARATIVE HISTORY OF THE FAMILY IN WESTERN EUROPE, AMERICA AND AUSTRALIA.

A study of the demographic and social aspects of the family and household in history. In first term the focus will be on early modern England and Western Europe with lectures and seminars on migration, population change, marriage, parent-child relationships, household size, industrialisation and the family. As a preliminary to work on Australia, particular attention will be paid to the demographic history of the *English* family.

In second term the family in Colonial America will be the main interest. Other topics will include comparison of England and early America in family size, mobility, population growth, and the position of women. Seminar work will involve some analysis of American census material.

Finally in third term, the Australian family. Because of the dearth of literature in this field, there will be an emphasis on students doing their own research on the family, using literary material (diaries, family papers, autobiographies) and census material and vital records for South Australia, in particular, and Australia in general.

Available to students with exemption from lectures.

Introductory reading:

Goode, W. F., *The family* (Prentice-Hall).

de Mause, L. (ed.), *The history of childhood* (Harper and Row).

Rabb, T., and Rotberg, R. (eds.), *The family in history* (Harper and Row).

Wrigley, E. A., *Population and history* (Weidenfeld and Nicolson).

Laslett, P., *The world we have lost*, 2nd edition (Methuen).

Aries, P., *Centuries of childhood* (Cape).

Morgan, E. S., *The Puritan family* (Harper and Row).

Kingston, B., *My wife, my daughter and poor Mary Ann* (Nelson, Australia).

Dixon, M., *The real Matilda. Women and identity in Australia 1788-1975* (Penguin).

H702 THE RISE OF CHINA AND JAPAN. CONFLICT AND CRISIS IN MODERN EAST ASIA.

A study of the political, socio-economic, and cultural transformation of modern China and Japan in the nineteenth and twentieth centuries.

Not available to students with exemption from lectures.

Introductory reading:

Fairbank, J. K., Reischauer, E. O., and Craig, A. M., *East Asia: tradition and transformation* (Allen and Unwin).

Hsu, I. C. Y., *The rise of modern China* (O.U.P.).

Fairbank, J. K., *The United States and China* (Harvard).

Bianco, L., *Origins of the Chinese revolution* (Stanford U.P.).

Han, Suyin, *The crippled tree* (Mayflower).

Beasley, W. G., *Modern history of Japan* (Weidenfeld and Nicolson).

Maruyama, M., *Thought and behaviour in modern Japanese politics* (O.U.P.).

Benedict, R., *The chrysanthemum and the sword* (Weidenfeld and Nicolson).

Mishima, Y., *Runaway horses* (Secker and Warburg).

Crowley, J. B., *Modern East Asia: essays in interpretation* (Harcourt Brace).

H703 FRANCE 1850–1918.

A political, social and intellectual history which begins with the themes of Bonapartism and democracy after the 1848 Revolution, and ends with an analysis of the effects of the First World War on French society. Amongst the topics to be examined in depth will be: Bonapartism in practice during the régime of the Second Empire; painters, writers and musicians under Napoleon III; peasant society in nineteenth-century France; the Franco-Prussian War and the Paris Commune of 1871; Catholicism, anticlericalism and the conflict over education; the Dreyfus Affair and the origins of modern antisemitism; the French Army, conscription and the War of 1914–1918.

Not available to students with exemption from lectures.

Preliminary reading:

One of the standard histories of the Revolution of 1848: Denholm, A. F., *France in revolution: 1848* (Wiley), gives a detailed account from contemporary sources.

Recommended books:

- Zeldin, T., *France 1848–1945*, 2 volumes (O.U.P. paperback).
Williams, R. L., *The world of Napoleon III* (Collier paperback).
Bury, J. P. T., *Napoleon III and the Second Empire* (English University Press).
Zeldin, T. (ed.), *Conflicts in French society* (Allen and Unwin).
Kamenka, E. (ed.), *Paradigm for revolution: The Paris Commune* (A.N.U. Press, paperback).
Brogan, D. W., *The development of modern France* (Hamish Hamilton).
Zola, E., *Germinal* (Penguin), *L'Assommoir* (Penguin), *Earth* (Mentor).
Berlioz, H., *The memoirs of Hector Berlioz* (Gollancz).
Chapman, G., *The Dreyfus trials* (Paladin, paperback).
Thomson, D., *France: Empire and Republic* (Harper and Row).

H704 WAR AND PEACE: BRITAIN, GERMANY AND THE GREAT WAR, 1890's–1930's.

This course focuses on the Great War in Europe; its coming; its nature and course; its overt and covert consequences. Two countries are studied in depth: Britain and Germany. Britain is given first priority in tutorial work. In the general lecture course, extensive reference is made also to Germany and other European powers.

A special elective will be organised as an integral part of the course: *Literature, History and Society*. This will provide opportunities for interested students to explore the relationships between literature, culture and society on the one hand and some of the larger historical issues in the course on the other.

This option is not available to students with exemption from lectures.

Introductory reading:

- Joll, J., *Europe since 1870* (Pelican).
Read, D., *Edwardian England* (Harrap).
Lloyd, T. O., *Empire to welfare state* (O.U.P.).
Taylor, A. J. P., *The First World War: an illustrated history* (Penguin).
Craig, G., *Germany 1866–1945* (O.U.P.).
Taylor, A. J. P., *English history 1914–1945* (Pelican).

H705 RUSSIA IN CRISIS AND REVOLUTION: FROM PETER THE GREAT TO THE DEATH OF STALIN.

This course is concerned with those social, political, intellectual, economic and diplomatic problems which pressed upon Tsarist Russia and then the Soviet Union as that nation attempted to join and then compete in the Western milieu.

Available to approved students with exemption from lectures.

Introductory reading:

- Billington, J., *The icon and the axe* (Weidenfeld and Nicolson).
 Blum, J., *Lord and peasant in Russia from the ninth to the nineteenth century* (Princeton).
 Fainsod, M., *How Russia is ruled* (Harvard).
 Szamuely, T., *The Russian tradition*.
 Weidlé, W., *Russia: Absent and present* (Hollis and Carter).

Textbook:

- Riasanovsky, N., *A history of Russia* (O.U.P.).

H707 BISMARCK TO HITLER.

A history of the Germans from unification to division. Political, social and economic issues will be discussed in a course of lectures, and intellectual and cultural issues in a parallel tutorial course.

Not available to students with exemption from lectures.

Introductory reading:

- The New Cambridge Modern History, relevant chapters in vols. X–XII (Cambridge U.P.).

For constant reference:

- Holborn, H., *A history of modern Germany, 1840–1945* (Eyre and Spottiswoode).
 Pinson, K. S., *Modern Germany—its history and civilization* (Macmillan).
 Bracher, K. D., *The German dictatorship* (Penguin).
 Stolper, G., *The German economy—1870 to the present* (Weidenfeld and Nicolson).
 Dawidowicz, L., *The war against the Jews* (Pelican).

H709 AUSTRALIA: OUTPOST OF EMPIRE IN THE ANTIPODES.

A study of Australian history from the 1850s to the 1930s emphasising the interaction between British heritage and Australian environment.

This option is available to approved students with exemption from lectures.

Introductory reading:

- Blainey, G., *The tyranny of distance* (Sun Books).
 Crawford, R. M., *Australia* (Hutchinson).
 Crowley, F. K. (ed.), *A new history of Australia* (Heinemann).
 Hancock, W. K., *Australia* (Jacaranda Press).
 Thomson, D., *England in the nineteenth century* (Pelican).
 Thomson, D., *England in the twentieth century* (Pelican).

H710 PACIFIC HISTORY.

A study of social change in the Pacific islands from the earliest human occupation to the present day. Comparative material from New Zealand will also be included and there will be opportunities for specialisation within the area.

Available to approved students with exemption from lectures.

Introductory reading:

- Bellwood, P., *Man's conquest of the Pacific* (Collins).
 Lewis, D., *The voyaging stars* (Collins).
 Davidson, J. W., and Scarr, D. (eds.), *Pacific Islands portraits* (A.N.U.).
 Scarr, D. (ed.), *More Pacific Islands portraits* (A.N.U.).
 Ralston, C., *Grass huts and warehouses* (A.N.U.).

H711 THE UNITED STATES: SETTLEMENTS TO CIVIL WAR.

The course falls roughly into three sections: The growth of American societies, 1600–1760; Revolution and the birth of the republic, 1760–1820; The American tragedy: slavery, sectionalism and civil war, 1820–1865.

H713 NATIONALISM AND REVOLUTION IN SOUTHEAST ASIA.

A study of the transformation of traditional Southeast Asian societies from about 1800 to the present. A survey of the history of the region will be accompanied by a special examination of Indonesia, Malaysia and Vietnam.

This option is available to approved students with exemption from lectures.

Introductory reading:

Bastin, J., and Benda, H. J., *A history of modern south east Asia*, 2nd edition (Prentice-Hall).

Osborne, M., *Southeast Asia: An introductory history* (Allen and Unwin).

Steinberg, D. J. (ed.), *In search of south east Asia: a modern history* (Praeger).

H714 EVERYMAN IN PRE-INDUSTRIAL EUROPE (c. 1300–1700), HIS MENTALITY AND HIS BASIC CONDITIONS OF LIFE.

This course will examine the life and beliefs of the unwashed masses, the base men and women of mean estate, the peasants and artisans of pre-industrial Europe. The first term will concentrate on Everyman's basic conditions of life, food, housing, clothing, disease, hygiene, work, play, demography, and climate. The second term will focus on Everyman's mentality, attitudes towards family, children, women, sexuality, religion and death. During third term students will apply the knowledge and methods learned in the first two terms on a major research project. Available to approved students with exemption from lectures.

Reading:

Braudel, F., *Capitalism and material life* (Fontana).

McNeill, W., *Plagues and peoples* (Doubleday).

Ariès, P., *Centuries of childhood* (Penguin).

Thomas, K., *Religion and the decline of magic* (Penguin).

H715 AFRICAN HISTORY.

An introduction to the history of the peoples of Africa from earliest times to the present day. During the third term students will be encouraged to undertake individual study projects in line with their special interest.

This option is not available to students with exemption from lectures.

Introductory reading:

Davidson, B., *The Africans* (Longmans).

Oliver, R. A., and Atmore, A., *Africa since 1800* (C.U.P.).

Curtin, P., and others, *African history* (Longmans).

H716 FASCISM AND NATIONAL SOCIALISM.

A study of the whole spectrum of fascist and national socialist movements in Europe from 1918 to 1945. The course will consider the emergence of fascist and national-socialist concepts; the development of movements contending for power; the nature of the fascist or national-socialist state; and the transformation of these movements during the second world war. While examining fascism and national socialism as specifically European phenomena, attention will be directed to particular movements in countries as widely separated as France, Italy, Germany, Austria, Spain, Great Britain, Belgium, the Netherlands, Norway, Finland, Hungary and Rumania whenever appropriate.

This option is available to approved students with exemption from lectures.

Introductory reading:

Carsten, F. L., *The rise of fascism* (California U.P.).

Weber, E., *Varieties of fascism* (Anvil).

Turner, H. A. Jr. (ed.), *Reappraisals of fascism* (New Viewpoints).

Laqueur, W. (ed.), *Fascism: a reader's guide* (California U.P.).

The subjects offered in second year are:

AH02 History IIA.

Pre-requisite: Pass in AH01 History 1A or AH31 History IB or another appropriate subject approved by the Chairman of the Department.

AH22 History IIB.

Pre-requisite: Pass in AH01 History IA or AH31 History IB or another appropriate subject approved by the Chairman of the Department; and pass in AH02 History II (before 1978) or enrolment in AH02 History IIA.

THIRD YEAR.

The following options will be offered, as staff and enrolments allow:

H701 COMPARATIVE HISTORY OF THE FAMILY IN WESTERN EUROPE, AMERICA AND AUSTRALIA.

H702 THE RISE OF CHINA AND JAPAN. CONFLICT AND CRISIS IN MODERN EAST ASIA.

H703 FRANCE, 1850–1918.

H704 WAR AND PEACE: BRITAIN AND GERMANY AND THE GREAT WAR, 1890's–1930's.

H705 RUSSIA IN CRISIS AND REVOLUTION: FROM PETER THE GREAT TO THE DEATH OF STALIN.

H707 BISMARCK TO HITLER.

H709 AUSTRALIA: OUTPOST OF EMPIRE IN THE ANTIPODES.

H710 PACIFIC HISTORY.

H711 THE UNITED STATES: SETTLEMENTS TO CIVIL WAR.

H713 NATIONALISM AND REVOLUTION IN MODERN SOUTHEAST ASIA.

H714 EVERYMAN IN PRE-INDUSTRIAL EUROPE (c. 1300–1700), HIS MENTALITY AND HIS BASIC CONDITIONS OF LIFE.

H715 AFRICAN HISTORY.

H716 FASCISM AND NATIONAL SOCIALISM.

The subjects offered in third year are:

AH03 History IIIA.

Pre-requisite: Pass in AH02 History IIA, *or* AH22 History IIB, *or*, with the Chairman's approval, AC72 Ancient History II *or* AC73 Ancient History III.

One of the options not already passed as AH02 History IIA, *or* AH22 History IIB.

The syllabus in each of the options listed for AH03 History IIIA will be similar to that of the corresponding option in AH02 History IIA; but students taking AH03 History IIIA will be required to undertake an additional study relating to the material of the option.

AH13 History IIIB.

Pre-requisite: Pass in AH02 History IIA *or* AH22 History IIB and enrolment *or* pass in AH03 History IIIA.

One of the options not already passed as AH02 History IIA *or* AH22 History IIB *or* AH03 History IIIA.

The syllabus in each of the options listed for AH13 History IIIB will be similar to that of the corresponding option in AH02 History IIA; but students taking AH13 History IIIB will be required to undertake an additional study relating to the material of the option.

HONOURS DEGREE.

A student who wishes to enrol for the Honours degree in History must:

- (a) have passed in AH03 History IIIA and two other subjects in history; and
- (b) have reached a standard satisfactory to the Chairman of the Department of History in the first three years of study. (A student who has passed at Credit standard in at least two subjects including one in history will generally be deemed to have reached this standard.)

Students who wish to be admitted to Honours should consult the Chairman of the Department of History.

AH99 Honours History.

Honours work includes the writing of a thesis, and two special subjects:

Students may choose from a list of subjects to be offered by members of staff. The list will be available during the first term.

MUSIC.

(FOR THE DEGREE OF BACHELOR OF ARTS)

Courses are offered in the Elder Conservatorium and in the Centre for Aboriginal Studies in Music.

All students are encouraged to participate in the practical work of the Elder Conservatorium (e.g. choir; orchestra; chamber music). Those who have ability as performers may also apply for admission as "single study" students in voice or instrument.

UA61 Music IA.

No previous knowledge of music is required. However, students should be aware that the course involves intensive study in music theory. Students with some knowledge of music will be advised by the Elder Conservatorium concerning the level at which Music should be taken—UA61 Music IA *or* UA51 Music I. UA61 Music IA is usually a one-year course only and may lead to UA52 Music II only with the permission of the Director of the Elder Conservatorium.

The course consists of four hours lectures/tutorials a week.

1. MUSIC THEORY:

The course deals with the basic vocabulary and rudiments of music: the procedures of rhythm, melody, tonality, harmony and instrumentation are studied using the forms and styles of Western music as the basis for analysis.

Text-book:

Karolyi, O., *Introducing music* (Pelican).

Additional references will be prescribed by the lecturers.

2. MUSIC IN WESTERN SOCIETY:

A study of selected areas in music history, taking into account the general cultural background of the other arts.

Text-books:

Longyear, R. M., *Nineteenth century romanticism in music* (Prentice-Hall).

Palisca, C. V., *Baroque music* (Prentice-Hall).

Pauly, R. G., *Music in the classic period* (Prentice-Hall).

3. INTRODUCTION TO ETHNOMUSICOLOGY:

An introduction to literature on the role of music in society, and to methods of gaining analytical information from live performances.

4. ASSESSMENT:

Assessment is predominantly by assignments and tests, although students are required to sit for one examination at the end of the year.

Additional information is available from the Music Office.

UA51 Music I.

The course assumes a working knowledge of notation and the elementary principles of harmony.

The course consists of four hours lectures/tutorials a week.

1. MUSIC THEORY:

A course in tonal harmony and analysis.

Text-book:

Aldwell, E., and Schachter, C., *Harmony and Voice leading I* (Harcourt, Brace, Jovanovich).

Additional references will be prescribed by the lecturers.

2. MUSIC IN WESTERN SOCIETY:

A study of selected areas in music history, taking into account the general cultural background.

Text-books:

See UA61 Music 1A above.

3. INTRODUCTION TO ETHNOMUSICOLOGY:

See UA61 Music 1A above.

4. ASSESSMENT:

Assessment is predominantly by assignments and tests, although students are required to sit for one examination at the end of the year.

UA52 Music II.

Pre-requisite subject: UA51 Music I at Division I standard or higher; or UA61 Music IA, with permission of the Director of the Elder Conservatorium.

The course consists of an average of four hours of seminars a week, although the timetable is flexible and the number of hours varies during different weeks of the term.

1. MUSIC THEORY.

A weekly 2-hour class, consisting of:

(a) Study of tonal harmony and melody through exercises in constructive listening, the harmonising of melodies and figured basses, and the re-arranging of orchestral scores for small ensembles or piano. (Two terms.)

Set text:

Hardy, G., and Fish, A., *Music Literature: a work book for analysis*, vol. I (Dodd).

(b) Analysis, with particular reference to set works. (One term.)

Set works:

Dufay, G., *Missa L'Homme Armé*.

Mozart, W. A., *Symphony No. 40 in G minor* (Eulenberg).

Beethoven, L. van, *Symphony No. 8* (Eulenberg).

Bartok, B., *String Quartet No. 4* (Philharmonia).

Hartmann, K., *Symphony No. 6*. (Schott).

Assessment is based on a series of assignments and one examination at the end of the year.

2. HISTORY OF MUSIC (PROJECTS).

Two projects in the history of music, one in each of two terms, chosen from the Project Programme (refer B.Mus., Faculty of Music). Projects are studied from a broad perspective which covers, as well as specific considerations of music theory and music history, the musicological implications of the related arts, aesthetics, philosophy and sociology.

Intensive course work (half that normally required in the B.Mus. course) is followed by individual study, with a folio of work for the Project being submitted for assessment.

3. ELECTIVE STUDIES.

A choice of one unit from the following:

(a) Music in Education (Seminar/workshop for one term).

(b) Ethnomusicology (Seminar).

(c) Musicology (an additional project or exercise in music bibliography).

(d) Electronic Music (Foundation studio course).

Assessment is based on participation in the seminar/workshop and assignments.

Reading lists:

Reading lists for each project/seminar are provided by the lecturer concerned.

There are no set text-books for projects and electives.

UA53 Music III.

Pre-requisite subject: a Pass at Division I standard or higher in UA52 Music II.

The course consists of:

1. PROJECTS.

Two projects, one in each of two terms, chosen from the Project Programme (see B.Mus., Faculty of Music).

Projects are studied from a broad perspective which covers, as well as specific considerations of music theory and music history, the related musicological implications of the related arts, aesthetics, philosophy and sociology.

Intensive course work is followed by individual study, with a folio of work for the Project being submitted for assessment.

2. THEORETICAL STUDIES.

A choice of two topics from the Theoretical Studies programme, one in each of two terms.

3. ELECTIVE STUDIES.

Extension of work begun in UA52 Music II.

READING LISTS:

Reading lists for each Project are provided by the lecturer concerned. There are no set text-books.

MUSIC FOR THE HONOURS DEGREE OF B.A.

UA68 Music IIIS.

Available only to students who have the permission of the Director of the Elder Conservatorium to enter the Honours course.

The course consists of:

1. THEORETICAL STUDIES.

One weekly theory class (additional to the theoretical requirements of UA53 Music III).

2. PRELIMINARY HONOURS.

Preliminary honours work (seminars, workshops, practical work) in a chosen area; ethnomusicology, musicology, music in education.

3. PROJECT.

One project (additional to the requirements of UA53 Music III), chosen from the Project Programme.

Assessment is by assignments and tests as arranged.

UA69 Honours Music (B.A.).

Students intending to take Honours should consult the Director of the Elder Conservatorium before the beginning of their third year's work.

Pre-requisite subjects: UA51 Music I, UA52 Music II, UA53 Music III and UA68 Music IIIS.

Candidates will complete research assignments as directed during the year.

1. ETHNOMUSICOLOGY.

Syllabus: A course of seminars and individual tuition in the theoretical background to ethnomusicology, including field techniques, transcription, analytical procedures, performance techniques; or

2. HISTORICAL MUSICOLOGY.

Syllabus: A course of seminars and individual tuition in: paleography; selected theoretical writings; editorial practice; musicological method (analytical bibliography, source evaluation, periodisation of musical terminology); or

3. SYSTEMATIC MUSICOLOGY.

Syllabus: A course of seminars and individual tuition in: advanced acoustics; psycho-acoustics; music physiology; advanced music aesthetics; music philosophy; information theory; or

4. MUSIC IN EDUCATION.

A course of workshops in creative music, and improvisation; and a comprehensive study of more advanced teaching methods, including associated work in electronics. Part of this work will involve students taking projects into primary and secondary schools.

PHILOSOPHY.

FIRST YEAR.

There are three half-subjects: AL1H Philosophy IH (A), AL2H Logic IH, and AL3H Philosophy IH(B). Each is offered both in the day and in the evening. The department recommends taking the equivalent of a full subject, especially for Arts students. There are two ways to do this:

- (i) *AL1H Philosophy IH (A) and AL2H Logic IH.* This is an introduction to philosophy that includes the study of logic. A pass in both half-subjects with at least one at division I level allows entry into AL02 Philosophy II. A division I pass in AL2H Logic IH allows entry into AL22 Logic II. This combination is advised for those who may wish to proceed to third year. While AL2H Logic IH is not a pre-requisite for any later year philosophy subjects, it is a pre-requisite for logic options within those subjects, as well as for the subjects AL22 Logic II and AL23 Logic III. Knowledge of logic to at least the level of the first year course is often required in courses at Honours level, and may be required in some philosophy options in second and third years.
- (ii) *AL1H Philosophy IH(A) and AL3H Philosophy IH(B).* This is an introduction to philosophy without the study of logic. A pass in both half-subjects, with at least one at division I level, allows entry into AL02 Philosophy II which leads to third year philosophy subjects. It does not allow entry into AL22 Logic II or AL23 Logic III, and does not provide background that is often required for Honours level courses and may be required for some philosophy options in second and third years.

The half-subjects may be taken separately. Those who wish to study logic without philosophy will enrol in:

- (iii) *AL2H Logic IH alone.* A division I pass allows entry into AL22 Logic II, or else, under certain conditions, into AL23 Logic III. (See the description of AL23 Logic III below.) It does not allow entry into AL02 Philosophy II.

Those who wish to undertake just one half-subject of Philosophy may enrol in either of:

- (iv) *AL1H Philosophy IH(A) alone.*
- (v) *AL3H Philosophy IH(B) alone.*

In neither case will it be possible to enter any later year subject, unless a further half-subject is successfully completed in a later year.

No patterns of enrolment other than (i)-(v) are allowed. Thus, it is not possible to take all three half-subjects nor is it possible to take the combination of AL2H Logic IH and AL3H Philosophy IH(B). Three half-subjects or the combination of AL3H Philosophy IH(B) and AL2H Logic IH may be presented for a degree only if all are passed prior to March 1979.

The half-subject AL3H Philosophy IH(B) may not be available in future years.

There are no pre-requisites for any of the first-year half-subjects. They are completed in one year and are not normally available to students with exemption from lectures. Assessment for each half-subject is an aggregate of assessments for each term's work. There are no compulsory examinations in AL1H Philosophy IH(A) or in the second and third terms of AL3H Philosophy IH(B). Each half-subject consists of one lecture a week and one tutorial a fortnight.

AL1H Philosophy IH(A).

An introduction to some main problems of philosophy; the issues viewed in this course concern the nature of human beings and their situation in the universe. First term: *Ethics*. Is there a rational basis for morality, whether in terms of self-interest, the will of God, the demands of society or the greatest happiness of the greatest number? Second term: *Knowledge and/or Mind*. What, if anything, can we know and what light may be shed on the nature of man? Is a person merely a complex physical thing or is a spiritual element essential to being human? Third term: *Concepts of Freedom*. The classical problem of whether people act freely in the natural world, and, if they do, how and in what social conditions they may do so.

Text-books:

Frankena, W. K., *Ethics* (Prentice-Hall).

Hospers, J., *An introduction to philosophical analysis* (Routledge and Kegan Paul).

AL2H Logic IH.

In first term some general features of reasoning will be studied.

Text-book:

To be announced.

The second and third terms will comprise an introduction to modern formal logic.

Text-book:

Lemmon, E. J., *Beginning logic* (Nelson).

Certain transfers between AL2H Logic IH and AL3H Philosophy IH(B) are allowed by the department. Details of these will be supplied in an information sheet in March, 1981.

AL3H Philosophy IH(B).

The first term is identical with that of AL2H Logic IH.

In second term the topic is *The existence of God*. This will largely be a discussion of arguments for and against the existence of God.

Text-book:

Hospers, J., *An introduction to philosophical analysis* (Routledge and Kegan Paul).

In the third term the topic is *Human and non-human nature*: a discussion of certain ideas central to an understanding of man's relation to the social and natural environment.

Text-book:

Leiss, W., *The limits to satisfaction* (Toronto U.P.).

Certain transfers between Logic IH and Philosophy IH(B) are allowed by the department. Details of these will be supplied in an information sheet in March 1981.

SECOND YEAR.

There are two subjects. AL02 Philosophy II consists of three term-long options. AL22 Logic II consists of the three logic options. These subjects are completed in one year and are not normally available to students with exemption from lectures. Each option is normally two lectures and one tutorial each week. Pre-requisites for subjects and special pre-requisites for some options are stated in their descriptions.

Logic options: Students who completed the pre-requisite courses for L201, L205 or L208 some time ago should revise their knowledge before beginning the option. Please consult the Department for advice on suitable revision texts well before the option begins.

It is expected that the options will be:

L201 LOGIC A: First term.

Pre-requisite: AL2H Logic IH in 1976 or later years; or a logic course deemed equivalent by the Chairman of the Department.

Text-book:

Copi, I., *Symbolic logic*, 5th edition (Macmillan).

C708 ANCIENT PHILOSOPHY: First term.

For syllabus see under Classics (AC33 Classical Studies III).

L203 PHILOSOPHY OF RELIGION: First term.

Topics include Eastern religions and mysticism.

Preliminary reading:

Smart, N., *The religious experience of mankind*, Chs. 1 and 3 (Fontana).

Text-book:

Rowe, W. L., and Wainwright, W. J. (eds.), *Philosophy of religion* (Harcourt, Brace Jovanovitch).

L221 RELATIVISM, WITCHCRAFT, TRUTH AND LOGIC: First term.

Text-book:

Wilson, B. R., *Rationality* (Harper Torchbooks).

Other suggested reading:

Evans-Pritchard, E. E., *Witchcraft, oracles and magic among the Azande* (O.U.P.).

Haack, S., *Deviant logic* (C.U.P.).

Levy-Bruhl, L., *How natives think* (Allen and Unwin).

Mead, M., *Culture and commitment* (Bodley Head).

Philips, D. Z., *The concept of prayer* (Routledge).

Winch, P., *The idea of a social science* (Routledge).

Whorf, B. L., *Language, thought and reality*, ed. J. Carroll (M.I.T.).

L217 PROBLEMS IN CAUSATION: Second term.

Discovery and utilisation of causes is essential for scientific advance and practical survival. But what in general makes (or makes us believe) that one event is the cause of another?

Text-book:

Sosa, E., *Causation and conditionals* (O.U.P.).

L205 LOGIC B: Second term.

Pre-requisite: Logic A L201.

A study of some problems in the philosophy of logic.

Text-book:

Haack, S., *Philosophy of logics* (C.U.P.).

L225 POLITICAL PHILOSOPHY: Second term.

A study of the relationship between Hobbes's psychological postulates and the political theory they are intended to support. Considerable attention will be given to a reconstruction of Hobbes's milieu.

Text-books:

Gert, B., (ed.), *Man and citizen: Thomas Hobbes* (Humanities/Harvester).

Raphael, D. D., *Hobbes: morals and politics* (Allen & Unwin).

L204 ETHICS: Second term.

The first third of the lectures will be on Kant's moral philosophy; the remainder on twentieth-century Meta-Ethics.

Text-books:

Kant, T., *The moral law*, tr. H. J. Paton (Hutchinson).

Hudson, W. D., *Modern moral philosophy* (Macmillan).

A further option, L226, may be offered in second term, depending on the availability of staff. An announcement will be made by February 1981 confirming or withdrawing the option. If the option is offered, the topic and text-books will be advertised in the same announcement.

L211 MARXISM: Third term.

A philosophical study of the thought of Karl Marx and later Marxists and some of their critics. Topics covered will include the theory of human nature, alienation, historical materialism, the critique of capitalist society, the state, revolution, ideology, communism.

Text-books:

Marx, K., *Selected writings*, ed. D. McLellan (O.U.P.).

Marx, K., *Selected writings in sociology and social philosophy*, T. B. Bottomore and M. Rubel (eds.), 2nd edition (Pelican).

Required reading:

Avineri, S., *The social and political thought of Karl Marx* (C.U.P.).

Lichtheim, G., *Marxism* (Routledge & Kegan Paul).

McLellan, D., *The thought of Karl Marx* (Macmillan).

All books are available in paperback editions.

L208 LOGIC C: Third term.

Pre-requisite: L205 Logic B.

Details and text to be announced by February, 1981.

L227 BRAINSTORMS: Third term.

A study of problems in the philosophy of mind.

Text-book:

Dennett, D. C., *Brainstorms: philosophical essays on mind and psychology* (Bradford Books).

A further option, L228, may be offered in third term, depending on the availability of staff. An announcement will be made by February 1981 confirming or withdrawing the option. If the option is offered, the topic and text-books will be advertised in the same announcement.

The subjects offered are:

AL02 Philosophy II.

Pre-requisite: *Either*

(a) Division I pass or better in one of AL1H Introductory Philosophy IH (1974) or AL1H Philosophy IH(A) or AL3H Philosophy IH(B) or AL2H Logic and Argument IH (1974) or AL2H Logic IH and a Division II pass or better in another; *or*

(b) Division I pass or better in AL01 Philosophy I before 1974.

One option each term.

AL22 Logic II.

Pre-requisite: Division I pass or better in AL2H Logic IH in 1976 or a later year; or a Division I pass or better in a logic course deemed equivalent by the Chairman of the department.

The subject consists of the options L201, L205 and L208. No option counted towards AL02 Philosophy II, AL03 Philosophy IIIA or AL13 Philosophy IIIB may count as a course for AL22 Logic II.

This subject may not be available in future years, subject to the availability of staff.

THIRD YEAR.

The Department of Philosophy offers term-long options, each normally two lectures and one tutorial a week, and term-long seminars. Any student takes a third-year subject by taking one option in each term and a seminar (or equivalent written project) in one of the terms. Options count equally towards assessment for the subject. The seminar (or equivalent written project) is half the value of an option. The subject is completed in one year and is not normally available to students with exemption from lectures.

A student may take both AL03 Philosophy IIIA and AL13 Philosophy IIIB. No student enrolls in IIIB unless he has passed IIIA or is currently undertaking it. No option or seminar or project may count towards both IIIA and IIIB.

Options are selected from the list offered for Second Year. No option counted towards AL02 Philosophy II, AL22 Logic II or AL23 Logic III may count towards IIIA or IIIB. Where an option overlaps significantly with an option given in earlier years only one of them may count towards any subject in philosophy. Students should consult the Department if in doubt about option overlap. Students taking AL02 Philosophy II options as part of IIIA or IIIB will be required to undertake additional study relating to the material of the subject.

Options may have a special pre-requisite stated in their description.

Seminars meet weekly for 1½ hours.

The subjects offered are:

AL03 Philosophy IIIA.

Pre-requisite: AL02 Philosophy II or AL22 Logic II.

One option each term plus one seminar. The subject is completed in one year.

AL13 Philosophy IIIB.

Pre-requisite: As for AL03 Philosophy IIIA.

For students who have passed AL03 Philosophy IIIA or who enrol concurrently for AL03 Philosophy IIIA.

Three options not presented for AL03 Philosophy IIIA or any other subject given by the Department of Philosophy and one seminar not otherwise presented. The subject is completed in one year.

This subject may not be available in future years, subject to the availability of staff.

AL23 Logic III.

Pre-requisite:

(a) As for AL22 Logic II and

(b) AL02 Philosophy II or a second-year Mathematical Sciences subject.

The options are as for AL22 Logic II, but students taking these courses as AL23 Logic III will be required to undertake additional study relating to the material of the courses.

This subject may not be available in future years, subject to the availability of staff.

AL4H Philosophy IIIH.

Pre-requisite: As for AL03 Philosophy IIIA.

This half-subject is available for students who wish to take it together with SJ3H Social Biology IIIH. Intending students should consult the Chairman of the Department.

HONOURS DEGREE.**AL99 Honours Philosophy.**

Pre-requisite subjects: AL01 Philosophy I (before 1974), AL02 Philosophy II and AL03 Philosophy IIIA, with a credit or distinction in either AL03 Philosophy IIIA or AL13 Philosophy IIIB.

There is no logic pre-requisite for the Honours year, but Honours courses frequently require a knowledge of logic to at least the level of the first year course. Prospective Honours students are advised to take AL2H Logic IH. The Department does not guarantee to provide sufficient Honours courses without such pre-requisites to enable the Honours year to be completed by these alone.

Courses and texts will be decided at the beginning of each year. Prospective Honours students should consult with the Chairman of the Department before the end of January.

PHYSICS.**(FOR THE DEGREE OF BACHELOR OF ARTS)****SP9H Physics, Man and Society IH.**

This half-subject, given by members of the Departments of Physics and Mathematical Physics, is intended primarily for students of the humanities and social sciences.

The course is an Arts half-subject and is therefore available in the following faculties: Agricultural Science, Arts, Economics, Mathematical Sciences, Music and Science. It is not available as a Science half-subject and only one of SP01 Physics I and SP9H Physics, Man and Society IH can be counted to any degree.

The course is non-mathematical in character and no previous knowledge of physics is assumed. It is designed to provide an understanding of some of the principal currents of thought in physics and of the scientific background to some of the philosophical, political and social issues that confront society. The course will consist of a limited number of topics which will be developed in lectures, tutorials, reading assignments and essays. There will be an average of one lecture a week and a tutorial every second week throughout the year. There will be no formal laboratory work.

At least three distinct topics will be offered each year. Each topic occupies one term and the half-subject comprises three topics to be selected from the following.

A. THE IMPACT OF PHYSICS.

The topic will discuss the nature and status of some of the great discoveries of physics. Particular attention will be paid to the question of how the ideas of physics have or have not passed into the current of human thought and as to how those ideas have influenced man's interpretation and understanding of himself, both as an individual and as a member of society.

B. MATTER AND ANTI-MATTER.

The fundamental constituents of matter, the elementary particles and their anti-particles, will be studied, with emphasis on the basic symmetry principles and consequent conservation laws. The social and political implications of the funding of expensive scientific projects, such as accelerators to study the elementary particles, will be discussed.

C. LIGHT—WAVES OR PARTICLES?

The conflict between wave and corpuscular theories of light. How these theories developed from early ideas about light and seeing and gave rise to continuing controversy among scientists. Present day interpretations of this conflict in terms of quantum mechanics.

D. PEOPLE AND ENERGY.

An introduction will be given to the physical concept of energy and the consequences of the increasing use of energy by man. The rapid depletion of fossil fuel reserves, the problems associated with the use of fossil and nuclear fuels, and the solar alternative, will be discussed.

E. SPACE, TIME AND RELATIVITY.

The contributions of Galileo, Newton, Einstein and others to our understanding of space, time and motion. Cosmology.

F. THE REALM OF THE ATOM.

An introduction to the basic ideas of quantum theory. Topics to be discussed include the particle and wave aspects of light and matter, the indeterminacy relations, quantisation, the probabilistic nature of the fundamental laws and some philosophical positions concerning the nature of man's knowledge of the atomic world.

G. THE SEA AND THE SKY.

Origin and composition of the atmosphere and the oceans. Elementary meteorology. Solar radiation and its interaction with the atmosphere. The origins of life. Man's interaction with the atmosphere and the oceans. The possibility of extra-terrestrial life.

Further information and reading lists may be obtained from the Departments.

For syllabuses of SP01 Physics I, SP02 Physics II and SP03 Physics III see under the degree of B.Sc. in the Faculty of Science.

POLITICS.

There are six subjects in Politics: AP11 Politics IA, AP21 Politics IB, AP32 Politics IIA, AP42 Politics IIB, AP03 Politics IIIA and AP13 Politics IIIB. There is an additional half-subject AP1H Political Sociology IIH which is only available to students taking the half-subject SJ3H Social Biology IIH.

Students in all full subjects in Politics may select one from a number of available options for each subject. No student may present the same or a similar option for more than one course either at the same or at a different level.

The options in Politics listed below will only be offered as staff and enrolments permit either in 1981 or in later years. Quotas may be imposed in some options.

Where the same options are offered at more than one level, either at first and second year or at second and third year level, students undertaking such options at the higher level will be required to undertake additional work in those options.

Essays, written exercises and projects will be the basis of part and, in some options, the whole of the year's assessment. The lists of recommended books are not exhaustive, but are offered as suggested references. Further extended reading lists, details of assessment methods and course guides will be available from the Politics Department early in 1981.

OPTIONS FOR 1981.**First Year.**

- P701 POLITICS AND POLITICAL ECONOMY.
- P702 POLITICAL DEVELOPMENT IN AUSTRALIA.
- P703 POLITICAL SOCIOLOGY.
- P711 HISTORY OF POLITICAL THOUGHT.
- P712 LIBERAL DEMOCRACY IN AUSTRALIA.

Second Year.

- P702 POLITICAL DEVELOPMENT IN AUSTRALIA.
- P703 POLITICAL SOCIOLOGY.
- P704 THIRD WORLD POLITICAL ECONOMY.
- P705 CHINESE POLITICS.
- P706 MARXISM-LENINISM.
- P707 PUBLIC POLICY IN AUSTRALIA.*
- P708 SOCIOLOGY OF POWER.*
- P709 INTERNATIONAL POLITICS.
- P710 CONTEMPORARY SOCIAL THEORY.*
- P711 HISTORY OF POLITICAL THOUGHT.
- P712 LIBERAL DEMOCRACY IN AUSTRALIA.

Third Year.

- P704 THIRD WORLD POLITICAL ECONOMY.
- P705 CHINESE POLITICS.
- P706 MARXISM-LENINISM.
- P707 PUBLIC POLICY IN AUSTRALIA.*
- P708 SOCIOLOGY OF POWER.*
- P709 INTERNATIONAL POLITICS.
- P710 CONTEMPORARY SOCIAL THEORY.*
- P713 MODERN POLITICAL THOUGHT.
- P714 STATE, SOCIETY AND POLITICAL REGIMES: A COMPARATIVE
POLITICAL ECONOMY.

*These options will not be available in 1981.

FIRST YEAR.

The following first-year options will be offered, as staff and enrolments allow, and subject to such quotas as may be imposed:

- P701 POLITICS AND POLITICAL ECONOMY.

No pre-requisites. First-year level only.

In the modern world, political and economic questions dominate government and international policy. Behind the outward workings of parliament, cabinet and political parties lie deeper processes: the growth and operation of large corporations on a global scale, inflation and unemployment, revolution in agricultural techniques (side-by-side with growing landlessness) and the continuing poverty of most of mankind. At the same time the growth of centralised planning in communist countries and of certain security police organisations in the West pose the old questions of freedom, liberty, the role of the State etc.

Politics and Political Economy is a self-contained course which examines all of these issues at a practical as well as theoretical level. It gives an introduction to concepts in political theory and political economy, but more important, applies them to modern industrial societies like the U.S.A. and Australia, and to the "Third World" of Asia and some of the communist states. The subject is a useful lead-in to the second year and third year courses P709 International Politics, P704 Third World Political Economy and P714 State, Society and Political Regimes. However, a person who wished to do only one subject in the area of politics, will find P701 Politics and Political Economy comprehensive. No previous knowledge of politics or political economy is assumed.

Introductory reading:

Dalton, G., *Economic systems and society* (Penguin).

Wheelwright, E. L. (ed.), *Political economy of development* (Australian Broadcasting Commission).

Textbooks:

Wheelwright, E. L., *Capitalism, socialism or barbarism: The Australian predicament* (ANZ Books).

Crough, G., and others (eds.), *Australia and world capitalism* (Pelican).

Heilbroner, R. L., *The Worldly Philosophers* (Simon and Schuster).

Useful books:

Shoup, L., *The Carter presidency and beyond* (Ramparts Press).

McFarlane, B., (ed.), *A political economy of S.E. Asia in the 1980's* (Veriken Publ.).

Francisco, L., and McFarlane, B., *Philippine society under change* (Foundation for National Studies, Manila).

Flanagan, P. (ed.), *Big brother or democracy?* (Department of Continuing Education, The University of Adelaide).

Dobb, M., *Capitalism, yesterday and today* (Lawrence and Wishart).

Chomsky, N., and Herman, E. S., *After the cataclysm: the political economy of human rights*, Vol. 2 (South End Press).

Wheelwright, E. L., and McFarlane, B., *The Chinese road to socialism* (Penguin or Monthly Review Press).

Brugger, W. (ed.), *China since the cultural revolution* (Croom Helm).

Nove, A., *An economic history of the USSR* (Penguin).

Churchward, L. G., *Contemporary Soviet government* (Routledge and Kegan Paul).

Students are advised to consult back issues of *Journal of Contemporary Asia* which specialises in contemporary social, political and economic questions of Asia and the Western world's relationships with Asia. Current issues of *Journal of Contemporary Asia* may also be purchased from the Politics Department Office, University of Adelaide.

P702 POLITICAL DEVELOPMENT IN AUSTRALIA.

No pre-requisites. Available to students with exemption from lectures, subject to the approval of the Chairman of the Politics Department.

This course will undertake a study of political development in Australia since 1890. Although primary emphasis will be given to national government and politics, attention will also be directed to significant features at the state level.

Some recommended books:

- *Alexander, F., *Australia since federation*, 3rd edition (Nelson).
- *Blewett, N., and Jaensch, D. H., *Playford to Dunstan* (Cheshire).
- *Clark, C. M. H., *A short history of Australia*, 2nd edition (Heinemann).
- *Crisp, L. F., *Australian national government*, 3rd edition (Longman).
- *Crowley, F. K. (ed.), *A new history of Australia* (Heinemann).
- *Encel, S., *Cabinet government in Australia* (Melbourne U.P.).
- *Lloyd, C. J., and Reid, G. S., *Out of the wilderness* (Cassell).

*Denotes paperback edition.

P703 POLITICAL SOCIOLOGY.

No pre-requisites. Available to students with exemption from lectures subject to the approval of the Chairman of the Department.

This introductory course will examine theoretical and empirical approaches to the political aspects of sociology and will consider the contribution of both classical and modern sociologists. It will examine the nature of sociology and sociological method and the various concepts of social order.

The empirical part of the course will include the study of political socialisation, social class, and selected social and political institutions. Case studies will be drawn from Australian and overseas sources, particularly from Europe and North America.

Books recommended for purchase:

- Thompson, K., and Tunstall, J. (eds.), *Sociological perspectives* (Penguin).
- Worsley, P., and others, *Introducing sociology*, 2nd edition (Penguin).
- Worsley, P., and others, *Modern sociology: introductory readings* (Penguin).
- Worsley, P., and others, *Problems of modern society* (Penguin).

P711 HISTORY OF POLITICAL THOUGHT.

No pre-requisite. Not available to students with exemption from lectures.

This course will examine the recurring ideas and problems in Western political thought from the Greek schools to the nineteenth century. The primary emphasis of the course will be the reading and critical analysis of original texts from the ancient, medieval and modern periods.

In addition to the following primary texts, supplementary reading lists will provide the student with titles of general historical works and other secondary literature.

Primary texts:

- *Plato, *The republic* (O.U.P.) and *Gorgias* (Penguin).
- *Aristotle, *Nicomachean ethics* (Penguin) and *The politics* (Penguin).
- *Augustine, Saint, *Confessions* (Penguin).
- Aquinas, Thomas, Saint, *Selected political writings* (Blackwell).
- *Machiavelli, N., *The prince* (Penguin).
- *Hobbes, T., *Leviathan* (Penguin).
- *Locke, J., *Two treatises of civil government* (Dent).
- *Rousseau, J. J., *The social contract and the discourses* (Dent).
- *Hegel, G. W. F., *Philosophy of right* (O.U.P.).
- *Burke, E., *Reflections on the revolution in France* (Penguin).
- *Paine, T., *Rights of man* (Penguin).
- Bentham, J., *Introduction to the principles of morals and legislation* (Blackwell).
- Mill, J. S. *Utilitarianism, liberty, and representative government* (Dent).

*Denotes paperback edition.

P712 LIBERAL DEMOCRACY IN AUSTRALIA.

No pre-requisites. Available to students with exemption from lectures subject to the approval of the Chairman of the Department.

This course is an introduction to Australian politics. It will examine the institutional structure of the Australian political system, the relationship of that system to its socio-economic environment through the political parties and pressure groups and the theory and practice of liberal and social democracy in Australia.

Useful References:

- Strachey, E. J. S., *The challenge of democracy* (Encounter).
Aitkin, D., and Jinks, B., *Australian political institutions* (Pitman).
Crisp, L. F., *Australian national government*, 4th edition (Longman).
Mayer, H., and Nelson, H. (eds.), *Australian politics: a fifth reader* (Cheshire).
Emy, H. V., *Politics of Australian democracy*, 2nd edition (Macmillan).

The subjects offered in first year are:

AP11 Politics IA.

No pre-requisite: Some first-year options will be available to students with exemption from lectures with the approval of the Chairman of the Department.

AP21 Politics IB.

Pre-requisite: Pass in AP01 Politics I or in AP11 Politics IA or concurrent enrolment in AP11 Politics IA. Some first-year options will be available to students with exemption from lectures with the approval of the Chairman of the Department.

SECOND YEAR.

The following second-year options will be offered, as staff and enrolments allow, and subject to such quotas as may be imposed:

P702 POLITICAL DEVELOPMENT IN AUSTRALIA.

Pre-requisite: Pass in any Politics subject or in the option Australian History. Not available to those who have passed the former option Australian Politics. Available to students with exemption from lectures with the approval of the Chairman of the Department.

P703 POLITICAL SOCIOLOGY.

Pre-requisite: Pass in any Politics or History subject or EE71 Social Economics or AJ2H Human Geography IH or AA01 Anthropology I or AY01 Psychology I or AL01 Philosophy I or AL1H Philosophy IH(A) and AL3H Philosophy IH(B) or AL2H Logic IH. Available to students with exemption from lectures with the approval of the Chairman of the Department.

P704 THIRD WORLD POLITICAL ECONOMY (offered subject to availability of staff).

Pre-requisites: Pass in one of the following. P701 Introduction to Politics and Political Economy, P705 Chinese Politics, H102 Old Societies and New States, H702 Modern and Contemporary History of China and Japan, H710 Indian History, AA01 Anthropology I, AA02 Anthropology IIA, AQ42 Asian Civilisations: Past and Present II, J727 South and South-East Asia, or any other subject acceptable to the Chairman of the Department.

Problems in the study of South and South-East Asia: Under the impact of a number of critical approaches to the study of the third world, many of the fundamental assumptions and interpretations of recent scholarship have been called into question. Several of these debates have emerged in relation to studies of South and South-east Asia, in part at least, because of the comparative wealth of monographic material which exists for these regions. The principal objective of this course will be to consider a number of important political, historical, economic and anthropological studies of South and South-east Asia from the

standpoint of political economy. Among the historical issues to be considered will be the penetration of traditional social forms by colonialism, the impact of industrial agriculture on rural social relations, the role of colonial violence, forms of peasant political action such as banditry and millenarianism, as well as agrarian revolt. Among the issues of contemporary politics to be considered will be the emergence of peasant revolutionary movements, the political economy of the Green Revolution, policies of population control, land reform, multi-national corporations and military regimes. Insofar as possible, we will canvass the present state of work in each area and consider the directions in which future research might most profitably be directed.

Preliminary reading:

- Blackburn, R., *Explosion in a subcontinent* (Pelican).
 Gough, K., and Sharma, H. P., *Imperialism and revolution in South Asia* (Monthly Review).
 Hardgrave, R. L., *India* (Harcourt, Brace).
 Hart, H. C., *Indira Gandhi's India* (Westview).
 Smith, V. A., *Oxford History of India* (Clarendon).

P705 CHINESE POLITICS.

The course P705 Chinese Politics, available at second or third-year level, is offered jointly by the Centre for Asian Studies and the Department of Politics.

Pre-requisite: Pass in any Politics subject, or in H102 Old Societies and New States, or in AQ01 Chinese I. Available to students with exemption from lectures in special circumstances with the approval of the Chairmen of the Centre for Asian Studies and the Department of Politics.

This course will examine the origins, nature and consequences of the Chinese revolution in the 20th century with emphasis on the state of political, economic and social life in China since 1949. It will include an analysis of the thought of Mao Zedong with special reference to its impact on the communist-led revolution in China.

Preliminary reading:

- Snow, E., *Red Star Over China* (Gollancz).
 Mao Zedong, *On new democracy; On the People's Democratic Dictatorship; On the correct handling of contradictions among the people; in Selected Works*, 5 vols., (Foreign Languages Press, Beijing).
 Schram, S., *Mao Tse-tung* (Penguin).
 Townsend, J., *Politics in China* (Little, Brown).

Required textbooks for the whole course:

- Schurmann, F., *Ideology and Organization in Communist China*. (University of California Press).
 Brugger, B., *Contemporary China*, 2 vols. (Croom Helm).

P706 MARXISM-LENINISM.

Pre-requisites: Pass in any first-year Politics subject, but not available to students who passed the former option Social and Political Theory. Available to students with exemption from lectures.

This course involves a study of Marxism with particular emphasis on the writing of Marx and later Marxists.

Preliminary reading:

- Marx, K., and Engels, F., *Selected works*, 2 vols. (Foreign Languages P.H.).
Marx and beyond (Australian Broadcasting Commission).
 *Lichtheim, G., *A short history of socialism* (Weidenfeld and Nicolson).
 *Lichtheim, G., *Marxism* (Routledge).

P707 PUBLIC POLICY IN AUSTRALIA (not available in 1981).

Pre-requisites: Pass in AP11 Politics IA. Not available to students with exemption from lectures.

This course will examine the policies of government in Australia, particularly the federal government. It will investigate the origins and content of these policies, the mechanisms through which they are implemented and the obstacles to their fulfilment. This study will be focused upon the arena of federal politics—government, political parties, the public service—but it will be located within the wider social environment of business, trade unions, state governments, the international economy, lobbyists and the press. Contemporary political processes will be placed within their historical, social and institutional environment. Students will be expected to follow current political developments as reported in the daily and weekly press and official publications.

Introductory reading:

Wheelwright, E. L., and Buckley, K. (eds.), *Essays in the political economy of Australian capitalism*, 3 vols. (A.N.Z.).

P708 SOCIOLOGY OF POWER (not available in 1981).

Pre-requisites: Pass in the option P703 Political Sociology or in any of the subjects listed as pre-requisites for P703 Political Sociology. Available to students with exemption from lectures only in special circumstances with the approval of the Chairman of the Department.

This is an advanced course in political sociology in which the concept of power will be examined and applied in selected empirical contexts.

Some recommended books:

Castles, F. G., (and others), *Decisions, organisations and society* (Penguin).

Lukes, S., *Power: a radical view* (Macmillan).

Olsen, M. E., *Power in societies* (Macmillan).

P709 INTERNATIONAL POLITICS: THE COLD WAR, AUSTRALIA AND ASIA.

Pre-requisites: Pass in any first year Politics subject, or the History option: H706 War and Peace: Britain and Germany 1870–1945, or any other subject acceptable to the Chairman of the Department. Not available to students with exemption from lectures.

The central focus of this course will be the international politics of the Asia-Pacific region during the period following the Second World War to the 1980s. It will deal with imperialism, decolonisation, revolution, diplomacy, war and the new international economic order. It will be divided into three sections each corresponding roughly to one term's study.

1. The Cold War from post-war reconstruction to American decline.

Preliminary reading:

Horowitz, D., *From Yalta to Vietnam* (Penguin).

Kolko, J., and G., *The limits of power* (Harper and Row).

2. From colonialism to the new international economic order in the Asian-Pacific region.

Preliminary reading:

Buchanan, K., *The southeast Asian world* (Bell).

Halliday, J., and McCormack, G., *Japanese imperialism today* (Penguin).

Brugger, W., *Contemporary China* (Croom Helm).

Students will be asked to consult *The journal of contemporary Asia* during this section.

3. Australia's role in international politics. Stress will be placed in this section on the inter-relationship between the development of Australian political economy and foreign policy and changes in the international environment.

Preliminary reading from:

E. Wheelwright and K. Buckley (eds.), *Essays in the political economy of Australian capitalism*, vols. 1, 2 and 4 (A.N.Z.).

P710 CONTEMPORARY SOCIAL THEORY (not available in 1981).

Pre-requisites: Any other Politics subject, AL1H Philosophy IH(A), AL3H Philosophy IH(B), AL02 Philosophy II. Not available to students with exemption from lectures.

Any theory of society presupposes a theory of human nature. Conversely, any theory of human nature presupposes a theory of society.

The respective writings of Sigmund Freud, Jean-Paul Sartre and Noam Chomsky represent three of the most important attempts to treat the issues involved, since Marx. The questions raised and answers proposed by Psycho-Analysis, Sartrean Existentialism and Chomsky's "Biological Libertarianism" are of profound importance for any serious student of society.

The *primary* purpose of the course is to introduce students to the thought of Freud, Sartre and Chomsky in some systematic, critical detail. However, the compatibility of the three intellectual approaches will also be explored; and in addition, time permitting, their relations to such other traditions as Marxism and Feminism.

Assessment: The standard form of assessment will consist of three essays, each approximately 5,000 words (Third Year level) and 4,000 (Second Year level). Alternative forms of assessment will be available.

Preliminary reading:

Freud:

The interpretation of dreams (Penguin or Allen and Unwin).
Three essays on the theory of sexuality (Imago).
Introductory lectures on psycho-analysis (Allen and Unwin).
New introductory lectures on psycho-analysis (Woolf or Norton paperback).
Civilization and its discontents (Penguin or Hogarth Press).

Sartre:

Being and nothingness (Methuen).
Saint Genet: actor and martyr (New American Library (Plume) paperback).
Search for a method (Random); also entitled *The problem of method* (Methuen).
Between existentialism and Marxism (New Left Books).

Chomsky:

Problems of knowledge and freedom (Barrie and Jenkins).
For reasons of State (Fontana).
Reflections on language (Temple Smith).
Language and mind (Harcourt, Brace).

A *detailed* course reading guide, along with other course details, will be available from the Politics Department before First Term.

P711 HISTORY OF POLITICAL THOUGHT.

Pre-requisite: Pass in any full first-year subject in Arts, Law or Science. Not available to students with exemption from lectures.

P712 LIBERAL DEMOCRACY IN AUSTRALIA.

Pre-requisite: Pass in any first-year Politics subject other than the former option Australian Politics. Available to students with exemption from lectures with the approval of the Chairman of the Department.

The subjects offered in second year are:

AP32 Politics IIA.

Pre-requisites: Pass in AP01 Politics I *or* AP11 Politics IA *or* AP21 Politics IB except where special pre-requisites for particular options are cited above. In certain cases alternative pre-requisites may be accepted.

AP42 Politics IIB.

Pre-requisites: Pass or concurrent enrolment in AP32 Politics IIA, but certain special pre-requisites are required in some options as set out above under AP32 Politics IIA. In some cases alternative pre-requisites may be accepted by the Chairman of the Department. Some second-year options are available to students with exemption from lectures with the approval of the Chairman of the Department.

THIRD YEAR.

The following third-year options will be offered, as staff and enrolments allow, and subject to such quotas as may be imposed:

P704 THIRD WORLD POLITICAL ECONOMY.

Pre-requisites: Pass in one of the following: P705 Chinese Politics, H102 Old Societies and New States and a second-year subject, H702 Modern and Contemporary History of China and Japan, H710 Indian History, AA02 Anthropology IIA, AQ12 Asian Development II.

Not available to students with exemption from lectures.

P705 CHINESE POLITICS.

Pre-requisites: Pass in any second-year Politics subject, or in H702 Modern and Contemporary History of China and Japan, or in AQ42 Asian Civilisations: Past and Present II. Only available to students with exemption from lectures in special circumstances with the approval of the Chairman of the Department of Politics and the Chairman of the Centre for Asian Studies.

P706 MARXISM-LENINISM.

Pre-requisite: Pass in any second-year Politics subject. Available to students with exemption from lectures.

P707 PUBLIC POLICY IN AUSTRALIA (not available in 1981).

Pre-requisites: Pass in AP32 Politics IIA *or* the History option: H709 Australia: Outpost of Empire in the Antipodes.

Not available to students with exemption from lectures.

P708 SOCIOLOGY OF POWER (not available in 1981).

Pre-requisites: Pass in a second-year Politics subject and if the option P703 Political Sociology has not been passed, a pass in one of the following: AY01 Psychology I, AY02 Psychology II, AA01 Anthropology I, AA02 Anthropology II, AJ6H Social Geography IIA, AJ1H Human Geography III, AL02 Philosophy II. Only available to students with exemption from lectures in special circumstances with the approval of the Chairman of the Department.

P709 INTERNATIONAL POLITICS.

Pre-requisites: Pass in any second year Politics subject or AH02 History II (Option: H704 War and Peace: Britain, Germany and the Great War, 1890's-1930's) or any other subject acceptable to the Chairman of the Department.

P710 CONTEMPORARY SOCIAL THEORY (not available in 1981).

Pre-requisites: Pass in any second or third-year Politics subject, or AL02 Philosophy II, or, the History option: H712 Social and Political Ideas Since the Seventeenth Century. Not available to students with exemption from lectures.

P713 MODERN POLITICAL THOUGHT.

Pre-requisites: Pass in any second or third-year Politics subject, or AL02 Philosophy II, or, the History option: H712 Social and Political Ideas Since the Seventeenth Century.

Not available to students with exemption from lectures.

This course is concerned with a study of the political thought of the eighteenth, nineteenth and twentieth centuries. The aim will be to trace the growth and influence of ideas that are of importance to the modern world. This will be done through a study of the key thinkers of each period. The course is designed as a seminar course, with primary emphasis being placed on the presentation of seminar papers. These will be used as the basis for course assessment. There will be three seminars, one each term, and each student will be expected to present a paper in each seminar. The three seminars will be the Political Thought of the Enlightenment; Utilitarians, Liberals and Utopian Socialists—the 19th Century; and Politics and Literature in the 20th Century. A quota may be imposed in this course.

Preliminary reading:

- Sampson, R. V., *Progress in the Age of Reason* (Heinemann).
- *Hazard, P., *European thought in the eighteenth century* (Yale U.P.).
- *Willey, B., *The eighteenth century background* (Chatto and Windus).
- *Hampson, N., *The enlightenment* (Penguin).
- *Manuel, F. E., *The prophets of Paris* (Harper and Row).
- *Brinton, C. C., *English political thought in the 19th century* (Benn).
- *Bowe, J., *Politics and opinion in the 19th century* (Cape).
- *Woodcock, G., *Anarchism* (Penguin).
- *Lichtheim, G., *The origins of socialism* (Weidenfeld and Nicolson).
- *Burns, E. M., *Ideas in conflict* (Norton).
- Downton, J. V., and Hart, D. K., *Perspectives on political philosophy, Vol. III: Marx through Marcuse* (Holt, Rinehart and Winston).
- *Williams, R., *Culture and society 1780–1950* (Chatto and Windus).
- *Roszak, T., *The making of a counter culture* (Faber).
- Anderson, P., *Considerations on western Marxism* (New Left Books).

P714 STATE, SOCIETY AND POLITICAL REGIMES: A COMPARATIVE POLITICAL ECONOMY.

Pre-requisites: Pass in any second year Politics subject or any other subject acceptable to the Chairman of the Department.

This course has a comparative emphasis. It will cover three major areas:

- (1) advanced industrial societies
- (2) state socialist countries of East Europe and Asia
- (3) third world countries

It will analyse the distinctive character of these different societies, the classes that exist in them, the relationship between class and the state, the nature of the political system and the relationship between politics and economies.

Preliminary reading:

- Miliband, R., *The state in capitalist society* (Weidenfeld and Nicolson).
- Moore, B., *Social origins of dictatorship and democracy* (Penguin).
- Halliday, J., *A political history of Japanese capitalism* (Pantheon).
- Gough, K., and Sharma, H. P. (eds.), *Imperialism and revolution in south Asia* (Monthly Review).
- Dalton, G., *Economic systems and society: capitalism, communism and the Third World* (Penguin).

The subjects offered in third year are:

AP03 Politics IIIA.

Pre-requisites: As set out in the options listed above. In special cases, alternative pre-requisites may be accepted by the Chairman of the Department. Some options may be available to students with exemption from lectures with the approval of the Chairman of the Department.

One of the third-year options not already passed or currently being taken in another Politics subject.

AP13 Politics IIIB.

Pre-requisites: Pass or concurrent enrolment in AP03 Politics IIIA, but certain special pre-requisites are required in some options as set out above under AP03 Politics IIIA. Some options may be available to students with exemption from lectures with the approval of the Chairman of the Department.

One of the third-year options not already passed or currently being taken in another Politics subject.

AP1H Political Sociology IIIB.

This half-subject will only be available to students taking the half-subject SJ3H Social Biology IIIB. Topics will include: sociological method, socialisation, social stratification, authoritarianism, deviance, urbanisation, industrialisation. Not available to students who have previously taken the option Political Sociology.

Recommended reading:

- *Worsley, P., and others, *Introductory sociology*, 2nd edition (Penguin).
- *Worsley, P., and others, *Modern sociology* (Penguin).
- *Worsley, P., and others, *Problems of modern society* (Penguin).

HONOURS DEGREE.

AP99 Honours Politics.

Students wishing to take Honours in Politics should consult the Chairman of the Department before beginning the third year's work. Admission to the final year Honours course is subject to the express approval of the Chairman.

Students admitted to the final-year Honours course are first required:

- (a) to have passed in AP03 Politics IIIA and three other courses in Politics. Note that in special circumstances, such as the completion of a range of appropriate cognate subjects, this requirement may be modified by the Chairman;
- (b) to have reached a satisfactory standard in their work in the first three years of their course.

PSYCHOLOGY.

There are three subjects and two half-subjects in Psychology for the Ordinary degree of Bachelor of Arts: AY01 Psychology I, AY02 Psychology II, AY23 Psychology III, AY1H Psychology IIIH(A), and AY2II Psychology IIIH(B).

AY01 Psychology I.

This course provides a survey of the main fields of modern experimental psychology, and qualifies the student to take further psychology subjects. The topics covered are learning, perception, physiological psychology, personality, social psychology, thinking and language, elementary descriptive and inferential statistics.

The course is made up of three lectures, one tutorial and a one hour laboratory assignment each week. In addition students are required to spend periods not exceeding a total of five hours in the year as participants in psychological experiments.

Preliminary and parallel reading:

McConnell, J., *Understanding human behavior*, 2nd edition (Holt, Rinehart and Winston); *OR*

Zimbardo, P. G., *Psychology and life*, 10th edition (Scott, Foresman).

Millenson, J. R., and Leslie, J. C., *Principles of behavioral analysis*, 2nd edition (Macmillan).

Approximately 20 *Scientific American* off-prints will be recommended in lectures during the year.

AY02 Psychology II.

Pre-requisite subject: AY01 Psychology I at Division I standard or higher.

The course comprises: (i) Theory: three lectures and one tutorial a week; (ii) Laboratory: an average of two hours a week for about 18 weeks spread throughout Terms I, II, and III; (iii) Demonstrations, films, and visits to institutions at times when no practical work is scheduled.

The course is oriented towards the controlled study of human and animal behaviour, both individual and social, and is concerned also with possibilities for the wider application of contemporary psychological theories.

Reference books: Students are expected to retain AY01 Psychology I text-books.

Reference will also be made to a number of texts. Full information will be available at the preliminary meeting of the class.

THIRD-YEAR SUBJECTS IN PSYCHOLOGY.

Pre-requisite subject: AY02 Psychology II.

Third-year Psychology is organised on a unit system. The optional single units are arranged in three groups (A, B, and C). There is, in addition, the compulsory double unit Y791 Methodology, Practical Work and Statistics. Each optional single unit consists of 12 lectures and 6 tutorials, and is assessed either by a three-hour written examination or by an essay. Part of the double unit, Y791, consists of 36 hours of class work in Methodology and Statistics, made up of lectures, workshops and tutorials. This part will be assessed by a three-hour examination, for which half of the marks for the unit will be available. The other part of the unit, Practical Work, will be assessed on the basis of reports (each of about 3000 words in length) of work in three practicals to be selected from the range of exercises offered each year.

Units will be offered, as staff and enrolments allow, from among the following:

Group A: Personality and Social Psychology.

Y780 PERSONALITY.

Y782 SOCIAL PSYCHOLOGY.

Y783 THE PHILOSOPHY AND PSYCHOLOGY OF CONSCIOUSNESS.

Group B: Human Performance.

- Y784 HUMAN DECISION PROCESSES.
- Y785 APPLIED EXPERIMENTAL PSYCHOLOGY.
- Y786 ENVIRONMENTAL PSYCHOLOGY.

Group C: Comparative, Motivational and Physiological Psychology.

- Y787 PHYSIOLOGICAL PSYCHOLOGY.
- Y788 MOTIVATION.
- Y789 ANIMAL BEHAVIOUR.
- Y790 FRUSTRATION AND LEARNED HELPLESSNESS.

Compulsory Double Unit.

- Y791 METHODOLOGY, PRACTICAL WORK AND STATISTICS.

Units within Groups A, B and C are subject to amendment. Full details of the units to be offered within the Groups in 1981 and the syllabuses of the offered units will be available from the Department early in 1981.

Units are combined to form the subject AY23 Psychology III or the half-subjects AY1H Psychology IIIH(A) and AY2H Psychology IIIH(B). A Psychology double unit for a Science IIIH subject may be the proposed double unit, but any other two single units will be available. In such a case, some practical work would be required which would be determined in consultation with the Chairman of the major department.

Either AY23 Psychology III or both AY1H Psychology IIIH(A) and AY2H Psychology IIIH (B) may be offered as pre-requisite subjects for Honours Psychology and for the Diploma in Applied Psychology.

AY23 Psychology III.

This subject consists of four single units and a double unit. One single unit must come from each of Groups A, B and C. The fourth unit may come from any of the three Groups. The Compulsory double unit Y791 completes the subject.

AY1H Psychology IIIH(A).

This subject consists of the Compulsory double unit Y791 and one other unit.

AY2H Psychology IIIH(B).

This half subject is available only to students who have made satisfactory progress in AY1H Psychology IIIH(A) and consists of three further single units which, taken along with those already completed for Psychology IIIH(A), conform to the pattern required for Psychology III.

HONOURS DEGREE.

AY99 Honours Psychology (B.A.).

Pre-requisite subjects: AY01 Psychology I, AY02 Psychology II, and *either* AY23 Psychology III *or* both AY1H Psychology IIIH(A) and AY2H Psychology IIIH(B), including a pass in the unit Y774 Psychological Statistics (before 1981).

Candidates are required to give their full attendance for an entire academic year to a special course of study in the psychological laboratory. The course will include lectures and discussions on advanced topics. It will also involve the writing of a substantial essay and the presentation of a dissertation embodying the results of, and a survey of the literature relevant to, a research investigation carried out under the supervision of a member of the staff of the Department.

SOCIAL BIOLOGY.**(FOR THE DEGREE OF BACHELOR OF ARTS)****SJ3H Social Biology IIIH.**

(To be offered in 1981 subject to availability of staff.)

The formal pre-requisites are SJ7H Genetics and Human Variation IIIH or SJ02 Genetics II and a knowledge of statistics which may be obtained through QT7H Statistics IH or AY02 Psychology II or SJ02 Genetics II or an acceptable mathematical subject. But as the course is intended to investigate various genetical, physiological and medical models of human attributes and behaviour, and in many cases compare them with socially derived models, a background in areas of both the social and biological sciences will clearly be valuable. Students who have taken second-year subjects in these areas will find the course particularly useful.

SJ3H Social Biology IIIH is a third-year half-subject which can be taken in combination with any of the following third-year half-subjects: AJ8H Geography IIIH, AL4H Philosophy IIIH, AP1H Political Sociology IIIH, AY1H Psychology IIIH(A) and AY2H Psychology IIIH(B).

There will be one lecture and one tutorial each week throughout the year. The course is identical to the double unit J333 Social Biology available to science students but Arts students will be required to complete an appropriate amount of additional reading and assignments.

The course will investigate and compare the past, present and possible future biological and social evolution of man, paying particular attention to the genetic and social variability present in the human species which is the basic raw material of this evolution. The genesis of certain social problems will be discussed and the relevance or otherwise of biology to their understanding and possible alleviation will be examined. The particular social problems to be examined include race and race differences, social stratification, the heritability of intelligence and scholastic ability, social and antisocial behaviours, aspects of eugenics and genetic engineering, and the biosocial consequences of man's changing environment.

Preliminary reading:

Pringle, J. W. S. (ed.), *Biology and the human sciences* (O.U.P.).

Fuller, W. (ed.), *The social impact of modern biology* (Routledge and Kegan Paul).

Berger, P. L., *Invitation to sociology* (Pelican).

Text-books:

Dobzhansky, Th., *Mankind evolving* (Yale U.P.).

Bodmer, W. F., and Cavalli-Sforza, L. L., *Genetics, evolution and man* (Freeman).

Reynolds, V., *The biology of human action* (Freeman).

HONOURS DEGREE.

Subject to the adequacy of existing resources, there will be opportunity for students to undertake studies leading to an Honours degree in which Social Biology will form a component part. Students will normally be in one of the departments which allow Social Biology as a component of one of their subjects and they must satisfy the pre-requisites for the Honours degree of that department. Intending students should consult the Senior Lecturer in Social Biology and the Chairman of the Department concerned.

SERVICE COURSES IN FOREIGN LANGUAGES.

In view of the demand for service courses in foreign languages, particularly from honours and higher degree students, courses are offered by the Language Laboratory (subject to availability of staff) in French and Russian; the course in Science German will continue to be offered by the Department of German Language and Literature.

None of these courses forms part of the formal requirements of any degree or diploma course although in some honours and higher degree courses the Chairman of a department, or a supervisor, may ask a student to enrol for one or more service courses to assist him in acquiring a knowledge of the language concerned.

AS74 Service Course in French.

This course is open to members of staff, research students and honours students. The aim is to ensure fluency in the reading of specialised articles and the ability to translate from French into English.

Students who have no previous knowledge of French will be required to attend a two-week intensive course in February. Those who have studied French for at least three years at school, or done equivalent work, are exempt from this. During first and second term, three hours of class-work are required. After that, students will translate in their own field of specialisation. A student who can translate accurately, with the help of a dictionary, at a rate of 300 words per hour, will be regarded as having passed the course.

Text-books:

For the intensive course:

Monnerie, Annie: *Intercodes*,

(1) *livre de textes*,

(2) *livre d'exercices* (Larousse).

Masselin, J., Delsol, A., Duchaigne, R., *Le Français scientifique et technique*, vols. I and II (Hatier).

Dictionary:

De Vries, B., *A French-English science dictionary* (McGraw-Hill).

AG74 Science German.

For syllabus, see above under "German Language and Literature".

AS84 Service Course in Russian.

This course is open to members of staff, research students and honours students. The aim is to ensure fluency in the reading of specialised articles and the ability to translate from Russian into English.

Students will be required to attend three hours of class-work during first and second term possibly continuing into third term if necessary; after that they will be required to translate articles in their own chosen field of study. A student who can translate accurately, with the help of a dictionary, at a rate of 300 words per hour, will be regarded as having passed the course.

No previous knowledge of the language is required.

Text-book:

Beresford, M., *Complete Russian course for scientists* (O.U.P.).

Note: Details of special dictionaries will be given at the first class meeting.

OF THE

DIPLOMA IN APPLIED PSYCHOLOGY

REGULATIONS

1. There shall be a postgraduate Diploma in Applied Psychology.
2. A candidate for admission to the course for the diploma shall:
 - (a) have qualified for admission to a degree of the University or to a degree of another university accepted for the purpose by the University, and
 - (b) have obtained the approval of the Head of the Department of Psychology.
- 2A. Subject to the approval of the Council, the Faculty may in special cases and subject to such conditions (if any) as it may see fit to impose in each case accept as a candidate for the diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the diploma.
3. To qualify for the diploma a candidate shall satisfactorily complete a course of study extending over at least one year and not longer than shall be prescribed in the schedules approved by the Council.
4. The preliminary work, the course of study to be undertaken and the examinations to be passed, shall be prescribed in the schedules approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
5. A candidate who desires that the examinations which he has passed in the University or elsewhere should be counted *pro tanto* for the Diploma in Applied Psychology, may on written application be granted such exemption from the requirements of these regulations as the Council shall determine.
6. There shall be three classifications of pass at an annual examination in any subject for the diploma: Pass with Distinction, Pass with Credit, and Pass. The names of candidates within each classification shall be arranged in alphabetical order.
7. (a) A candidate who fails to pass the examination in any subject or who fails to complete satisfactorily the prescribed practical work, and who desires to take the subject or practical work again, shall again attend such lectures and satisfactorily do such written and practical work as the professor or lecturer concerned may prescribe, unless specifically exempted therefrom after written application to the Academic Registrar for such exemption.
 - (b) A candidate who has twice failed to pass the examination in any subject or who has twice failed to complete satisfactorily the prescribed practical work, may not enrol for that subject or practical work again except by special permission of the Faculty of Arts to be obtained in writing from the Academic Registrar and then only under such conditions as may be prescribed.
 - (c) For the purpose of this regulation a candidate who is refused permission to sit for examination owing to unsatisfactory attendance or work, or who fails to attend all or part of an annual examination (or supplementary examination if granted) without a reason accepted by the Department of Psychology as adequate, shall be deemed to have failed to pass the examination.
8. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the Diploma in Applied Psychology.

Regulations allowed 17 December, 1970.

Amended: 28 Feb. 1974: 2A; 23 Jan. 1975: 2; 15 Jan. 1976: 4; 23 Dec. 1976: 3, 7.

OF THE
DIPLOMA IN APPLIED PSYCHOLOGY
SCHEDULES

(Made by the Council under regulation 4.)

NOTE: Syllabuses of the subjects for the Diploma in Applied Psychology are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: PRELIMINARY WORK

1. Preliminary work must be completed before commencement of the diploma course of study.
2. A candidate who holds an Honours degree of B.A. or B.Sc. in Psychology, or an Ordinary degree of B.A. or B.Sc. with Psychology as a third-year subject, will satisfy the requirements of this schedule.
3. Any other graduate will satisfy the requirements of this schedule if he satisfies the Chairman of the Department of Psychology that his experience in psychology is equivalent to a three-year university sequence in psychology, and is of a kind which will enable him to understand and profit from the course of study for the diploma. If a graduate does not so satisfy the Chairman of the Department, the preliminary work necessary to satisfy the requirements of this schedule will be prescribed by the Chairman of the Department of Psychology.

SCHEDULE II: COURSE OF STUDY

1. A candidate for the Diploma in Applied Psychology shall regularly attend lectures and seminars, do such written work as may be prescribed and, unless exempted under regulations 5 or 7(a), or by special permission of the Chairman of the Department of Psychology shall within a period of three years from the time of commencement of study pass examinations in:

- (a) AY54 Statistics and Methodology
and any *four* of the following five subjects:
- (b) AY05 Counselling and Psychotherapy
- (c) AY15 Psychological Assessment and Measurement
- (d) AY25 Behaviour Analysis and Modification
- (e) AY35 Applied Social Psychology
- (f) AD35 Educational Psychology IIP.

A candidate may by permission of the Chairman of the Department of Psychology intermit his candidature for a prescribed period.

2. A candidate enrolled in the Diploma before 1976 may present:
 - (g) AY04 Developmental Psychology; *and*
 - (h) AY14 Human Skills.

in lieu of any *one* of the subjects (b) to (f) above.

SCHEDULE III: PRACTICAL WORK

1. A candidate shall complete satisfactorily the prescribed practical work. The practical work will include:

(a) Practical Work:

Practical work in applied psychology for a total of at least one hundred and sixty hours, beginning from the commencement of the diploma course of study.

(b) Research Investigation or Critical Survey:

A written report on either a research investigation or a critical survey on a topic within the field of applied psychology, chosen by himself and approved by the Chairman of the Department of Psychology, to be completed and submitted, except by permission of the Chairman of the Department of Psychology, within six terms from the date of the granting of approval and prepared in accordance with directions given to candidates from time to time.*

*Published in "Notes and Instructions to candidates for Higher Degrees" (*see* Table of Contents).

OF THE

DIPLOMA IN APPLIED PSYCHOLOGY

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

DIPLOMA IN APPLIED PSYCHOLOGY.

The course is intended primarily for graduates of the Faculty of Arts or the Faculty of Science who have either an Honours degree in Psychology or an Ordinary degree with Psychology as a major subject. Graduates who do not have either of these qualifications but who satisfy the Chairman of the Department of Psychology that they have an equivalent standard of attainment in psychology may also be permitted to proceed to the course.

A quota has been imposed on entry to the course, prospective students are therefore advised to make preliminary enquiries of the Chairman of the Department as early as possible and well in advance of the official enrolment period.

The course may be completed in one year of full-time study but may be taken on a part-time basis provided that the courses listed under schedule II are completed within three years from the time of commencement of study and the Research Investigation or Critical Survey is completed within six terms from the date of the granting of approval of the topic. The course includes lectures, demonstrations, seminars and practical work exercises on the subjects of study, listed below together with such additional requirements as may be presented from time to time.

For students attempting the course over two years, subjects 1-4 below are normally examined in the first year of the course. All students should commence the practical work in their first year of enrolment although this will not normally be completed by part-time students in one year.

Assessment of students will be made on the basis of attendance, essays, exercises or tests during the year as well as by examination at the end of the year.

The subjects of study are:

- | | |
|---|--|
| 1. AY05 Counselling and Psychotherapy | 4. AY35 Applied Social Psychology |
| 2. AY15 Psychological Assessment and Measurement | 5. AY54 Statistics and Methodology Practical work |
| 3. AY25 Behaviour Analysis and Modification | Research Investigation or Critical Survey |

AD35 Educational Psychology IIP may be taken in place of any one of the subjects 1-4 above.

AY05 Counselling and Psychotherapy.

This course will be taken over two terms, with one two-hour session a week, as well as practical work in the student's own time. The course will provide supervised training and practice in developing counselling skills as well as an introduction to (a) the theory and modes of psychotherapeutic intervention and (b) major theories of counselling and psychotherapy.

Topics will include: Theories of individual, interactional and group psychotherapy; interpersonal variables affecting the psychotherapeutic relationships; theories of psychotherapeutic change; core dimensions in the 'helping' relationship; research in psychotherapy.

AY15 Psychological Assessment and Measurement.

This course will be given over two terms with one two-hour session a week. A series of practical work exercises is required.

Topics will include: The structure of intelligence; dimensions of personality; development and application of quantitative measures of both general and specific abilities; problems and limitations of measurement.

AY25 Behaviour Analysis and Modification.

This course will be given over two terms, with one two-hour session a week. A series of practical work exercises is also required.

Topics will include: Behaviour analysis and problem identification; relaxation training; systematic desensitisation, both in imagination and in viva; assertive training.

AY35 Applied Social Psychology.

This course will be given over two terms with one two-hour session a week. A written report on an exercise is required

The course will examine developments in the evaluation of social programmes; the design of interventions to ensure the clearest possible assessment of outcome and qualitative and quantitative assessments. Examples will be taken from health, education and social welfare programmes with an emphasis upon the critical, supportive role the social psychologist may play in community change.

AY54 Statistics and Methodology.

Lectures will be given for one term, with one two-hour session a week, and these will normally be attended during the second year of the part-time course.

Topics may include: Basic statistical procedures; complex experimental designs; analysis of data from non-experimental intact groups; evaluating the effects of actions taken in the field; uses of regression and covariance; factor analysis; the study of individual cases; the design of questionnaires, and the design and conduct of social surveys.

AD35 Educational Psychology IIP.

This subject consists of the work of either the half-subject AD1H Educational Psychology I1H(A) (Theories of Learning and Development in Education) *or* the half-subject AD3H Educational Psychology I1H(C) (Motivational and Personality Factors in Education) together with additional practical work exercises within the Department of Psychology. For syllabuses see under the degree of Bachelor of Education. Students who choose the half-subject AD1H Educational Psychology I1H(A) (Theories of Learning and Development in Education) will not be required to complete the statistical techniques section of the half-subject.

Practical Work.

Practical work in applied psychology will be required for a total of not less than one hundred and sixty hours. This will normally be undertaken both in the form of practical demonstrations, discussions and exercises in the Psychology Department, and in visits to and work with agencies co-operating with the Department. Practical work in the Department will include experience in interviewing and casework. Assessment will be made on the basis of attendance and work during the period of enrolment for the Diploma.

Research Investigation or Critical Survey.

A written report will be required of either a research investigation or a critical survey of the literature on a topic within the field of applied psychology, chosen by the student and approved by the Chairman of the Department of Psychology, and submitted for assessment in an approved form within six terms from the date of the granting of approval of the topic.

OF THE

DIPLOMA IN EDUCATION

REGULATIONS

1. There shall be a postgraduate Diploma in Education.
2. Except as provided for in regulation 3 a candidate for admission to the course for the diploma shall have qualified for admission to a degree of the University or to a degree of another university accepted for the purpose by the University.
3. Subject to the approval of the Council, the Faculty may in special cases and subject to such conditions (if any) as it may see fit to impose in each case accept as a candidate for the diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the diploma.
4. To qualify for the diploma a candidate shall:
 - (a) satisfactorily complete a course of full-time study extending over at least one year or of part-time study extending over at least two years; and
 - (b) satisfy the University in a course of practical teaching.
5. The course of study shall be prescribed in schedules which shall be drawn up from time to time by the Faculty of Arts and approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
6. A candidate who desires that the examinations which he has passed in the University or in another university should be counted *pro tanto* for the Diploma in Education, may on written application be granted such exemption from the requirements of these regulations as the Council shall determine.
7. A candidate for the diploma by part-time study who desires that his experience as a teacher should exempt him from a course of practical teaching may on written application be granted such exemption provided that he satisfies the University that he is a proficient teacher.
8. A candidate who has twice failed to pass the examination in any subject or division of a subject may not enrol for the subject again except by special permission of the Faculty and then only under such conditions as the Faculty may prescribe.

For the purpose of this regulation a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Dean as adequate, to attend all or part of an annual examination (or supplementary examination if granted) after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.
9. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the Diploma in Education.
10. These regulations shall come into force, and all existing regulations shall be repealed, on 1 January, 1962. However, a student who matriculated in the University on or before 31 March, 1960, may at his option complete the course for the diploma under the regulations in force in 1960 provided that he satisfies the requirements of regulation 3 of those regulations by 28 February, 1966.

Regulations allowed 16 March, 1961.

Amended: 4 Apr.1963: 10; 28 Feb.1974: 2, 3; 23 Jan.1975: 2; 15 Jan.1976: 5.

OF THE
DIPLOMA IN EDUCATION
SCHEDULES

(Made by the Council under regulation 5.)

NOTE: Syllabuses of the subjects for the Diploma in Education are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: COURSES OF STUDY

A candidate shall, unless exempted therefrom by the Faculty, regularly attend lectures, do such written and tutorial work as may be prescribed, and pass examinations in the following subjects:

| | |
|-------------------------------|--|
| AD04 Theory of Education I | AD34 Educational Psychology I |
| AD14 History of Education I | AD44 Curriculum Studies and Teaching Practice |
| AD24 Sociology of Education I | |

provided that a part-time teaching candidate who has had practical teaching experience and who is enrolled in AD44 Curriculum Studies and Teaching Practice may apply in writing by 31 March to the Faculty of Arts, through the Academic Registrar, for exemption from attendance at classes, tutorials, supervised teaching practice and examinations in this subject.

Such an application (which is **in addition** to enrolment for the subject) should be accompanied by a statement giving full details of teaching experience including dates, names and addresses of schools, and names of head teachers. The University will in due course seek a report on the candidate's competence as a teacher.

The Academic Registrar will inform each candidate by 31 July whether his or her application for exemption has been granted.

OF THE

DIPLOMA IN EDUCATION

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

DIPLOMA IN EDUCATION.

The course for the diploma is a single, composite course of full-time study lasting for one year and requiring the whole of a candidate's time to be devoted to it. The work consists of reading, attendance at a number of tutorial and seminar classes each week, such practical and written exercises as may be prescribed, visits to schools and other institutions, periods of supervised teaching practice, and attendance at lecture courses.

Each of the lecture courses consists of one lecture a week.

AD04 Theory of Education I.

The course is divided into two sections:

- A. THEORY.
- B. PHILOSOPHY.

Reading lists will be distributed by the lecturers in charge. Students should consult the departmental handbook.

AD14 History of Education I.

After a brief introduction to the history of childhood and the family, this course examines the social origins of public school systems in western society, with special reference to England and North America. It then deals with the development of public education in Australia in the context of political and educational change. In addition a special topic will be studied from a number of options, which in 1981 will be:

- A. PROGRESSIVE AND RADICAL ALTERNATIVES IN EDUCATION.
- B. THE EDUCATION OF WOMEN.

Basic texts:

Hyams, B. K., and Bessant, B., *Schools for people?* (Longman).

Katz, M., *Class, bureaucracy and schools* (Prager).

Lawson, J., and Silver, H., *A social history of education in England* (Methuen).

Full reading lists will be printed in the departmental course handbook, available in February.

AD24 Sociology of Education I.

This is an introductory course and, although its principle aim is to indicate the relationship between education and its social setting, a special emphasis is placed on theoretical sociology before discussing the educational implications of the subject.

The course for 1981 is divided into two sections:

A. CULTURE, SOCIETY AND EDUCATION.

B. SOCIOLOGY OF LEARNING.

Suggested preliminary reading:

Melbourne Studies in Education, 1968-69 (M.U.P.).

Berger, P., *Invitation to sociology: a humanistic perspective* (Penguin).

Australia 2000: the ethnic impact, edited by M. Bowen (University of New England Publishing Unit).

Marjoribanks, K. (ed.), *Environments for learning* (N.F.E.R.).

Marjoribanks, K., *Families and their learning environments* (Routledge).

Marjoribanks, K., *Ethnic families and children's achievements* (Allen and Unwin).

Smolicz, J. J., *Culture and education in a plural society* (C.D.C.).

Detailed reading lists will be printed in the departmental handbook available early in 1981.

AD34 Educational Psychology I.

The following books should be read as early as possible in the course to provide useful background material:

Lefrançois, G., *Psychology for teaching* (Wadsworth).

Flavell, J. H., *Cognitive development* (Prentice-Hall).

Bradley, J. I., and McClelland, J. N., *Basic statistical concepts: a self-instructional text* (Scott, Foresman).

Moursund, J. P., *Learning and the learner* (Brooks/Cole).

Evans, E. D., *Transition to teaching* (Holt, Rinehart and Winston).

The following book of readings should be available as a basis for part of the tutorial work:

Johnson-Laird, P. N., and Wason, P. C. (eds.), *Thinking: Readings in cognitive science* (Cambridge U.P.).

During the course students will be required also to read a number of articles from journals of psychology and educational psychology and portions of selected books. These will be detailed as required during the course.

AD44 Curriculum Studies and Teaching Practice.

(a) A prescribed period of supervised teaching practice is to be undertaken.

(b) Three options of curriculum studies, chosen from the following list, are to be undertaken. Students may choose their options either entirely within one group (e.g. Junior Social Studies, Geography and History) or from two groups (e.g. Junior Science, Physics and Junior Mathematics), but not from more than two groups.

Students should take note of both the conditions attached to particular options and the pre-requisites laid down for them.

At the discretion of the Chairman of the Department students who are precluded from taking more than two may be permitted to take only two.

The Chairman of the Department may dispense with any of the conditions applying to this subject in any particular case.

Group 1.

1A CLASSICAL STUDIES MAJOR (double option).

Pre-requisite: A pass at third-year level in one of Classical Studies, Latin, or Greek.

1B CLASSICAL STUDIES MINOR (may not be taken *with* 1A).

Pre-requisite: A pass at second-year level in one of Classical Studies, Ancient History, Latin or Greek.

Group 2.

2A ENGLISH MAJOR (double option).

Pre-requisite: A pass in one subject in English at third-year level.

2B ENGLISH MINOR (may not be taken *with* 2A).

Pre-requisite: A pass in one subject in English at second-year level.

Group 3.

3A JUNIOR MATHEMATICS.

Pre-requisite: A pass in one subject in Mathematics at first-year level.

3B SENIOR MATHEMATICS (may not be taken *without* 3A).

Pre-requisite: A pass in one subject in Mathematics at third-year level.

Group 4.

MODERN LANGUAGES MAJOR (double option).

4F FRENCH.

4G GERMAN.

4H SPANISH.

4I ITALIAN.

4J JAPANESE.

Pre-requisite: A pass in the appropriate language at third-year level.

MODERN LANGUAGES MINOR (single option).

4Q FRENCH.

4R GERMAN.

4S SPANISH.

4T ITALIAN.

4U JAPANESE.

Pre-requisite: A pass in the appropriate language either at second-year level, or, if the student has extensive practical experience of the language, at first-year level.

Note that there are not necessarily separate courses for different languages. The distinction between languages is made for the purposes of teaching practice placements in schools.

Group 5.

5A MUSIC MAJOR (double option).

5B MUSIC MINOR.

Both options here are to be considered by the Department in conjunction with the Department of Music.

Group 6.

6A JUNIOR SCIENCE.

Pre-requisite: A pass in two first-year subjects in the Physical or Biological Sciences.

6B BIOLOGY (may not be taken *without* 6A).

Pre-requisite: A pass in a third-year subject in Biology.

6C CHEMISTRY (may not be taken *without* 6A).

Pre-requisite: A pass in a third-year subject in Chemistry.

6D PHYSICS (may not be taken *without* 6A).

Pre-requisite: A pass in a third-year subject in Physics.

6E EARTH SCIENCE/GEOLOGY (may not be taken *without* 6A).

Pre-requisite: A pass in a third-year subject in Geology.

Science students whose subjects can not properly be classified under these headings should see the Chairman of the Department before enrolling.

Group 7.

7A JUNIOR SOCIAL STUDIES.

Pre-requisite: *Either* a pass at third-year level in one of History, Politics, Anthropology, Geography, Economics or Psychology; *or* a pass at second-year level in two of the above, or one of the above plus Philosophy.

7B HISTORY.

Pre-requisite: A pass in one subject in History at third-year level.

7C ECONOMICS.*

Pre-requisite: A pass in one subject in Economics at second-year level.

7D GEOGRAPHY.*

Pre-requisite: A pass in Geography at third-year level.

*Either 7C or 7D may be taken separately with any other option or options in the list; however, if they are taken together, then 7A must also be taken, i.e. 7A, 7C, 7D is the only permissible combination containing both.

Reading lists for the units will be available from the Department.

OF THE DEGREE OF

BACHELOR OF EDUCATION

REGULATIONS

1. There shall be a postgraduate degree of Bachelor of Education.
2. A candidate for admission to the course for the degree shall:
 - (a) have been admitted to a degree of the University or to a degree of another university accepted for the purpose by the University;
 - (b) hold the Diploma in Education of the University or a qualification accepted by the University as equivalent; and
 - (c) have completed such other work as may be prescribed in the schedules.
3. (a) Subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in regulations 2(a) and 2(b) above, but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
 - (b) Before deciding such a person's fitness, the Faculty may, if it so decides, require him:
 - (i) to complete prescribed preliminary work, and thereafter, or alternatively
 - (ii) to complete one or more prescribed courses of study and pass qualifying examinations of ordinary degree standard and/or Diploma in Education standard as fits the subject matter.
 - (c) The form and assessment of any preliminary work and/or of any course of study shall be proposed by the department or departments concerned and approved by the Faculty. In any qualifying examination at least two examiners, approved by the Faculty for the purpose, must contribute to the assessment of the candidate's performance.
4. To qualify for the degree, a candidate shall satisfactorily complete a course of full-time study extending over at least one year, or of part-time study extending over at least two years.
5. Schedules defining the course of study shall be drawn up from time to time by the Faculty of Arts and shall be approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar, which is issued after that approval has been given.
6. A candidate who desires that the examinations which he has passed in the University or in another university should be counted *pro tanto* for the degree of Bachelor of Education may, on written application to the Academic Registrar, be granted such exemption from the requirements of those regulations as the Council shall determine.
7. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the degree of Bachelor of Education.
8. Subjects already passed for the Advanced Diploma in Education shall be counted *pro tanto* for the degree of Bachelor of Education.
9. A person who holds the Advanced Diploma in Education of the University of Adelaide and who does not hold the degree of Master of Education of the University of Adelaide may, on application to the Registrar, be admitted to the degree of Bachelor of Education provided that he first surrenders the Advanced Diploma in Education.
10. A candidate who passes the examinations in the subjects prescribed for part I of the degree of Master of Education shall, on written application to the Academic Registrar, be admitted to the degree of Bachelor of Education.

Regulations awaiting allowance.

OF THE DEGREE OF
BACHELOR OF EDUCATION
SCHEDULES

(Made by the Council under regulation 5.)

NOTE: Syllabuses of subjects for the degree of B.Ed. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: SUBJECTS OF STUDY

1. The following shall be the subjects and half-subjects for the degree of Bachelor of Education (and Master of Education, Part I):

GROUP A: THEORY AND PHILOSOPHY OF EDUCATION

Half-subjects

| | |
|--|--|
| AD1E Theory and Philosophy of Education IIH(A) | AD5E Theory and Philosophy of Education IIH(E) |
| AD2E Theory and Philosophy of Education IIH(B) | AD6E Theory and Philosophy of Education IIH(F) |
| AD3E Theory and Philosophy of Education IIH(C) | AD7E Theory and Philosophy of Education IIH(G) |
| AD4E Theory and Philosophy of Education IIH(D) | AD8E Theory and Philosophy of Education IIH(H) |

GROUP B: HISTORICAL AND COMPARATIVE STUDIES IN EDUCATION

Half-subjects

| | |
|--|--|
| AD1F Historical and Comparative Education IIH(A) | AD5F Historical and Comparative Education IIH(E) |
| AD2F Historical and Comparative Education IIH(B) | AD6F Historical and Comparative Education IIH(F) |
| AD3F Historical and Comparative Education IIH(C) | AD7F Historical and Comparative Education IIH(G) |
| AD4F Historical and Comparative Education IIH(D) | AD8F Historical and Comparative Education IIH(H) |

GROUP C: SOCIOLOGY OF EDUCATION

Half-subjects

| | |
|------------------------------------|------------------------------------|
| AD1G Sociology of Education IIH(A) | AD5G Sociology of Education IIH(E) |
| AD2G Sociology of Education IIH(B) | AD6G Sociology of Education IIH(F) |
| AD3G Sociology of Education IIH(C) | AD7G Sociology of Education IIH(G) |
| AD4G Sociology of Education IIH(D) | |

GROUP D: EDUCATIONAL PSYCHOLOGY

Half-subjects

| | |
|------------------------------------|------------------------------------|
| AD1H Educational Psychology IIH(A) | AD3H Educational Psychology IIH(C) |
| AD2H Educational Psychology IIH(B) | |

GROUP E: ENGLISH CURRICULUM STUDIES

Subjects

| | |
|---|--|
| AD60 Advanced Curriculum Studies in English | AD80 Special Topic: English Curriculum Development |
| AE22 English IIB (Option: E706 LINGUISTICS) | |

Half-subjects

| | |
|---|---|
| AD7H Honours English (Education) IIH(A) | AD8H Honours English (Education) IIH(B) |
|---|---|

GROUP F: MATHEMATICS CURRICULUM STUDIES

Half-subjects

| | |
|---|---|
| AD1J Advanced Curriculum Studies in Mathematics IIH | AD3J Honours Mathematics (Education) IIH(B) |
| AD2J Honours Mathematics (Education) IIH(A) | AD4J Honours Mathematics (Education) IIH(C) |

GROUP G: HISTORY AND SOCIAL SCIENCE CURRICULUM STUDIES

Subject

AD65 Advanced Curriculum Studies in History and Social Science

GROUP H: ADULT EDUCATION

Half-subjects

| | |
|--|---|
| AD1K History and Theories of Adult Education IIH | AD3K Special Topic in Adult Education IIH |
| AD2K Adult Psychology and Education IIH | |

2. With the approval of the Chairman of the Department of Education, the following subject may also be counted for the degree of Bachelor of Education:

AD95 Philosophy of Education III

SCHEDULE II: COURSES OF STUDY

1. A candidate shall, unless exempted therefrom by the Faculty of Arts, regularly attend classes, do such written and tutorial work as may be required by the lecturer, and pass examinations in four subjects, or their equivalent, according to one of the combinations specified below.

2. A candidate for the general course in Education shall take the required subjects or half-subjects from at least **two** of the groups A, B, C and D, but with no more than five half-subjects, or their equivalent, from any one group, provided that a candidate may include one half-subject from group H.

3. A candidate for the course in English Curriculum shall take all the subjects and half-subjects in group E. Before being admitted to this course a candidate shall (a) have passed AE03 English III or hold an Honours degree in English or other qualification in English accepted by the Chairmen of the Departments of Education and English, and (b) have had at least one year's experience of teaching approved by the Chairman of the Department of Education.

4. A candidate for the course in Mathematics and Education shall take all half-subjects in group F, and the remaining two subjects, or their equivalent, from two of groups A, B, C and D. Before being admitted to the course a candidate shall (a) hold a degree in Mathematics or other qualification in Mathematics accepted by the Chairman of the Department of Education and by the Chairman of the appropriate department or departments in the Faculty of Mathematical Sciences, and (b) have had at least one year's experience of teaching approved by the Chairman of the Department of Education.

5. A candidate for the course in History and Social Science Curriculum shall take (a) the group G subject AD 65 Advanced Curriculum Studies in History and Social Science, and (b) two subjects, or their equivalent, from one or both of groups B and C, (d) one further subject, or its equivalent, from any of groups A, B, C or D. Before being admitted to this course a candidate shall have passed a third-year History or other relevant subject approved by the Chairman of the Department of Education, and shall have had at least one year's experience of teaching approved by the Chairman of the Department of Education.

6. A candidate for the course in Adult Education shall take the half-subjects AD1K History and Theories of Adult Education IIH, and AD2K Adult Psychology and Education IIH and in addition shall take *either* the half-subject AD3K Special Topic in Adult Education IIH, plus two and a half subjects or the equivalent from any of groups A, B, C and D, *or* three subjects from any of groups A, B, C and D; provided that in each case at least one half-subject must be included from group C.

OF THE DEGREES OF
BACHELOR OF EDUCATION
AND
MASTER OF EDUCATION (PART I)
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

BACHELOR OF EDUCATION
AND
MASTER OF EDUCATION (PART I)

GROUP A: THEORY AND PHILOSOPHY OF EDUCATION

AD1E Theory and Philosophy of Education IIA(A).

(Available 1981, second half-year)

THEORY OF CULTURE: PHILOSOPHICAL PROBLEMS OF THE HUMAN SCIENCES A.

Action, reason and cause; intention; explanation and understanding; holism and individualism.

Some authors: Davidson, Hempel, Von Wright, Wittgenstein, Lukes, Dray, Popper.

AD2E Theory and Philosophy of Education I(H)(B).

(Not available 1981; available 1982)

THEORY OF CULTURE: PHILOSOPHICAL PROBLEMS OF THE HUMAN SCIENCES B.

Language and meaning; symbolism; rationality and cultural relativity. Some authors: Wittgenstein, Chomsky, Quine, Winch, Gellner, Horton, Hesse, Douglas.

AD3E Theory and Philosophy of Education I(H)(C).

(Available 1981, second half-year)

IDEAS AND EDUCATION IN ENLIGHTENMENT FRANCE.

Origins and development of French Enlightenment thought. The "philosophes" and the "Encyclopédie". The problem of Rousseau. Aspects of educational theory and practice.

General reading (background):

Wade, I.O., *Intellectual origins of the French Enlightenment.*Cassirer, E., *Philosophy of the Enlightenment.*Hazard, P., *The European mind 1680-1715.*Hazard, P., *European thought in the 18th century.*Durkheim, E., *The evolution of educational thought.***AD4E Theory and Philosophy of Education I(H)(D).**

(Available 1981, first half-year)

CULTURAL FRAGMENTATION AND THE IDEA OF THE UNIVERSITY IN VICTORIAN ENGLAND.

Oxford. Secularisation, science, research. The Arnolds, Newman, Jowett, Pattison, Walter Pater. The involvement of the Public Schools. Headmaster-Dons.

General reading (background):

Rothblatt, S., *Tradition and change in English liberal education: an essay in history and culture.*De Laura, D., *Hebrew and Hellene in Victorian England.*Newsome, D., *Two classes of men: Platonism and English Romantic thought.*Chadwick, O., *The secularisation of the European mind in the 19th century.*Young, G., *Victorian England.***AD5E Theory and Philosophy of Education I(H)(E).**

(Available 1981, first half-year)

THE STRUCTURE OF KNOWLEDGE AND THE CURRICULUM.

This half-subject is concerned with the nature of knowledge and its structure, and its relationship to the Curriculum (both formal and hidden or accidental). At the start, an examination is made of some traditional philosophical problems such as scepticism, the nature of sense experience and evidence, theories of truth, distinctions between knowledge, belief, opinion and certainty, etc.

From the better informed position thus reached, a critical study is then made of recent writings about the curriculum and of the curriculum as it is observed in schools.

Basic Reading:

Barrow, R., *Common sense and the curriculum* (Unwin).Dearden, Hirst and Peters, *Education and the development of reason.*Hirst, P. H., *Knowledge and the curriculum.*

AD6E Theory and Philosophy of Education IIH(F).

(Available 1981, second half-year)

ETHICS, AESTHETICS AND EDUCATION.

This half-subject is concerned chiefly with moral and aesthetic education, both notoriously difficult since formal justification of basic value judgements is usually held to be wanting.

Some study is first made of long-continued philosophical arguments about ethics, then critical attention is turned to recent writings on the subject of moral and aesthetic education.

Basic Reading:

Barrow, R., *Moral philosophy for education* (Unwin).

Hirst, P. H., *Moral education in a secular society*.

Peters, R. S., *Ethics and education* (Routledge).

AD7E Theory and Philosophy of Education IIH(G).

(Available 1981, second half-year)

PARADIGMS AND MODELS IN SCIENCE AND EDUCATION.

Pre-requisite: The course is intended primarily for graduates of science, but in special cases, with the approval of the lecturer-in-charge, other qualified graduates (especially those with degrees in history or philosophy) may be permitted to take the course.

The half-subject involves a critical analysis of the work of Thomas Kuhn. Case-histories are then studied to illustrate the application of different aspects of Kuhn's theory to various branches of science. The educational consequences of Kuhn's thesis are examined and conclusions drawn in regard to its relativistic and prescriptive qualities.

Recommended books for preliminary reading:

Kuhn, T. S., *The structure of scientific revolutions*, 2nd edition (Chicago U.P.).

Lakatos, I., and Musgrave, A., *Criticism and the growth of knowledge* (C.U.P.).

Mulkay, M. J., *The social process of innovation* (Macmillan).

Barnes, B., *Sociology of science* (Pelican).

Ben-David, J., *The scientist's role in society* (Prentice-Hall).

Murray-Smith, S. (ed.), *Melbourne Studies in Education 1974* (M.U.P.).

AD8E Theory and Philosophy of Education IIH(H).

(Available 1981, second half-year)

THE NATURE OF SCIENCE AND SCIENCE CURRICULA.

Many school science courses expressly intend students to develop an understanding of scientific method. What is this scientific method? What, if anything, is unique to science and scientists?

Commonly held views of science and scientists will be identified and alternative views examined. Ways in which existing science courses support particular notions will be explored.

**GROUP B: HISTORICAL AND COMPARATIVE STUDIES IN
EDUCATION****AD1F Historical and Comparative Education IIH(A).**

(Not available 1981; available 1982)

THE HISTORY OF EDUCATION IN AUSTRALIA.

This course focuses principally upon South Australia. Main themes pursued are the establishment and extension of a state school system, in particular the political and educational ideas which influenced this development and the history of the curriculum and its relation to changing views of the purposes of education. There will also be some study of non-government schools, and post-secondary education. Students will undertake a small research project on a topic in South Australian educational history.

Basic references:

- Austen, A. G., and Selleck, R. J. W. (eds.), *The Australian Government School, 1830-1914* (Pitman).
Turney, C. (ed.), *Sources in the history of Australian education* (Angus and Robertson).

AD2F Historical and Comparative Education IIH(B).

(Available 1981, first half-year. Not available 1982)

EDUCATION, IDEAS AND SOCIETY IN RENAISSANCE ITALY AND ENGLAND.

The Italian Renaissance will be studied as a cultural revolution, focusing upon the intellectual and moral values asserted by the leading humanist writers and teachers. The increased value placed upon education, the transformation of the curriculum, and the development of educational institutions will be examined in their social context, both in Italy and England. The influence of Italian humanism, the "Christian humanists" and the Reformation upon English education will be studied, and the interaction between educational change and the strengthening of the Tudor state. Some influential writings on schooling, education and the "civilised man" will be examined, including those of Castiglione, Erasmus, Elyot and Mulcaster.

Basic References:

- Ross, J. B., and McLaughlin, M. M. (eds.), *The portable renaissance reader* (Viking).
Hale, J. R., *Renaissance Europe 1480-1520* (Fontana).
Kristeller, P. O., *Renaissance thought—the classic, scholastic and humanistic Strains*.
Cressy, D. (ed.), *Education in Tudor and Stuart England* (Edward Arnold).

AD3F Historical and Comparative Education IIH(C).

(Available 1981, first half-year. Not available 1982)

FAMILY, CLASS AND SCHOOLING IN NORTH AMERICA.

This course examines the changing relationship between family, class and schooling during the transition to industrial capitalism. It concentrates on the nineteenth and twentieth century and focuses on ideology and experience in the formation of the public school system.

Basic Reading:

- Bailyn, B., *Education in the forming of American society* (Vintage).
Katz, M. B., *Education in American history* (Praeger).

AD4F Historical and Comparative Education IIH(D).

(Not available 1981. Available 1982)

FAMILY, CLASS AND SCHOOLING IN ENGLAND.

This course focuses on the changing relationship between family, class and schooling during the Industrial Revolution in England. It concentrates on the development of forms of mass schooling in the nineteenth century and the working class response to them.

Basic Reading:

- Lawson, J., and Silver, H., *A social history of education in England* (Methuen).
McCann, P. (ed.), *Popular education and socialization in the nineteenth century* (Methuen).

AD5F Historical and Comparative Education IIH(E).

(Available 1981, second half-year and 1982, first half-year)

WOMEN AND EDUCATION IN A CHANGING SOCIETY.

This course is a comparative study of women in England, in the United States and in Australia, in the recent past. It is intended to examine the changing nature of the sexual division of labour and the ways in which this has been challenged or maintained. In particular this course will focus on the place of education in this process and on the development of specific institutions.

Basic References:

- Carroll, B. (ed.), *Liberating women's history* (University of Illinois Press).
Deem, R., *Women and schooling* (Routledge and Kegan Paul).
Tilly, L., and Scott, J., *Women, work and family* (Holt).
Windschuttle, E. (ed.), *Women, class and history* (Fontana).

AD6F Historical and Comparative Education IIH(F).

(Not available 1981)

IDEOLOGY IN EDUCATION: AUSTRALIA AND THIRD WORLD COUNTRIES.

Various ideological approaches to education will be examined, with special emphasis on ideologies of development and liberation. Current Australian approaches will be examined especially in the areas of multicultural education, disadvantaged schools programmes, and alternatives to school. Developments in Australia will be compared and contrasted with developments in Third World countries with particular reference to Tanzania, China, Cuba, Latin America.

AD7F Historical and Comparative Education IIH(G).

(Not available 1981)

TRADITION AND CHANGE IN FRENCH EDUCATION.

Special reference to the lycée and the universities. The contemporary scene and its historical background. Comparisons with England and Australia.

General Reading (background):

- Leff, G., *Paris and Oxford Universities in 14th Century*.
Barnard, H., *The French tradition in education: Ramus to Mme. Necker de Saussure* (C.U.P.).
Arnold, M., *Democratic education*.
Debiesse, J., *Compulsory education in France* (UNESCO).
Arnold, M., *Schools and universities on the Continent*.
Gusdorf, G., *The crisis in the universities*.

AD8F Historical and Comparative Education I(H).

(Available 1981, second half-year. Not available 1982)

THE PUBLIC SCHOOL AND PROGRESSIVE SCHOOL TRADITIONS IN ENGLAND AND AUSTRALIA.

This course examines the theories and practices of two related movements in English secondary education, and their transplantation and significance in Australian educational and social history. Beginning with the reform and proliferation of "public schools" from the time of Thomas Arnold at Rugby, it will include the creation of girls' secondary schools, and the foundation of experimental progressive secondary schools from the late nineteenth century. The adaptation of the public school model in the Australian context will be examined, and the way in which Australian schools have adopted aspects of both the Arnoldian and progressive traditions.

Basic Reading:

- Gathorne-Hardy, J., *The public school phenomenon*.
 Newsome, D., *Godliness and good learning* (Murray).
 Stewart, W. A. C., and McCann, W. P., *The educational innovators*.
 Lawson, J., and Petersen, R. C., *Progressive education: an introduction*.
 Cleverley, J. (ed.), *Half a million children* (Longman-Cheshire).

GROUP C: SOCIOLOGY OF EDUCATION**AD1G Sociology of Education I(H)(A).**

(Available 1981, first half-year)

CULTURE AND EDUCATION IN A PLURAL SOCIETY.

The theoretical framework of this course is provided by humanistic sociology of Florian Znaniecki. This is extended to social systems and developed in relation to ethnically plural societies. The key concepts are those of core values of different cultures, and personal cultural systems that individuals construct from the group values that are provided for them in society. Alternative orientations to cultural and structural pluralism are examined with special reference to curriculum and school organisations. Future cultural outcomes are then related to educational policy.

Basic Reading:

- Smolicz, J. J., *Culture and education in a plural society* (C.D.C.).
 Gordon, M., *Assimilation in American life* (O.U.P.).
 Clyne, M., *Australia talks: essays on the sociology of Australian immigrant and Aboriginal languages*. (Pacific Linguistics). Committee on the Teaching of Migrant Languages in Schools. *Report*. (Australian Government Publishing Service).
 Znaniecki, F., *Cultural sciences* (University of Illinois Press).

AD2G Sociology of Education I(H)(B).

(Available 1981, second half-year)

SCHOOLS AS CULTURAL SYSTEMS.

Humanistic sociology of culture is developed in relation to schools that are viewed as distinct cultural systems in society. Various types of schools are examined and members of the systems concerned are studied by the juxtaposition of the humanistic sociological and structural functional approaches in sociology.

Basic Reading:

- Selleck, R. J. W. (ed.), *Melbourne Studies in Education 1968-69* (M.U.P.).
Merton, R. K., *On theoretical sociology* (Free Press).
Znaniecki, F., (R. Bierstedt, ed.), *On humanistic sociology* (University of Chicago Press).
Smolicz, J. J., *Humanistic sociology: a review of concepts and methods* (La Trobe University).
Znaniecki, F., *Method of sociology* (Octagon).
Murray-Smith, S. (ed.), *Melbourne Studies in Education 1978* (M.U.P.).

Introductory Reading:

- Cohen, P. S., *Modern social theory* (Heinemann).
Bierstedt, R., *The social order* (McGraw-Hill).
Cuff, E. C., and Payne, G. C. F. (eds.), *Perspectives in sociology* (Allen and Unwin).

AD3G Sociology of Education I(H)(C).

(Available 1981 and 1982, first half-year)

FAMILIES, SCHOOLS AND CHILDREN'S ACHIEVEMENTS.

The course will examine the proposition that, the association of social class and ethnicity with children's educational achievement will not be explained by a theory or eliminated by a policy which falls short of including changes in public support for learning in the family and neighbourhood, the training of teachers, the production of relevant curricula, the fostering of parental participation, the raising of standards of housing and employment prospects, and, above all, the allocation of educational resources.

Short Reading List:

- Karabel, J. and Halsey, A. H., *Power and ideology in education* (O.U.P.).
Marjoribanks, K., *Environments for learning* (N.F.E.R.).
Marjoribanks, K., *Families and their learning environments* (Routledge and Kegan Paul).
Marjoribanks, K., *Ethnic families and children's achievements* (Allen and Unwin).

AD4G Sociology of Education I(H)(D).

(Available 1981 and 1982, second half-year)

SOCIOLOGICAL RESEARCH METHODS IN EDUCATION.

The course will examine the application of sociological research methods to an investigation of educational problems. Research methods examined will range from large scale surveys to ethnographic techniques. Multiple regression analysis will be the major statistical technique analysed in the course.

Short Reading List:

- Kerlinger, F. N., and Pedhazur, E. J., *Multiple regression in behavioral research* (Holt).
Kerlinger, F. N., *Behavioral research: a conceptual approach* (Holt).

AD5G Sociology of Education I(H)(E).

(Not available 1981)

ALIENATION & ANOMIE: IMPLICATIONS FOR CONTEMPORARY PROBLEMS IN EDUCATION.

Selected writings of Marx, Weber, Durkheim and their followers will be studied in detail, in order to build a conceptual framework for the study of alienation and anomie.

This conceptual framework will then be used in analysing contemporary problems, e.g. . . . problems of alienation and anomie in the education of Australian aboriginals . . . the sociology of work and the problems of unemployment.

AD6G Sociology of Education IIH(F).

(Not available 1981)

CLASSICAL THEORISTS IN SOCIOLOGY AND EDUCATION.

This half-subject is designed to *introduce* students to main currents in sociological thought: and to raise some of the theoretical issues which sociologists themselves are discussing. In particular, in identifying key issues and traditions in sociological theory the contribution to sociology of Durkheim, Marx and Weber will be examined.

AD7G Sociology of Education IIH(G).

RESEARCH PROJECT IN SOCIOLOGY OF EDUCATION.

Pre-requisite: A pass in at least two Group C half-subjects, with credit.

This half-subject will give students the chance to design and carry out a research project in the area of sociology of education.

GROUP D: EDUCATIONAL PSYCHOLOGY**AD1H Educational Psychology IIH(A).**

(Available 1981, first half-year)

THEORIES OF LEARNING AND DEVELOPMENT IN EDUCATION.

This course will be concerned with selected psychological theories of demonstrable consequence to education. A critical examination will be made of these theories, their educational interpretations and the research they have generated. As a part of these studies an introduction will be given to the use of basic statistical techniques in educational research and the SPSS computing package as a convenient means to problem solution.

The course necessitates consulting articles from several journals of psychology and education. These, together with relevant books, other than the programme cited below as an introduction to statistical work, will be detailed as the course progresses.

All students must work through the following programme:

Elzey, F. F., *A programmed introduction to statistics* (Wadsworth).

AD2H Educational Psychology IIH(B).

(Available 1981, second half-year)

PSYCHOLOGICAL IMPLICATIONS FOR SCIENCE EDUCATION.

Pre-requisite: The course will only be available to science graduates who have already passed AD1H Educational Psychology IIH(A), *at credit level*.

Students will be required to design and carry out a research project of their own, in the area of psychology and science education.

Reading: Specific to the project of each student.

AD3H Educational Psychology IIH(C).

(Available 1981, first half-year)

MOTIVATIONAL AND PERSONALITY FACTORS IN EDUCATION.

The course considers various aspects of the psychology of motivation. Concepts such as intrinsic motivation, achievement motivation and behaviour motivation have generated considerable bodies of research of relevance to education, and these are discussed at some

length. Teacher and pupil personality characteristics and their implications for learning, the effects of anxiety on learning performance and the relationship between sex differences and classroom performance are also considered. Examples of recommended reading:

Day, H. I., and others, *Intrinsic motivation—a new direction in education* (Holt, Rinehart and Winston).

Maccoby, E. E., and Jacklin, C. N., *The psychology of sex differences* (O.U.P.).

Gaudry, E., and Spielberger, C. D., *Anxiety and educational achievement* (Wiley).

Naylor, F. D., *Personality and educational achievement* (Wiley).

GROUP E: ENGLISH CURRICULUM STUDIES

AD60 Advanced Curriculum Studies in English.

A detailed study of current research and theory in the teaching of English with particular reference to secondary education. Emphasis is placed upon aspects of a number of linguistic theories, theories of culture and some recent anthropological works.

AE22 English IIB.

Option: E706 LINGUISTICS.

For syllabus see under the Department of English Language and Literature.

AD7H Honours English (Education) IIH(A).

One paper, not already passed, from those listed under AE99 Honours English Language and Literature, chosen subject to the approval of the Chairmen of the Departments of Education and English.

AD8H Honours English (Education) IIH(B).

One paper, not already passed or being taken concurrently with AD7H Honours English (Education) IIH(A) from those listed under AE99 Honours English Language and Literature, chosen subject to the approval of the Chairmen of the Departments of Education and English.

AD80 Special Topic—English Curriculum Development.

A special topic, related to English curriculum development and approved by the Chairman of the Department of Education, which will be the subject of an essay of approximately 12,000 to 15,000 words. Normally the topic would involve an original investigation of an issue which has some practical relevance for the candidate's professional interests.

GROUP F: MATHEMATICS CURRICULUM STUDIES

AD1J Advanced Curriculum Studies in Mathematics IIH.

A study of current research and theory in Mathematics Education.

AD2J Honours Mathematics (Education) IIH(A).

One unit, not already passed, from those offered in QM99 Honours Pure Mathematics, QN99 Honours Applied Mathematics, QT99 Honours Statistics, QA99 Honours Computing Science and QF99 Honours Mathematical Physics.

Note: This half-subject may not be taken unless the half-subject AD1J Advanced Curriculum Studies in Mathematics IIH has either been passed or is being taken concurrently.

AD3J Honours Mathematics (Education) IIH(B).

One unit, not already passed or being taken concurrently, from the Honours course as in AD2J Honours Mathematics (Education) IIH(A) above.

AD4J Honours Mathematics (Education) IIH(C).

One unit, not already passed or being taken concurrently, from the Honours course as in AD2J Honours Mathematics (Education) IIH(A).

GROUP G: HISTORY AND SOCIAL SCIENCE CURRICULUM STUDIES**AD65 Advanced Curriculum Studies in History and Social Science.**

(Not available in 1981; offered in 1982)

This subject is intended for history and social studies teachers, curriculum developers and teacher educators, in both primary and secondary education. It should be noted that a university major in history or a social science subject is a pre-requisite, and that students taking this subject must include two history and/or sociology subjects in their course for the B.Ed. or M.Ed.

The course will examine: (a) theories and research relating to curriculum and curriculum design and evaluation, with particular reference to history and social studies in primary and secondary education; (b) important recent examples of curriculum development, including Man: A Course of Study and the English Schools Council's Humanities Project and History 13-16 Project; (c) recent research and curriculum development in Britain and North America concerned with teaching about moral values and controversial social issues; (d) aspects of the nature of history and the social sciences. All these perspectives will be applied to a critical examination of current South Australian curricula and teaching methods. Each student will undertake a project in curriculum design or evaluation as a major part of the assessed work, which will also include essays and seminar papers.

Essential text-books:

- Golby, M., and others (eds.), *Curriculum design* (Croom Helm).
 Stenhouse, L., *An introduction to curriculum research and development* (Heinemann).
 Fraenkel, J. R., *How to teach about values* (Prentice-Hall).
 Gleeson, D., and Whitty, G., *Developments in social studies teaching* (Open Books).
 Keat, R., and Urry, J., *Social theory as science* (Routledge).

GROUP H: ASPECTS OF ADULT EDUCATION**AD1K History and Theories of Adult Education IIH.**

(Available 1981, second half-year)

The evolution of adult education in its various forms will be studied, together with the underlying ideas at different periods from the early 19th century to the present day. Provision and policies for adult education will be examined, such as the mechanics institutes, adult schools and the university extension movements, university tutorial classes and the Worker's Educational Association, and the more recent work of state

education departments. There will be a natural stress upon Australian adult education, but substantial attention will be paid to the history and ideas of British adult education, the source of many of its ideas. There will be comparative references to adult education in other countries. Seminar topics will be offered to students and they will be encouraged to undertake research projects.

Preliminary reading:

Peers, R., *Adult education: a comparative study*.

Kelly, T., *A history of adult education in Great Britain*.

Grattan, C. H., *In quest of knowledge: a historical perspective of adult education*.

Whitelock, D. (ed.), *Adult education in Australia*.

AD2K Adult Psychology and Education III.

(Available 1981, first half-year)

An introduction to the concepts of life-span developmental psychology with the emphasis on the implication for adult educators. This course will also consider more specialised aspects of adult learning such as the provision of adult education for disadvantaged groups.

Examples of recommended reading:

Birren, J. E., and Schaie, K. W. (eds.), *Handbook of the psychology of ageing*.

Elias, M. F., and others, *Basic processes in adult developmental psychology*.

A more detailed reading list will be available from the Department.

AD3K Special Topic in Adult Education III.

Pre-requisite: Passes in the two other half-subjects in Adult Education, and a credit in at least one subject or half-subject in the course.

This half-subject requires students to carry out an individual project or investigation in their teaching field or in some aspect of adult or continuing education. Enrolment for the half-subject will require the approval of the Chairman of the Department of Education and will be subject to availability of appropriate supervision.

AD95 Philosophy of Education III.

This course, with the approval of the Chairman of the Department of Education, may also be counted for the degree of Bachelor of Education. For syllabus see below under Master of Education

THESIS

Thesis for the degree of Master of Education.

Candidates are required to consult the Chairman of the Department about the subjects of their theses.

OF THE DEGREE OF

MASTER OF EDUCATION

REGULATIONS

1. There shall be a degree of Master of Education.
2. A candidate for admission to the course for the degree shall:
 - (a) have been admitted to a degree of the University or to a degree of another university accepted for the purpose by the University;
 - (b) hold the Diploma in Education of the University or a qualification accepted by the University as equivalent; and
 - (c) satisfy such other requirements for admission to the course as are set out in schedules.
- 2A. (a) Subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in regulation 2(a) and 2(b) above but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
 - (b) Before deciding such a person's fitness the Faculty may, if it so decides, require him:
 - (i) to complete prescribed preliminary work, and thereafter, or alternatively
 - (ii) to complete one or more prescribed courses of study and pass qualifying examinations of ordinary degree standard and/or Diploma in Education standard as fits the subject matter.
 - (c) The form and assessment of any preliminary work and/or of any course of study shall be proposed by the department or departments concerned and approved by the Faculty. In any qualifying examination at least two examiners, approved by the Faculty for the purpose, must contribute to the assessment of the candidate's performance.
3. To qualify for the degree a candidate shall:
 - (a) satisfactorily complete a course of study extending over at least one year of full-time study or at least two years of part-time study; and
 - (b) subsequently either present a satisfactory thesis on a subject approved by the Faculty of Arts, or present a satisfactory dissertation on a subject approved by the Faculty of Arts and also be examined on a further course of study.
4. Schedules defining the course of study shall be drawn up from time to time by the Faculty of Arts and shall be approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
5. A candidate for the degree by part-time study shall be examined in any year in not more than half the subjects of the course of study.
6. A candidate shall submit for approval by the Faculty of Arts the subject of his thesis or dissertation. The Faculty shall appoint a supervisor to guide the candidate in his work.
7. A candidate shall present his thesis, or submit his dissertation and take such examinations as are required of him in his further course of study, within four calendar years, but not earlier than one calendar year, from the date of commencing the work required in regulation 3(b).

8. On completion of his work the candidate shall lodge with the Academic Registrar three copies of the thesis or of the dissertation prepared in accordance with directions given to candidates from time to time.*

9. (a) The Faculty of Arts shall appoint examiners of the thesis or dissertation, of whom at least one shall be an external examiner.

(b) At the discretion of the examiners a candidate may be examined orally on his thesis or on his dissertation and may also be required to pass a written examination connected with the subject of his thesis or of his dissertation.

10. A candidate who desires that examinations which he has passed in the University or in another university should be counted *pro tanto* for the degree of Master of Education, may on written application be granted such exemption from the requirements of these regulations as the Council shall determine.

11. A candidate who complies with the foregoing conditions and satisfies the examiners shall, on the recommendation of the Faculty of Arts, be admitted to the degree of Master of Education.

12. A candidate who holds the degree of Bachelor of Education of the University of Adelaide shall surrender that degree before being admitted to the degree of Master of Education.

Regulations allowed 16 March, 1961.

Amended: 22 Dec. 1966: 3,6,7,9; 9 Jan. 1969: 2; 21 Dec. 1972: 2; 28 Feb. 1974: 2,6; 23 Jan. 1975: 2; 15 Jan. 1976: 4,8;
31 Jan. 1980: 3,6,7,9. Awaiting allowance: 2A, 12.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF

MASTER OF EDUCATION

SCHEDULES

(Made by the Council under regulation 4.)

SCHEDULE I: PART I OF THE DEGREE

1. The subjects and courses of study for Part I of the degree shall be those as prescribed in schedules I and II of the degree of Bachelor of Education. A candidate shall, unless exempted therefrom by the Faculty of Arts, regularly attend classes, do such written and tutorial work as may be required by the lecturer, and pass examinations in four subjects, or their equivalent, according to one of the combinations specified in schedule II of the degree of Bachelor of Education.

2. Before being admitted to Part II of the degree, a candidate shall pass with distinction or credit in at least one of the subjects, or two of the half-subjects, prescribed in clause 1, except that a distinction or credit in AE22 English IIB (E706 Linguistics option) shall not be counted.

3. Before being admitted to Part II of the degree **by thesis**, a candidate shall pass with distinction or credit in any subjects deemed by the Chairman of the Department of Education to be necessary for research in his chosen field, provided that the Faculty may, on the recommendation of the Chairman of the Department of Education, admit a candidate lacking the pre-requisites if he shows other evidence of his fitness to undertake research for the degree.

SCHEDULE II: PART II OF THE DEGREE BY EXAMINATION AND MINOR DISSERTATION

1. The following shall be the subjects of Part II of the degree by examination and minor dissertation:

AD97 Special Subject in Education

The subjects listed for Part I

AD95 Philosophy of Education III

AD96 Philosophy III (Education)

2. A candidate may, subject to the approval of the Chairman of the Department of Education, proceed to the degree by further course work and dissertation.

3. To qualify for the degree, a candidate shall:

(a) regularly attend classes, do such written and tutorial work as may be required, and pass examinations at the prescribed standard in two subjects as specified below, unless exempted therefrom by the Faculty;

(b) present a satisfactory dissertation of approximately 15,000 to 20,000 words on a subject approved by the Faculty of Arts.

4. A candidate for the degree in the field of Philosophy of Education shall pass AD95 Philosophy of Education III and AD96 Philosophy III (Education).

5. Other candidates for the degree shall take *either*:

AD97 Special Subject in Education and one subject or its equivalent, prescribed for Part I and not already taken for the degree, approved by the Chairman of the Department of Education;

or

two subjects or their equivalent, prescribed for Part I and not already taken for the degree, approved by the Chairman of the Department of Education.

OF THE DEGREE OF
MASTER OF EDUCATION
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

COURSE WORK FOR PART I.

The syllabuses for the course work for part I of the degree of Master of Education are published above, immediately after the schedules of the degree of Bachelor of Education.

SUBJECTS FOR PART II BY COURSE WORK.

AD95 Philosophy of Education III.

The course is designed to assist students with the preparation of their dissertations and to familiarise them with current developments in philosophy of education. Articles and recently published books will be examined, and students will be expected to prepare papers for discussion and to lead seminars. Some of the seminars will be held in conjunction with normal meetings of the South Australian Branch of the Philosophy of Education Society of Australasia.

AD96 Philosophy III (Education).

Three options selected from those listed at third-year level by the Department of Philosophy. Candidates should note that some options have pre-requisites and should consult the Chairman of the Department of Philosophy before enrolling for these. (Candidates who have previously passed AL03 Philosophy IIIA or AL03 Philosophy IIIA and AL13 Philosophy IIIB will be granted exemption from this subject.)

AD97 Special Subject in Education.

This course of reading, tutorials, essays and papers will be designed in each case by a lecturer in consultation with the student. It will normally consist of further specialised study in the student's chief subject area, and may be closely related to the student's dissertation topic. Intending students should consult with lecturers in their field of interest, and with the Chairman of the Department, who is responsible for approving the proposed choice of supervisor and course of study. Where possible, this consultation should take place in the November-December preceding the year in which a student proposes to enrol.

OF THE DEGREE OF
MASTER OF ARTS
REGULATIONS

1. The Faculty of Arts may accept as a candidate for the degree of Master of Arts any person who:

- (a) is recommended by a department or departments within the Faculty able and willing to provide facilities for the candidate's work towards the degree; and
- (b) has obtained an Honours degree, or other qualification accepted by the University as equivalent to an Honours degree, in a subject or subjects to which his proposed field of study relates.

2. (a) Subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualification specified in regulation 1 above, but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.

(b) Before deciding such a person's fitness the Faculty may, if it so decides, require him:

- (i) to complete prescribed preliminary work; and thereafter, or alternatively
- (ii) to complete a prescribed course of study and pass a qualifying examination of honours standard.

(c) The form and assessment of any preliminary work and/or of any course of study shall be proposed by the department or departments concerned and approved by the Faculty. In any qualifying examination at least two examiners, approved by the Faculty for the purpose, must contribute to the assessment of the candidate's performance.

3. Every candidate shall *either*:

- (a) present a thesis; *or*
- (b) (i) pursue a course of advanced study, which may include practical exercises; and
- (ii) present a thesis or dissertation.

The subject of any thesis or dissertation, and the content and method of assessment of any course of advanced study, shall be approved by the department or departments concerned and by the Faculty. Assessment shall in every case be by not less than two examiners of whom at least one shall be external to the University. The names of the examiners and the relative weighting of any course work and the thesis or dissertation in the overall assessment shall be proposed by the department or departments concerned and approved by the Faculty.

4. (a) Unless the Faculty expressly approve an extension of time in a particular case, the work for the degree shall be completed and the thesis or dissertation submitted:

- (i) in the case of a full-time candidate, not less than one year nor more than three years from the date at which candidature was accepted by the Faculty; *or*
- (ii) in the case of a part-time candidate, not less than one year nor more than five years from the date at which candidature was accepted by the Faculty.

- (b) On completion of work for the degree the candidate shall:
- (i) inform the Chairman or Chairmen of the department or departments in which his work has been done, and his supervisor or supervisors of his intention to submit his thesis or dissertation. The Chairman or Chairmen shall forthwith propose the names of examiners for approval by the Faculty;
 - (ii) lodge with the Registrar three copies of his thesis or dissertation prepared in accordance with directions given to candidates from time to time.*
5. The examiners of the thesis or dissertation may recommend that it *either*:
- (a) be accepted, with or without conditions; *or*
 - (b) be accepted, with or without conditions subject to satisfactory performance in an examination, either written or oral or both, in the field of study immediately relevant to the subject of the thesis or dissertation; *or*
 - (c) be not accepted, but that the candidate be allowed to re-submit it after revision; *or*
 - (d) be rejected.

The examiners of a thesis or dissertation re-submitted following recommendation (c) may recommend only (a), (b) or (d).

6. A candidate who fulfils the requirements of these regulations and satisfies the examiners of the thesis or dissertation under regulation 4 and of any course work under regulation 3(b) shall, on the recommendation of the Faculty, be admitted to the degree of Master of Arts.

Regulations allowed 15 January, 1976.

Amended: Awaiting allowance: 1, 2.

*Published in "Notes and Instructions to candidates for Higher Degrees"; see Table of Contents.

NOTE (not forming part of the regulations): Any thesis or dissertation is to comprise at least one half of the total requirements for the degree. Departments and candidates are informed that at present Australian Government Postgraduate Research Awards are only available if 70% or more of the work for the degree is towards a dissertation or thesis, and Australian Government Postgraduate Course Awards are only available if 50% or more of the work for the degree is course work of which at least 75% must be at postgraduate level.

OF THE DEGREE OF
MASTER OF ARTS

NOTES BY DEPARTMENTS

The attention of all candidates is directed to "Notes and Instructions to candidates for higher degrees" which gives general advice to candidates and sets out the specifications for theses. (See Table of Contents.)

Anthropology:

1. M.A. Qualifying:

This course will be open to students with no previous training in Anthropology or closely related disciplines and to students holding a degree not considered by the Department to be equivalent to B.A. Honours. Students will do the B.A. Honours course work and must produce a 15,000 word qualifying essay.

2. M.A. Programme:

Students will be eligible for entry to the programme if they hold an Honours degree in Anthropology or closely related social science discipline (for example, Sociology, Political Studies, History).

Candidates for the degree in Anthropology must:

- (a) present a thesis on a subject approved by the Faculty of Arts: between 30,000 and 40,000 words is suggested as the appropriate length, and
- (b) present themselves for examination in a portion of work approved by the Faculty of Arts.

Members of the department will lead a weekly seminar programme which all M.A. candidates will be encouraged to attend. A thesis will be written with the supervision of a department member appointed by the Faculty, and will be assessed by a member of the Anthropology Department and an external examiner. The thesis itself, though expected to be of high standard, need not necessarily contain original field work material.

Potential candidates should consult the Chairman of the Anthropology Department in the first instance.

Classics:

Candidates for the degree of M.A. in Classics must:

- (a) present a thesis on a subject approved by the Faculty of Arts; about 20,000 words is suggested as the appropriate length;
- (b) present himself for examination in a portion of work approved by the Faculty of Arts.

The qualifications required of applicants to be admitted as candidates for the degree are set out in the regulations of the degree of Master of Arts. In general, a candidate should have obtained a good Honours degree in Latin or Classics or Classical Studies.

The degree is intended to be obtained normally by one year of full-time or two years of part-time study. Work towards the degree is pursued under a supervisor or supervisors appointed by the Faculty, and consists largely of reading and essay work, until the candidate is ready to begin writing his thesis. The thesis itself, though of an advanced standard, is not intended necessarily to contain material that is a new contribution to knowledge.

Potential candidates should consult the Chairman of the Department of Classics in the first instance.

English Language and Literature:

Candidates for the degree of M.A. in English Language and Literature are advised to take the earliest opportunity of consulting the Chairman of the Department about their courses.

Candidates who wish to qualify for the degree of M.A. under regulation 1(b) (ii) are required for their qualifying examination to take six papers (including paper (i)) from the fourth-year honours papers available for AE99 Honours English Language and Literature. This involves one year's full-time study or two years' part-time study. Completion of this course will not qualify a student for the honours degree in English unless the other requirements set out in the syllabus are also met.

Candidates who have a satisfactory Honours degree or who have qualified by means of the M.A. qualifying examination should consult the Chairman of the Department as early as possible.

French Language and Literature:

Candidates for the degree of M.A. in French Language and Literature are advised to consult the Chairman of the Department at the earliest opportunity.

Candidates who seek to qualify under regulation 1(b) (ii) are required to have already passed at a good standard in French I, II and III, or their equivalents, and, then, to take the fourth-year Honours course in French Language and Literature. At the end of one year, if full-time, or at the end of two years, if part-time, they will be required to pass, at a satisfactory standard, the following examinations:

- (a) the thesis and four out of the five papers required for Honours in French Language and Literature; and
- (b) a paper on whichever one of the following two fields is *not* included in (a):
either Modern French Literature
or Medieval and Renaissance French Language and Literature.

Geography:

Candidates for the degree of M.A. in Geography are advised to consult the Handbook of the Department. A good Honours degree in Geography is necessary.

German Language and Literature:

Candidates for the degree of M.A. in German Language and Literature are advised to consult the Chairman of the Department.

History:

Candidates for the degree of M.A. in History are advised to consult the Chairman of the Department.

Music:

Candidates will be expected to undertake a composite master's degree course comprising:

- (i) the presentation of a thesis or a scholastic and performing edition of a major musical work or collection of musical works involving paleographic skills, a substantial editorial introduction and commentaries;
- (ii) four different units of advanced study undertaken in postgraduate seminars.

The degree of M.A. in Music is available in Musicology, Ethnomusicology, and Music in Education; Music Electronics may be included with any of these.

Philosophy:

Candidates for the degree of M.A. in Philosophy are required to consult the Chairman of the Department within the first month of the academic year about the subject and the course of reading for their thesis.

Politics:

Candidates for the degree of M.A. in Politics are advised to consult the Chairman of the Department at the earliest opportunity.

Psychology:

Candidates for the degree of M.A. in Psychology are advised to consult the Chairman of the Department.

OF THE DEGREE OF

DOCTOR OF LETTERS

REGULATIONS

1. (a) The Faculty of Arts may accept as a candidate for the degree of Doctor of Letters a person who has qualified for any degree in the University of Adelaide.

(b) On the recommendation of the Faculty of Arts, the Council may accept as a candidate for the degree a person who (i) has obtained in another university or institution of higher education a qualification accepted for the purpose by the University as equivalent to a degree of the University; and (ii) has, or has had, a substantial association with the University.

(c) No person may be admitted to the degree of Doctor of Letters before the expiration of five years from the date on which he obtained the qualification prescribed in (a) or (b) (i) above.

2. (a) A person who desires to become a candidate for the degree shall give notice of his intended candidature in writing to the Registrar and with such notice shall furnish particulars of his scholarly achievements and of the work which he proposes to submit for the degree.

(b) The Faculty of Arts shall examine the information submitted and decide whether or not to allow the applicant to proceed.

(c) If the Faculty accept the candidature it shall nominate examiners, of whom two at least shall be external examiners.

3. (a) To qualify for the degree the candidate shall furnish satisfactory evidence that he has made an original and substantial contribution of distinguished merit to the knowledge or understanding of any subject with which the Faculty is directly concerned.

(b) The degree shall be awarded primarily on a consideration of such of his published works as a candidate may submit for examination, but the examiners may take into account any unpublished original work that he may submit in support of his candidature.

(c) The candidate in submitting his work shall, where applicable, state generally in a preface and specifically in notes the main sources from which his information is derived and the extent to which he has availed himself of the work of others, especially where joint publications are concerned. He may also signify in general terms the portions of his work which he claims as original.

(d) The candidate shall indicate what part, if any, of his works has already been submitted for a degree in this or any other university.

4. The candidate shall lodge with the Registrar three copies of the works submitted for the degree, any unpublished work being prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Registrar will transmit two of the copies to the University Library.

5. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Arts, be admitted to the degree of Doctor of Letters.

6. Notwithstanding anything contained in the preceding regulations, the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to the knowledge or understanding of a subject with which the Faculty is directly concerned, of a standard not less than that required by regulation 3.

Regulations allowed 16 December, 1971.
Amended: 15 Jan. 1976: 6.

FACULTY OF DENTISTRY
REGULATIONS, SCHEDULES AND
SYLLABUSES OF DEGREES

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OF THE DEGREE OF

BACHELOR OF DENTAL SURGERY

REGULATIONS

1. There shall be a degree of Bachelor of Dental Surgery.
2. Schedules defining the courses of study, including lectures, clinical practice, laboratory and other practical work to be undertaken, and the examinations to be passed, shall be drawn up by the Faculty of Dentistry and submitted to the Council. Such schedules shall become effective from the date of approval by the Council or from such other date as the Council may determine, and shall be published in the University Calendar.
3. A candidate shall enter for each annual examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has completed to the satisfaction of the professors and lecturers concerned the course of study and practice prescribed for that examination.
4. Written or practical work done by candidates by direction of the professors and lecturers and the results of terminal or other examinations in any subject may be taken into consideration at the final examination in that subject.
5. All regulations hitherto in force concerning the degree of Bachelor of Dental Surgery are hereby repealed: provided that this repeal shall not affect
 - (a) anything done or suffered under any regulation hereby repealed; or
 - (b) any right or status acquired, duty imposed, or liability incurred by or under any regulation hereby repealed.
6. The course of study for the degree of Bachelor of Dental Surgery shall extend over five years. To qualify for the degree a candidate shall regularly attend lectures, tutorials and clinical practice, do written and laboratory or other practical work to the satisfaction of the professors and lecturers concerned, and pass the examinations prescribed in the schedules.
7. A candidate may intermit his course for one year to proceed to the Honours degree of Bachelor of Science in Dentistry, or he may seek the permission of the Faculty to intermit his course for such time and on such conditions as may in each case be determined by the Faculty.
8. The annual examination shall be held in or about August or November, as the Council shall in each case determine from time to time. The supplementary examinations shall be held at such times as the Council, on the recommendation of the Faculty, may determine.
9. The Board of Examiners may grant a supplementary examination to a candidate who has been prevented by illness or other sufficient cause from attendance at the whole or part of the annual examination or who has failed a part of such examination.
10. A candidate shall not be re-examined at a supplementary examination in any subject or group of subjects in which he had passed at the annual examination.
11. The annual examination at the end of the fifth year shall be known as the Final Examination. A final examination may also be held in May or June. On the recommendation of the Board of Examiners the Faculty may debar any candidate who has failed in the Final Examination from presenting himself at a subsequent Final Examination until a period of twelve months has elapsed since that failure.

12. (a) There shall be three classifications of pass in each component subject of the annual examinations for the degree, as follows: Pass with Distinction, Pass with Credit, Pass. The names of candidates who pass with Distinction or with Credit shall be arranged in order of merit within the relevant classification; the names of candidates who pass shall be arranged in alphabetical order.

(b) A candidate who fails to pass in any subject of an annual examination shall, unless exempted wholly or partially therefrom by the Faculty, again attend lectures, clinical practice, laboratory and other practical work in that subject before presenting himself again for examination. In the case of the third, fourth and fifth years, such a candidate may also be required to attend, concurrently, such lectures, clinical practice, laboratory and other practical work as the Faculty may prescribe, in other subjects of that annual examination.

(c) Except in the case of the First Annual Examination, a candidate who is exempted from part of any subject shall not be granted a classified pass in that subject.

13. A candidate who has passed subjects in other faculties or universities or elsewhere, may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

Regulations allowed 16 March, 1961.

Amended: 17 Dec. 1970: 9, 10, 11, 12; 21 Dec. 1972: 13; 28 Feb. 1974: 1, 8, 9, 12; 15 Jan. 1976: 2; 2 Feb. 1978: 6, 7.

NOTE (not forming part of the regulations): A candidate who is eligible to re-enrol in the dental course and who fails to do so without faculty permission will be required to apply for re-admission to the course. He will be able to re-enrol only if selected for re-admission.

OF THE DEGREE OF

BACHELOR OF DENTAL SURGERY

SCHEDULES

(Made by the Council under regulation 2.)

NOTES: 1. The dental clinical year begins on the fifth Monday in the year. 2. Students should obtain from the Dental School Office the lists of instruments and equipment required by each student before commencing each year's course. 3. Syllabuses of subjects for the degree of B.D.S. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: COURSES OF STUDY

1. Approval of Enrolment.

Students who have been granted, or are seeking, exemption from the requirements of these schedules under regulation 13 must have their course of study approved by the Dean (or his nominee) at the time of enrolment in the year concerned.

2. Lectures, Practical Work, Clinical Instruction.

First Year

During the first year every student shall attend courses of instruction in: (a) Behavioural Science, (b) Biology, (c) Chemistry, (d) Genetics, (e) Introductory Anatomy and Histology, (f) Medical Physics, (g) Introduction to Dentistry: Dental Care and (h) Oral Anatomy.

Second Year

During the second year every student shall attend courses of instruction in: (a) General Anatomy, (b) General and Dental Histology, (c) Biochemistry, (d) Human Physiology, (e) Oral Anatomy, (f) Dental Materials and Technics and (g) Dental Care.

Third Year

During the third year every student shall attend courses of instruction encompassing the disciplines/subjects of: (a) Human Physiology, (b) Pharmacology, (c) General Pathology, (d) Microbiology, (e) Oral Pathology, (f) Removable Prosthodontics, (g) Conservative Dentistry, (h) Dental Materials Science, (i) Dental Health, (j) Pain Control, (k) Oral Diagnosis, (l) Radiology and (m) Dental Occlusion; and shall attend at the Dental Department of the Royal Adelaide Hospital for clinical instruction.

Fourth Year

During the fourth year every student shall attend courses of instruction encompassing the disciplines/subjects of: (a) General Medicine, (b) General Surgery, (c) Children's Dentistry, (d) Orthodontics, (e) Periodontology, (f) Endodontics, (g) Oral Pathology, (h) Pharmacology and Therapeutics, (i) Oral Diagnosis, (j) Radiology, (k) Oral Surgery, (l) Removable Prosthodontics, (m) Conservative Dentistry and (n) Crown and Bridge Prosthodontics; and shall attend at the Royal Adelaide Hospital courses of clinical instruction in medical and surgical practice, and at the Dental Department of the Royal Adelaide Hospital for clinical instruction.

Fifth Year

During the fifth year every student shall attend courses of instruction encompassing the disciplines/subjects of: (a) Oral Medicine, (b) Oral Surgery, (c) General Anaesthesia, (d) Pain Control, (e) Oral Diagnosis and Radiology, (f) Preventive Dentistry, (g) Orthodontics, (h) Periodontology, (i) Endodontics, (j) Conservative Dentistry, (k) Removable Prosthodontics, (l) Crown and Bridge Prosthodontics, (m) Principles of Practice, and (n) Advanced Oral Biology (elective); and shall attend at the Dental Department of the Royal Adelaide Hospital for clinical instruction.

SCHEDULE II: EXAMINATIONS

1. First Annual Examination.

At the First Annual Examination the candidate shall satisfy the examiners in each of the following subjects and half-subjects:

| | |
|--------------------------|---|
| MH71 Behavioural Science | SJ8H Genetics IH(M) |
| SZ51 Biology ID | MA71 Introductory Anatomy and Histology |
| SC81 Chemistry ID | SP7H Medical Physics |

2. Second Annual Examination.

At the Second Annual Examination the candidate shall satisfy the examiners in each of the following subjects:

| | |
|-----------------------------------|-------------------------------|
| SY82 Biochemistry | SS22 Human Physiology IID |
| MA72 General Anatomy | DB02 Oral Anatomy |
| MA82 General and Dental Histology | DR02 Restorative Dentistry II |

3. Third Annual Examination.

At the Third Annual Examination the candidate shall satisfy the examiners in each of the following subjects:

| | |
|----------------------------|--------------------------------|
| MP73 General Pathology | DP03 Oral Pathology III |
| SS23 Human Physiology IIID | MR23 Pharmacology IIID |
| DB13 Microbiology | DR03 Restorative Dentistry III |

4. Fourth Annual Examination.

At the Fourth Annual Examination the candidate shall satisfy the examiners in each of the following subjects:

| | |
|---------------------------|------------------------------------|
| DH04 Children's Dentistry | DH14 Periodontology IV |
| MM04 General Medicine | DB24 Pharmacology and Therapeutics |
| MS04 General Surgery | DR04 Restorative Dentistry IV |
| DP04 Oral Pathology IV | |

5. Final Examination (Fifth Year).

At the Final Examination the candidate shall satisfy the examiners in each of the following subjects:

| | |
|---|------------------------------|
| DP25 Oral Medicine, Oral Diagnosis and Dental Radiology | DP35 Pain Control |
| DP15 Oral Surgery | DH15 Periodontology V |
| DH35 Orthodontics | DH25 Preventive Dentistry |
| | DR05 Restorative Dentistry V |

6. General.

A candidate shall complete each annual examination before entering upon the work of the following year's course of study provided that:

- (a) a candidate who has passed, or has been granted status in all but one subject or its equivalent of an annual examination shall enrol, or re-enrol, in that subject and may, by permission of the Faculty, enrol concurrently for not more than two subjects, specified by the Faculty, from the following year's course of study; but if he fails to pass in the outstanding subject and is permitted to continue with his studies in the Dental course, he shall again enrol for that subject, but shall not be permitted to enrol for any other subject in the Dental course until he has passed in that outstanding subject.
- (b) a candidate may begin the first term's work in the following year's course of study pending the result of any supplementary examination for which he has been permitted to present himself.

RULES FOR THE ADMISSION OF DENTAL STUDENTS TO THE PRACTICE OF THE ROYAL ADELAIDE HOSPITAL

1. Each dental student of the University of Adelaide shall attend at the Dental Department and at other Departments of the Royal Adelaide Hospital as directed by the Dean of the Faculty of Dentistry; and each student shall be admitted to the practice of the Hospital under the disciplinary control of the Medical Superintendent or the Administrator, Dental Services, whilst attending a Department of the Hospital.
2. No student may introduce visitors into any department of the Hospital without permission from the Administrator.
3. Every student shall conduct himself with propriety and discharge the duties assigned to him, and pay for or replace any article damaged or lost, or destroyed by him, and make good any loss sustained by his negligence.
4. Each student shall at all times be under the direction and supervision of a duly appointed member of the teaching staff of the University of Adelaide, and shall carry out such work as shall be allotted to him.
5. No student shall administer treatment to any patient without the approval of an appointed teacher.
6. No student shall publish a report on any case without the written permission of the Honorary Medical Officer or Honorary Dental Officer under whose care the patient is or has been.
7. Any student infringing any of these rules, or otherwise misconducting himself, may be temporarily suspended by the Medical Superintendent or the Administrator, Dental Services. In the case of such temporary suspension, written notice shall immediately be given to the Dean of the Faculty of Dentistry and the Administrator of the Hospital.

OF THE DEGREE OF
BACHELOR OF DENTAL SURGERY
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

FIRST ANNUAL EXAMINATION.**MH71 Behavioural Science.****SJ8H Genetics IH(M).****SP7H Medical Physics.**

For syllabuses of the above subjects for the First Annual Examination *see* under the degrees of Bachelor of Medicine and Bachelor of Surgery in the Faculty of Medicine.

SZ51 Biology ID.

This course is similar to that for SZ61 Biology IM except that the section of the course dealing with invertebrates and ecology will not be formally examined and dental students will not be required to attend the practical sessions relating to that part of the course.

(For syllabus of SZ61 Biology IM *see* under the degrees of Bachelor of Medicine and Bachelor of Surgery in the Faculty of Medicine.)

SC81 Chemistry ID.

This course of 110 contact hours has been designed to meet the specific needs of dental students. The course content is similar to that for SC71 Chemistry IM, the syllabus for which may be found under the degrees of Bachelor of Medicine and Bachelor of Surgery in the Faculty of Medicine.

MA71 Introductory Anatomy and Histology.

This course of about 45 lectures/tutorials and 36 hours of practical classes extends over three terms and covers introductory gross anatomy, general histology and cytology.

Text-books:

Scott, J. H., and Dixon, A. D., *Anatomy for students of dentistry* (Livingstone).
Junqueira, L. C., and others, *Basic histology* (Lange).

Introduction to Dentistry—Dental Care I.

The aim of this course is to give students an initial appreciation of the nature of dental practice, and an opportunity to become aware of their own levels of dental health and the factors affecting this. This will lead to a discussion of the nature of the remainder of the course to show how training will enable students to become competent to provide dental care to individual patients and to become involved in community dental care programmes.

Examples of topics included are: the historical development of dental practice, introduction to the structure and function of the oral tissues, factors affecting the health of oral tissues, how these factors can be controlled, dental health of the Australian population, and an initial view of treatment of the most common dental diseases.

Assessments will be made of practical performance, and a 1000 word essay will be set in mid third term. These will contribute 25% of the marks toward the final examination in Dental Care II in 1982.

Text-book:

Forrest, J. O., *Preventive dentistry* (Wright).

Oral Anatomy I.

New first-year course to commence in 1981. This course will comprise one lecture a week and one two hour practical/clinical session in term 3. The course will be closely integrated with Dental Care I.

Material to be covered:

Oral surface features, morphology of the deciduous and permanent teeth, introduction to forensic odontology.

There will not be a formal examination in this subject at the end of first year, however assessment of practical performance will contribute to the overall mark in DB02 Oral Anatomy II. The final examination in this subject will be held at the end of second term in the second year of the course.

Text-books:

Wheeler, R. C., *Dental anatomy, physiology and occlusion*, 5th edition (Saunders);
OR

Kraus, B. S., and others, *Dental anatomy and occlusion* (Williams and Wilkins);
OR

Scott, J. H., and Symons, N. B. B., *Introduction to dental anatomy* (Churchill Livingstone).

SECOND ANNUAL EXAMINATION.**SY82 Biochemistry.**

A lecture course covering general biochemistry in two terms, followed by a course of audio-visual dental science laboratory-tutorial-units.

The lecture course will include aspects of protein structure and function, blood clotting, metabolism of carbohydrates, lipids and amino acids; porphyrin metabolism; hormone action and metabolic control; biological membranes; nucleic acid and protein synthesis; mutation; control of gene expression; eukaryote chromosomes; biochemistry of cancer. The dental science tutorials will deal with connective tissue, mucopolysaccharides, fibrous structural proteins; protein biosynthesis, and the secretion of body fluids; calcified tissues, the structure of bone, dentine and cementum; the metabolism of calcium and phosphorus, the functions of Vitamin D, parathyroid hormone, calcitonin, the mineralisation process.

Text-book:

Cole, A. S., and Eastoe, J. E., *Biochemistry and oral biology* (Wright).

MA72 General Anatomy.

The course of 80 lectures and 80 hours of practical work and demonstrations extends over three terms. It is arranged to cover the general anatomy of the body and the principles underlying its structure, the topographical anatomy of the head and neck and the dissection of this region, and a brief course in neurobiology.

Text-books:

General and topographical anatomy:

Cunningham, D. J., *Manual of practical anatomy*, vol. 3 (O.U.P.).

Scott, J. H., and Dixon, A. D., *Anatomy for students of dentistry* (Livingstone).

Neurobiology:

Noback, C. R., and Demarest, R. J., *The nervous system: introduction and review* (McGraw-Hill).

MA82 General and Dental Histology.

This course of study extends over three terms and consists of about 50 lectures and 100 hours of practical classes on general histology and cytology, and histology and development of teeth and adjacent structures.

Text-books:

Junqueira, L. C., and others, *Basic histology*, 3rd edition (Lange).

Orban, B. J., *Oral histology and embryology*, 8th edition (Mosby).

Atlas (optional):

Bergman, R. A., and Afifi, A. K., *Atlas of microscopic anatomy. A companion to histology and neuroanatomy* (Saunders); OR

Reith, E. J., and Ross, M. H., *Atlas of descriptive histology*, 3rd edition (Harper);
OR

Fiore, M. S. H. di, *An atlas of human histology* (Lea and Febiger).

SS22 Human Physiology IID.

A course of lectures, tutorials and experimental work covering aspects of general and systematic physiology extending over the three terms of second year.

Text-books:

Ross, G., *Essentials of human physiology* (Year Book Medical Publishers).

Selkurt, E. E., *Physiology*, 4th edition (Little, Brown).

DB02 Oral Anatomy II.

A course of instruction on the functional anatomy of the teeth and associated structures consisting of: the morphology of primary and permanent teeth, the anatomy of the tooth supporting tissues and the physiology of dental occlusion.

The teeth and associated structures will be studied in a series of laboratory exercises which include visual representation, tooth reconstruction, and oral examination.

Text-books:

As for Oral Anatomy I.

DR02 Restorative Dentistry II.

The course forms the basis of continuing studies in Conservative Dentistry which extend through the second, third, fourth and fifth years and which form part of integrated studies in Restorative Dentistry. Lectures and practical work in Operative Dentistry are concerned with the basic aetiology of dental disease, and the restoration of teeth with plastic materials. This course includes a series of lectures on the Science of Dental Materials. A series of tutorials parallels progress in the practical work. Candidates are required to pass in both sections of the course, Operative Dentistry and the Science of Dental Materials.

Text-books:

Greener, E. H., and others, *Materials science in dentistry* (Williams and Wilkins).

Sturdevant, C. M., and others, *The art and science of operative dentistry* (McGraw-Hill).

Dental Care II.

A short course of lectures, practical and clinical work will be given as a continuation of the first year subject—Introduction to Dentistry—Dental Care I.

Text-book:

Forrest, J. O., *Preventive dentistry* (Wright).

THIRD ANNUAL EXAMINATION.**MP73 General Pathology.**

A course of instruction on the general principles of pathology, consisting of: the genetic background of disease; the causation, character and sequelae of inflammation, degeneration, regeneration, repair, hypertrophy, atrophy and hyperplasia; blood disorders; thrombosis, embolism, infarction and ischaemia; the fundamentals of neoplasia. The pathology of systemic disease of importance in dental practice is also briefly studied.

Text-book:

Walter, J. B., *et al.*, *Principles of pathology for dental students*, latest edition (Churchill).

SS23 Human Physiology IIID.

This course in Physiology is a continuation of the second year studies (SS22), but with increased emphasis being placed upon aspects of those subjects which are of importance to dental students.

Text-books:

As for SS22 Human Physiology IID.

DB13 Microbiology.

The course emphasises basic principles of microbiology and immunology covering the general areas of: morphology, cytology, metabolism, physiology, ecology, isolation, cultivation and classification of bacteria and viruses. Principles of disinfection, sterilisation and chemotherapy. Microbial genetics. Host-parasite relationships, mechanisms of microbial pathogenicity and principles of immunology and resistance to infective agents. Characteristics of selected groups of micro-organisms and viruses important in medical microbiology. Consideration of the oral microbiota and its relation to dental disease.

Text-books:

- Burnett, G. W., and Scherp, H. W., *Oral microbiology and infectious disease*, Student edition (Williams and Wilkins).
Jawetz, E., and others, *Review of medical microbiology*, 12th edition (Saunders/Lange).

DP03 Oral Pathology III.

A course of lectures and practical classes extending over two terms.

This course of instruction is based on the principles of general pathology and microbiology. Oral manifestations of disease processes are studied, and practical instruction given in clinical aspects and histopathology of diseased oral tissues.

The course deals with pathological processes involving enamel, dentine, cementum and pulp; dental caries; periodontal disease and cysts of the jaws, and healing of oral wounds.

Text-book:

- Shafer, W. G., and others, *A textbook of oral pathology*, 3rd edition (Saunders).

MR23 Pharmacology IIID.

A course in term 2, comprising 27 lectures and 18 hours practical. The course covers the basic principles of drug action, uses of drugs, and includes a discussion of the factors which determine the duration, intensity and variability of drug effect.

Text-books:

- Goodman, L. S., and Gilman, A., *The pharmacological basis of therapeutics*, current edition (Macmillan).
Avery, G. S., *Drug treatment*, 2nd edition (ADIS Press).

DR03 Restorative Dentistry III.

The three disciplines of Conservative Dentistry, Removable Prosthodontics, and Dental Materials Science are given in this course, and candidates must obtain a pass in each of these three sections of the course.

CONSERVATIVE DENTISTRY:

The course in Conservative Dentistry is an extension of the discipline of Operative Dentistry from the second year. The course is given in two parts: the first consists of an introduction to clinical work and the treatment of patients for simple restorative procedures (soon after the commencement of the course a test is given to see whether students may progress directly to the treatment of patients or whether further preclinical studies are required). The second section deals with preclinical and laboratory stages for direct and indirect inlay work, and some other advanced procedures in Operative Dentistry.

Text-books:

- As indicated in DR02; and
Forrest, J. O., *Preventive dentistry* (Wright).

REMOVABLE PROSTHODONTICS:

The course consists of lectures, tutorials, demonstrations and laboratory and clinical practice. Studies are concerned with the physiology of occlusion and its relation to restorative dentistry. Instruction is also provided in the laboratory aspects of complete denture prosthodontics and students who complete this section of the course satisfactorily are permitted to commence clinical treatment of edentulous patients. An introduction to the laboratory aspects of removable partial denture prosthodontics is presented during the latter part of the year.

Text-books:

Ramfjord, S. P., and Ash, M. M., *Occlusion* (Saunders).

Sharry, J. J., *Complete denture prosthodontics* (McGraw-Hill); *OR*

Boucher, C. O., and others, *Prosthodontic treatment for edentulous patients*, 7th edition (Mosby).

Sowter, J. B. (ed.), *Dental laboratory technology: prosthodontic techniques* (North Carolina U.P.).

DENTAL MATERIALS SCIENCE:

The course consists of lectures, tutorials and practical work in the science of dental materials and includes applied aspects for clinical and laboratory application. The course is illustrated in a series of practical classes.

Text-books:

American Dental Association, *Guide to dental materials and devices*, 8th edition.

Phillips, R. W., *Skinner's science of dental materials*, 7th edition (Saunders).

Dental Radiology.

The course in Dental Radiology begins in the third year of the dental course. However, material relevant to Dental Radiology is also given and examined by the departments of Physics, Genetics, Anatomy and Oral Biology in the first and second years. For other details of the course see DP25 Oral Medicine, Oral Diagnosis and Dental Radiology.

Oral Diagnosis.

A short course of introductory lectures is given at the end of third year, and at the beginning of fourth year. For further details of the course see DP25 Oral Medicine, Oral Diagnosis and Dental Radiology.

Pain Control.

The course in Pain Control commences in the third year of the course. For full details of the course see DP35 Pain Control in the fifth year of the course.

FOURTH ANNUAL EXAMINATION.

DH04 Children's Dentistry.

A course of instruction on child management and the materials and methods used in the treatment of injuries and diseases of children's teeth.*

Text-book:

McDonald, R. E., and Avery, D. R., *Dentistry for the child and adolescent*, 3rd edition (Mosby).

*Clinical instruction in this subject commences in the fourth year and is continued throughout the fifth year until the final examination.

Competence in the management of children's dental problems is included in the overall assessment of the final year students.

MM04 General Medicine.

A special course of lectures and clinical instruction in the principles of medicine and on the diseases of different organs and systems of the body, with particular reference to the relationship between medical disorders and the oral manifestations of disease.

Text-book:

Kennedy, A. C., *Essentials of medicine for dental students* (Livingstone).

MS04 General Surgery.

A course of lectures and clinical demonstrations to illustrate the patterns of behaviour of surgical conditions, and the principles of their treatment.

Text-books:

Egdahl, R. H., and others, *Core textbook of surgery* (Grune and Stratton); OR

Elmslie, R. G., and Ludbrook, J., *An introduction to surgery: 100 topics*, 2nd edition (Heinemann).

DP04 Oral Pathology IV.

This is a continuation of DP03 Oral Pathology III.

A course of lectures, seminars and practical sessions extending over three terms.

The course considers the principles of diagnosis of oral lesions and deals with the pathology of diseases of the oral mucosa; deep infections; diseases of bone including osteodystrophies; oral neoplasms; diseases of the temporomandibular joint, salivary glands and nasal sinuses.

Text-books:

As for DP03 Oral Pathology III.

DH14 Periodontology IV.

Periodontology is the study of the tooth supporting tissues and of diseases that affect these structures. Instruction covers the recognition, prevention and treatment of periodontal disease and their relationship to other branches of dentistry.

The course of instruction continues through fourth and fifth years. It comprises lectures, seminars, tutorials and clinical practice.

The annual assessment in fourth year is based upon clinical performance, seminars and written papers.

Text-book:

Baer, P. N., and Morris, M. L., *Textbook of periodontics* (Lippincott).

DB24 Pharmacology and Therapeutics.

A course of instruction in the principles and application of pharmacology.

Text-books:

- Meyers, F. H., and others, *Review of medical pharmacology*, current edition (Lange); *OR*
- Goth, A., *Medical pharmacology*, current edition (Mosby); *OR*
- Bevan, J. A., *Essentials of pharmacology*, current edition (Hoebner).
- Cawson, R. A., and Spector, R. G., *Clinical pharmacology in dentistry*, current edition (Churchill Livingstone); *OR*
- Holroyd, S. V., *Clinical pharmacology in dental practice*, current edition (Mosby).

DR04 Restorative Dentistry IV.

The course extends over the dental clinical year of 32 weeks and it consists of lectures, demonstrations, laboratory work, clinical practice and tutorial instruction in conservative dentistry and removable prosthodontics. The course is designed to provide opportunities for students to gain experience in the simpler clinical procedures of operative dentistry and prosthodontics and to develop the theory and skills enabling them to undertake more complex restorative procedures.

CONSERVATIVE DENTISTRY:

Endodontics: Lectures and practical work on three sessions a week during the first three weeks of the year.

Crown and Bridge Prosthodontics: One lecture and one practical class a week through three terms.

Clinical Practice and Tutorials: Rostered attendance for clinical practice and tutorials dealing with operative dentistry timetabled on two sessions a week through three terms.

REMOVABLE PROSTHODONTICS:

The course consists of lectures, tutorials, demonstrations and laboratory and clinical practice in removable prosthodontics.

Text-books:

- Henderson, D., and Steffel, V. L., *McCracken's Removable partial prosthodontics* (Mosby).
- Ingle, J. I., *Endodontics* (Lea and Febiger).
- Johnston, J. F., and others, *Modern practice in crown and bridge prosthodontics* (Saunders).
- Shillingburg, H. T., and others, *Preparations for cast gold restorations* (Quintessence).
- Sharry, J. J., *Complete denture prosthodontics* (McGraw-Hill); *OR*
- Boucher, C. O., and others, *Prosthodontic treatment for edentulous patients*, 7th edition (Mosby).

Orthodontics.

A course of introductory lectures is given in fourth year. Students attend a series of practical laboratory sessions for instruction in the design and construction of removable orthodontic appliances. During clinical sessions the preparation of formal case presentations, detailing diagnosis and treatment planning, provides opportunities for active participation in the correction of simple malocclusions for selected patients. An assessment based on laboratory, clinical and written assignments is carried over as a pre-requisite of the fifth-year programme (DH35 Orthodontics).

Text-book:

- Graber, T. M., *Orthodontics: principles and practice*, 3rd edition (Saunders).

FINAL EXAMINATION (FIFTH YEAR).**DP25 Oral Medicine, Oral Diagnosis and Dental Radiology.****ORAL MEDICINE:**

This course extending over the final year deals with the principles of diagnosis of systemic and local diseases affecting the oral cavity, and instruction is given in the use of clinical and laboratory diagnostic procedures.

Methods of treatment of oral diseases are considered. Emphasis is placed on the effect of dental treatment on medical conditions, and on the management of patients with medical disorders undergoing dental treatment.

Text-books and reference books as for Oral Pathology III and IV plus the following:

Tyldesley, W. R., *A colour atlas of oral medicine* (Butterworth).

ORAL DIAGNOSIS:

Students in fourth and fifth years attend the Admissions Clinic of the Dental Department, R.A.H. During these sessions the overall as well as the immediate dental needs of the patient are considered and the alternative forms of treatment are discussed. The long-term effects of differing forms of emergency treatment are evaluated, and students are actively involved in the provision of primary dental care.

When patients present with special disorders of interest to dentistry, the relationship of the condition to general dental care, and preventive and community dentistry is reviewed, though such patients are referred to the appropriate special departments for more thorough investigation and treatment.

An assessment will be made of the student's clinical progress during fourth year. The mark obtained will contribute towards the assessment in Oral Diagnosis in fifth year, which will consist of written, practical or *viva voce* examinations based on material covered during the course.

Text-book:

Tyldesley, W. R., *Oral diagnosis*, 2nd edition (Pergamon).

DENTAL RADIOLOGY:

An integrated course is given over the third, fourth and fifth years which covers both theoretical and practical instruction in the basics of the subject.

A series of lectures and practical tuition in the third year serves as an introduction to the course. An initial assessment consisting of a short written examination will be held at the end of this course. The mark obtained will contribute towards the final assessment in Dental Radiology in fifth year. Fourth year teaching consists of a continuation of the practical tuition started in third year, with increasing emphasis on the clinical aspects of the subject. In fifth year a radiology project is required together with further practical experience. A series of Dental Radiology lectures is also given as part of the Oral Medicine and the Orthodontic courses. The final assessment will consist of written, practical or *viva voce* examinations based on material covered during the course.

Text-books:

Stafne, E. C., and Gibilisco, J. A., *Oral roentgenographic diagnosis*, 4th edition (Saunders); OR
Wuchrmann, A. H., and Manson-Hing, L. R., *Dental radiology*, 4th edition (Mosby).

DP15 Oral Surgery.

A series of lectures and clinical tutorials is given on the principles and practice of oral surgery and the use of local anaesthesia and general anaesthesia.

Clinical practice includes routine exodontia, minor oral surgery and elective oral surgery on out-patients, and observation of major oral surgery on patients admitted as in-patients to the Royal Adelaide Hospital on a theatre list. Instruction is included in the techniques of extra oral radiography and the interpretation of radiographs.

Text-book:

Moore, J. R., *Principles of oral surgery*, 2nd edition (Manchester U.P.).

DH35 Orthodontics.

Lectures and clinical instruction in the growth and development of the craniofacial complex. The recognition, diagnosis and treatment of malocclusion and associated anomalies of the jaws with orthodontic procedures.

Text-book:

Moyers, R. E., *Handbook of orthodontics*, 3rd edition (Year Book Med. Publ.).

DH15 Periodontology V.

The course is a continuation of DH14 Periodontology IV and extends over the clinical year of 32 weeks. Clinical and academic segments are taught and assessed.

Text-book:

Baer, P. N., and Morris, M. L., *Textbook of periodontics* (Lippincott).

DH25 Preventive Dentistry.

The course deals with the epidemiology of dental disease and its social implications; methods of control and treatment; the relation of dental disease to systemic disease, and the place of dentistry in public health programmes and their relevance to the community. It comprises lectures, tutorials and project assignments. Competence in clinical practice in paedodontics during the year is included in the overall assessment.

Text-book:

Dunning, J. M., *Principles of dental public health*, 3rd edition (Harvard U.P.).

DR05 Restorative Dentistry V.

The course extends over the dental clinical year of 32 weeks and consists of lectures, seminars, clinical practice and tutorial instruction. There are two lectures or seminars a week during the first and second terms. Students are rostered for clinical practice to the restorative dentistry clinics timetabled on five sessions a week throughout the year and to the radiology clinic timetabled on one session a week. Tutorials on specific problems of clinical practice are given throughout the year within the time allotted for clinical practice.

The aim of the course is to provide opportunities for students to receive additional training and clinical experience in the comprehensive dental care of patients and aspects of practice management which will fit them for unsupervised general practice on graduation.

Text-books:

Baum, L., *Advanced restorative dentistry—Modern materials and techniques* (Saunders).

Dunning, J. M., *Dental care for everyone* (Harvard U.P.).

Roberts, D. H., *Fixed bridge prosthesis* (Wright).

And those text-books listed under Restorative Dentistry II, III and IV.

DP35 Pain Control.

This course which commences in the third year is a fully integrated course encompassing the theoretical and practical tuition necessary for the student to become competent in the essential aspects of the management of apprehension and pain in all dental procedures.

THIRD YEAR:

Theoretical and practical tuition will cover the introductory psychology, physiology and pharmacology of pain control with detailed instruction in local anaesthesia.

Assessment consists of a short written examination at the end of the course. The mark obtained will contribute a maximum of 25% to the Final Examination (Fifth Year).

FIFTH YEAR:

Theoretical and practical tuition will cover the more advanced aspects of pain control including general anaesthesia, relative analgesia and intravenous sedation.

Assessment will consist of a written examination covering the work of both the third and fifth years.

Text-books:

- Mumford, J. M., *Toothache and related pain*, 2nd edition (Churchill Livingstone).
 Killey, H. C., and Kay, L. W., *The prevention of complications in dental surgery* (Livingstone).
 Roberts, D. H., and Sowray, J., *Local analgesia in dentistry*, 2nd edition (Wright).

Advanced Oral Biology.

A series of weekly lectures/seminars is held in the final term on an informal and elective basis. The subject material is flexible and is largely arranged by consultation with students. Generally topics in advanced pharmacology, immunology, periodontal disease, caries, growth and development are considered in relation to the students' experience to date and the latest developments in these fields.

Principles of Dental Practice.

A short course of lectures is given early in the final year on dental jurisprudence, dental ethics and dental practice administration.

OF THE HONOURS DEGREE OF
BACHELOR OF SCIENCE IN DENTISTRY
REGULATIONS

1. There shall be an Honours degree of Bachelor of Science in Dentistry. Subject to these regulations a candidate may proceed to the degree by undertaking a course of study in one of the following:

- (a) Anatomy
- (b) Biochemistry
- (c) Dental Health
- (d) Genetics
- (e) Histology
- (f) Materials Science
- (g) Microbiology
- (h) Oral Biology
- (i) Oral Pathology
- (j) Oral Surgery
- (k) Pathology
- (l) Pharmacology
- (m) Physiology
- (n) Restorative Dentistry

2. Before entering upon the course of study for the degree a candidate must:

- (a) have completed the pre-requisite work, or work accepted by the Faculty of Dentistry as appropriate for the proposed course of study; and
- (b) be deemed by the Head of the department concerned to be a suitable candidate for advanced work.

3. To qualify for the degree a candidate shall undertake advanced study extending over one academic year as a full-time candidate, or with the approval of the Faculty of Dentistry, over a period of not more than two academic years as a half-time candidate, in one of the courses listed in regulation 1, and satisfy the examiners therein at the first attempt.

4. Schedules defining the pre-requisite work, the course of study, including lectures, laboratory and other practical work to be undertaken, and the examinations to be passed, shall be drawn up by the Faculty of Dentistry, and submitted to the Council. Such schedules shall become effective from the date of approval by the Council or such other date as the Council may determine, and shall be published in the next University Calendar issued after that approval has been given.

5. The candidate shall enter for the examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has regularly attended the prescribed lectures and has done written and laboratory or other practical work, where required, to the satisfaction of the Head of the department(s) concerned.

6. The names of the candidates who qualify for the degree shall be published in alphabetical order within the following classes and divisions in each subject:

- First Class
- Second Class
 - Division A
 - Division B
- Third Class.

7. A person who holds the Honours degree of Bachelor of Dental Surgery of the University of Adelaide may, on application to the Academic Registrar, be admitted to the Honours degree of Bachelor of Science in Dentistry, provided:

- (a) that he first surrender the Honours degree of Bachelor of Dental Surgery; and
- (b) that if he has not already been admitted to the Ordinary degree of Bachelor of Dental Surgery he shall be admitted also to that degree.

Regulations allowed 28 February, 1974.
Amended: 23 Jan. 1975: 7; 15 Jan. 1976: 4.

NOTE (not forming part of the regulations): A candidate permitted to undertake a course over two academic years must be able to devote half of his normal working time to his studies exclusive of evenings and weekends.

OF THE HONOURS DEGREE OF

BACHELOR OF SCIENCE IN DENTISTRY

SCHEDULES

(Made by the Council under regulation 4.)

SCHEDULE I: PRE-REQUISITE WORK

The pre-requisite work for admission to the courses listed in regulation 1 shall be as follows:

| | |
|------------------------------------|---------------------------|
| MA89 Honours Anatomy and Histology | DB99 Honours Oral Biology |
| SY79 Honours Biochemistry | MP89 Honours Pathology |
| NH59 Honours Materials Science | MR49 Honours Pharmacology |
| SK79 Honours Microbiology | SS39 Honours Physiology |

- A pass in the Third Annual Examination for the degree of Bachelor of Dental Surgery.

| | |
|-----------------------------|------------------------------------|
| DH99 Honours Dental Health | DP79 Honours Oral Surgery |
| DP89 Honours Oral Pathology | DR99 Honours Restorative Dentistry |

- A pass in the Final Examination for the degree of Bachelor of Dental Surgery.

SJ69 Honours Genetics

A pass in the Third Annual Examination for the degree of Bachelor of Dental Surgery and a pass in the subject SJ02 Genetics II as prescribed for the degree of Bachelor of Science.

SCHEDULE II: COURSES OF STUDY

A course of study will consist of such of the following as may be required:

- (a) reading in selected fields and submissions of essays;
- (b) attendance at lectures;
- (c) practical work; and
- (d) the undertaking of a research investigation on a topic assigned early in the course.

SCHEDULE III: EXAMINATIONS

The examination for the degree may consist of such written, oral and practical examinations as may be required. Assessments of any essays submitted by the candidate, practical work completed during the course, and the report on a research investigation may be taken into account.

OF THE HONOURS DEGREE OF
BACHELOR OF SCIENCE IN DENTISTRY
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

**HONOURS DEGREE OF BACHELOR OF
SCIENCE IN DENTISTRY**

The following courses are available:

DB99 Honours Oral Biology.

Candidates may, with the approval of the Chairman of the Department, enrol in the Oral Biology Honours programmes after they have successfully completed the third year of the B.D.S. Ordinary degree or after they have obtained the Ordinary degree of B.D.S. or its equivalent.

Under certain circumstances candidates who have obtained the Ordinary degree of B.Sc. may be admitted to an honours programme in Oral Biology.

Candidates will be expected to nominate one of the following disciplines as their major subject: Anatomy, Genetics, Histology, Immunology, Pharmacology, Physiology, Microbiology, Pathology.

All candidates will be required to undertake on a full-time basis for one year (unless otherwise determined by the Chairman of the Department) a special course of study, including essays, seminars and laboratory work and a research project under the supervision of staff members of the Department. This project will provide the basis of a research report. Prescribed reading lists provided by the Department will be given to prospective candidates during the long vacation prior to the Honours year.

A candidate may be required to undertake such formal courses of study in related subjects as deemed necessary in each case.

DH99 Honours Dental Health.

Candidates may choose one of the sections of Dental Health as a principal subject. The course will begin in the first week of February or earlier and will consist of lectures, tutorials, practical work and reading in advanced aspects of the principal subject and related subjects as prescribed by the Chairman of the Department. Candidates will be required to participate in a research investigation under the direction and supervision of a member of staff and to submit a report on a topic assigned early in the course. A reading list will be provided and candidates will be expected to begin the course of reading during the long vacation prior to the Honours year. Prospective candidates are advised to consult the Chairman of the Department as early as possible in the year preceding the Honours year.

DP79 Honours Oral Surgery.

Candidates may choose some area of Oral Surgery. Attendance will be required at prescribed lectures in subjects related to oral surgery such as Anatomy and General Pathology. A minor research project will be undertaken on which a research report will be written.

The course is designed to further a student's knowledge in the relevant subjects and to train him in laboratory research techniques and experimental methodology.

Prospective candidates are advised to contact the Chairman of the Department in the year preceding the proposed Honours year.

DP89 Honours Oral Pathology.

Candidates may choose some aspect of Oral Pathology or some other area of clinical dentistry.

The course will begin in the first week of February and will require attendance at prescribed lectures in subjects related to oral pathology, such as Anatomy, Physiology and General Pathology. A minor research project will be undertaken on which a research report will be written.

The course is designed to further a student's knowledge in the relevant subjects and to train him in laboratory research techniques and methods of recording the results of experiments.

Prospective candidates are advised to consult the Chairman of the Department in the year preceding the Honours year.

DR99 Honours Restorative Dentistry.

Candidates may choose one of the sections of restorative dentistry as a principal subject. The course will begin in the first week of February and will consist of lectures, tutorials, practical work and reading in advanced aspects of the principal subject and related subjects as prescribed by the Chairman of the Department. Candidates will be required to participate in a research investigation under the direction and supervision of a member of staff and to submit a report on a topic assigned early in the course. A reading list will be provided and candidates will be expected to begin the course of reading during the long vacation prior to the Honours year. Prospective candidates are advised to consult the Chairman of the Department in the year preceding the Honours year.

SK79 Honours Microbiology (B.Sc.Dent.).

Candidates may choose one of two fields, Molecular Biology or Immunology. The course will begin in February and consists of seminars, tutorials and a research project under the supervision of a member of staff. A detailed reading list will be provided and candidates should begin the course of reading during the long vacation prior to the Honours year. Prospective candidates are advised to consult the Head of the Department in the year preceding the Honours year.

SY79 Honours Biochemistry (B.Sc.Dent.).

Intending students should consult the Head of the Department. The course will consist of a research project under the supervision of a member of the Department of Biochemistry, together with such reading and participation in lectures and seminars and other work as shall be prescribed by the Head of the Department. A candidate for the degree will be required to write a thesis on his research and pass such examinations as shall be prescribed by the Head of the Department.

MA89 Honours Anatomy and Histology (B.Sc.Dent.).

The course includes seminars, reading and essay preparation in any anatomical discipline such as gross anatomy, neurobiology, histology, cytology or embryology. Emphasis is placed on the relation of structure to function. A candidate is expected to study one topic in depth. He would normally undertake a research project on this topic under the supervision of a member of staff and would be required to submit a written report on this work.

Candidates should consult the Chairman of the Department before undertaking the course.

MP89 Honours Pathology (B.Sc.Dent.).

NH59 Honours Materials Science (B.Sc.Dent.).

SJ69 Honours Genetics (B.Sc.Dent.).

SS39 Honours Physiology (B.Sc.Dent.).

MR49 Honours Pharmacology (B.Sc.Dent.).

Prospective students should consult the appropriate Head/Chairman of Department in the year preceding that in which they wish to take the course.

OF THE DEGREE OF
MASTER OF DENTAL SURGERY
REGULATIONS

1. (a) The Faculty of Dentistry may accept as a candidate for the degree any person who:

- (i) has qualified in the University of Adelaide for the degree of Bachelor of Dental Surgery and for the Honours degree of Bachelor of Science in Dentistry with First or Second Class Honours;
- (ii) has qualified in another university for a degree or degrees which the Faculty regards as equivalent to those degrees specified in sub-section (i) hereof; or
- (iii) has qualified for a degree in dentistry and whose qualifications are regarded by the Faculty as equivalent to those specified in sub-section (i) hereof.

(b) The Faculty of Dentistry may accept provisionally as a candidate for the degree any other person who has qualified for a degree in dentistry of the University of Adelaide or of another university and who satisfies the Faculty that he is a suitable candidate for advanced work.

(c) With the approval of the Council, the Faculty may accept as a candidate for the degree, provisionally or otherwise, and subject to such conditions as it may see fit to impose, a person who does not hold a degree of a university but holds a dental qualification for which he has followed a course of study acceptable to the Faculty and who satisfies the Faculty that he is a suitable candidate for advanced work.

* (d) (i) A candidate accepted provisionally shall pass a qualifying examination before his acceptance as a candidate will be confirmed. The provisional candidature of a candidate who fails the qualifying examination at the first attempt shall be cancelled unless the Faculty decides otherwise.

(ii) The Faculty shall approve the scope of any qualifying examination under regulation 1(d) and the means by which it shall be conducted. The Faculty may require a candidate to undertake such course of advanced study as it sees fit, before he sits for the qualifying examination.

(e) A candidate shall not be admitted to the degree before the expiration of one year from his admission to a degree specified in section (a) above or the expiration of two years from his admission to the degree or other qualification accepted by the Faculty under sections (b) or (c) above.

2. To qualify for the degree a candidate shall either:

- (a) complete satisfactorily an approved programme of research work and submit a satisfactory thesis thereon; or
- (b) (i) pass an examination set after completion of an approved course of post-graduate study in the University; and
- (ii) complete satisfactorily an approved research project and submit a satisfactory report thereon;

provided that a candidate accepted provisionally shall first pass the qualifying examination as required under regulation 1(d) above.

3. (a) A person who wishes to become a candidate for the degree shall apply to the Academic Registrar indicating in general terms the subject and outline of his proposed research or investigation and where applicable his proposed course of study for examination.

*NOTE (not forming part of the regulations): It is the intention of the Faculty of Dentistry that candidates who have qualified for the Honours degree of Bachelor of Dental Surgery (before 1974) or the Honours degree of Bachelor of Science in Dentistry shall have qualified with First or Second Class Honours. A qualifying examination will be at the same standard as that for the Honours degree of Bachelor of Science in Dentistry for which one year of full-time study is normally the required preparation. Any course of advanced study prescribed under 1(d) (ii) will be designed to ensure that the candidate has had equivalent preparation.

- (b) For each candidate, including a candidate accepted provisionally, the Faculty shall appoint a supervisor or supervisors to guide him in his work.
4. Unless the Faculty expressly approve an extension of time in a particular case, the work for the degree shall be completed and the thesis or research report submitted:
- (a) in the case of a full-time candidate, not less than one academic year or more than three academic years from the date of admission to candidature, or date of confirmation of candidature if accepted provisionally, under regulation 1; or
 - (b) in the case of a half-time candidate, who is able to devote at least half of his time to the approved programme of work for the degree as prescribed in regulation 2, not less than two academic years or more than five academic years from the date of admission to candidature, or date of confirmation of candidature if accepted provisionally, under regulation 1.
5. A candidate's progress shall be reviewed by the Faculty at the end of each academic year. If, in the opinion of the Faculty, a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate the candidature.
6. (a) On completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis or research report which shall be prepared in accordance with directions given from time to time.*
- (b) The Faculty shall nominate examiners of the thesis or research report, one of whom may be an external examiner.
 - (c) The examiners may recommend that a candidate by thesis under regulation 2(a) be examined orally or otherwise on the subject of his thesis and the general field of knowledge in which it falls.
7. (a) For each candidate the Faculty shall appoint a Master's Examination Committee which shall:
- (i) recommend the appointment of examiners under regulation 6(b);
 - (ii) consider the reports of the examiners of the thesis or research report and the results of any examination;
 - (iii) recommend the appointment of examiners
 - a. to examine a candidate proceeding under regulation 2(b);
 - b. to examine a candidate under regulation 6(c) if it concurs with a recommendation by the examiners under that regulation; and
 - c. to examine a candidate accepted provisionally, under regulation 1(d)(i).
- (b) The Master's Examination Committee may recommend that the candidate:
- (i) be awarded the degree subject to such minor amendments of the thesis or research report as the examiners may have suggested;
 - (ii) be not awarded the degree but be allowed to revise and resubmit the thesis or research report within such period as the Faculty may allow; or
 - (iii) be not awarded the degree.
8. A candidate who complies with the foregoing conditions and satisfies the Board of Examiners shall, on the recommendation of the Faculty, be awarded the degree of Master of Dental Surgery.
9. All regulations hitherto in force concerning the degree of Master of Dental Surgery are hereby repealed. Candidates enrolled for the degree under the regulations hereby repealed may *either*:
- (a) complete the requirements of the degree under those regulations, provided that they do so by 31 December, 1974;
 - (b) be granted such status under these regulations as the Council, on the recommendation of the Faculty of Dentistry, shall decide.

Regulations allowed 16 December, 1971

Amended: 28 Feb. 1974: 1; 2 Feb. 1978: 4; 8 Feb. 1979: 2; 31 Jan. 1980: 4; Awaiting allowance: 7.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF
DOCTOR OF DENTAL SCIENCE
REGULATIONS

1. A candidate for the degree of Doctor of Dental Science shall not be admitted to the degree until the expiration of at least four years from his admission to the degree of Bachelor of Dental Surgery in the University of Adelaide: Provided that, in the case of a graduate in dentistry of another university who has been admitted *ad eundem gradum* in the University of Adelaide, the period of four years shall be reckoned from the date of his first graduation in dentistry.
2. Except in special cases approved by the Council only persons who have been admitted to the degree of Master of Dental Surgery may become candidates for the degree of Doctor of Dental Science.
3. To qualify for the degree a candidate shall submit a satisfactory thesis embodying the results of original research or investigation by the candidate on a subject approved by the Faculty of Dentistry. The thesis may be written specially for the degree, or may be an already published work, or may be a series of papers. It shall not be a compilation from books, nor a mere compendium of cases, nor merely observational. The candidate shall indicate in a preface or in a separate statement wherein he considers that it advances dental knowledge or practice, and shall furnish a history of the progress of dental knowledge in the subject of the thesis. A candidate may be required to undergo examination in the subject matter of, or in subjects cognate to, his thesis.
4. The degree shall not be awarded unless in the opinion of the examiners the thesis makes an original and substantial contribution to knowledge in some branch of Dental Science.
5. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.
6. On receipt of the reports of the examiners appointed to adjudicate upon the thesis the Faculty of Dentistry will recommend whether the degree be granted or withheld or delayed.
7. Notwithstanding anything contained in the preceding regulations, the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to some branch of dental science.

Regulations allowed 10 December, 1942.

Amended: 16 Mar, 1961: 5; 15 Jan, 1976: 7.

FACULTY OF ECONOMICS

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

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OF THE DEGREE OF

BACHELOR OF ECONOMICS

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Economics. A candidate may obtain either degree or both.

2. The course of study for the Ordinary degree shall extend over three years and that for the Honours degree over four years. A candidate for the Ordinary degree shall attend lectures and pass examinations in accordance with the provisions of schedule II; a candidate for the Honours degree shall attend lectures and pass examinations in accordance with the provisions of schedule III.

3. The names of candidates who pass at an annual examination in any subject or division of a subject for the Ordinary degree shall be published in alphabetical order in the following classifications:

Pass with Distinction

Pass with Credit

Pass.

If the pass lists be published in two divisions, a pass in the higher division may be prescribed in the syllabuses as a pre-requisite for admission either to further courses in that subject or to other subjects.

4. The names of candidates who qualify for the Honours degree shall be published in alphabetical order within the following classes and divisions:

First Class

Second Class

Division A

Division B

Third Class

A candidate who fails to obtain Honours may be awarded the Ordinary degree provided that he has in all other respects completed the work for the Honours degree.

5. No graduate who has obtained the Honours degree of Bachelor of Arts in the School of Economics may obtain the Honours degree of Bachelor of Economics.

6. Except by permission of the Faculty a candidate shall not proceed to a subject for which he has not completed the pre-requisite subjects or preparatory work as prescribed in the syllabuses.

7. A candidate shall do such written or practical work in any subject as may be prescribed by the professor or lecturer concerned.

8. The annual examinations shall be held towards the end of each academic year. A candidate shall enter for examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has attended such tutorials and seminars, and has done such written or other work as may be required, to the satisfaction of the professors and lecturers concerned.

9. Written or practical work done by candidates by direction of the professor or lecturer concerned and the results of terminal or other examinations held during the year may be taken into consideration at the final examination in any subject.

10. A candidate who fails to pass in any subject shall again attend tutorials and seminars and do written or practical work in that subject to the satisfaction of the professor or lecturer concerned, unless granted exemption from doing so by the Faculty.

B.E.C.
REGULATIONS

11. A candidate who has twice failed to pass the annual examination in any subject or division of a subject may not present himself again for instruction or examination therein unless his plan of study is approved by the Dean. If he fails a third time he may not proceed with the subject again except by special permission of the Faculty and under such conditions as the Faculty may prescribe.

For the purpose of this regulation a candidate who has failed to comply with the provisions of regulation 8 shall be deemed to have failed to pass the examination.

12. A candidate who has passed equivalent examinations in the University or otherwise and who desires that the examinations which he has passed should be counted *pro tanto* for the degree of Bachelor of Economics, may, on written application, be granted such exemption from the requirements of these regulations as the Council may determine.

13. A graduate in another faculty who wishes to proceed to the degree of Bachelor of Economics:

- (a) may be granted status in up to three subjects, or their equivalent, which he has already presented for another degree or in which he has been granted status or exemption on account of work done for another degree; except that a graduate who has included in his previous degree subjects which are compulsory for the Economics degree, may be granted status in up to four subjects;
- (b) shall present a range of subjects which fulfils in all respects the requirements of the schedules made under regulation 15 below;
- (c) shall present two third-year subjects or their equivalent not presented for another degree.

A candidate who holds a diploma may be granted such status in the course for the degree of Bachelor of Economics as the Faculty shall in each case determine; provided that if status be granted for more than four subjects the candidate shall surrender his diploma before being admitted to the degree.

14. If in any year the number of students desiring to attend lectures in any subject be fewer than a minimum fixed by the Council, the course of lectures in that subject may be suspended for that year.

15. Schedules defining the course of study, including lectures and practical work to be undertaken, and the examinations to be passed, shall be drawn up by the Faculty of Economics and be submitted to and approved by the Council. Such schedules shall become effective as from the date of approval by the Council or such other date as the Council may determine and shall be published in the next University calendar which is issued after that approval has been given.

Regulations allowed 17 January, 1952.
Amended: 20 Dec. 1956: 8, 10; 4 Oct. 1962: 13; 4 Apr. 1963: 13; 4 Nov. 1965: 2, 13; 24 Dec. 1969: 8, 10; 16 Dec. 1971: 3, 13; 15 Jan. 1976: 15; Awaiting allowance: 13.

OF THE DEGREE OF
BACHELOR OF ECONOMICS
SCHEDULES

(Made by the Council under regulations 2 and 15.)

NOTE: Syllabuses of subjects for the degree of B.Ec. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: GENERAL

1. The following may be presented for the Ordinary degree:

(a) **ECONOMICS AND COMMERCE SUBJECTS AND HALF-SUBJECTS**

Subjects

| | |
|-------------------------------|-------------------------------|
| EC01 Accounting I | EE22 Economic Statistics II |
| EC02 Accounting II | EE32 Economic Statistics IIA |
| EC03 Accounting III | EE11 Economics I |
| LL92 Commercial Law IIA§ | EE33 Economics IIIA |
| EE13 Economic Development III | EC23 Industrial Sociology III |

Half-subjects: First-year

| | |
|------------------------------------|--|
| LL2H Commercial Law IH | EE4F Economic History IH |
| EE1G Macroeconomics IH* | EE5F Economic Institutions and Policy IH |
| EE1F Mathematics for Economists IH | EE2G Microeconomics IH* |
| EE2F Mathematical Economics IH | |

Half-subjects: Second-year

| | |
|-------------------------------|----------------------------------|
| LL3H Commercial Law IIIH | EE3F Mathematical Economics IIIH |
| EE6F Economic History IIIH(A) | EE4G Microeconomics IIIH |
| EE7F Economic History IIIH(B) | LL1H Income Tax IIIH |
| EE3G Macroeconomics IIIH | |

Half-subjects: Third-Year**

| | |
|---|---|
| EE4H Agricultural Economics IIIH | EE9G Economics of Antitrust and Regulation IIIH |
| EC4H Business Finance IIIH | EE3H Economics of Labour IIIH |
| EC1G Computerised Accounting and Systems IIIH | EC2G Management Decision Analysis IIIH |
| EE8H Econometrics IIIH | EE7H Managerial Economics IIIH |
| AJ9H Economic Geography IIIH | EC5H Marketing IIIH |
| EE8G Economic History IIIH | EE9H Mathematical Economics IIIH |
| EE8F Economic Theory IIIH | EE2H Public Finance IIIH |

(b) **ARTS SUBJECTS AND HALF-SUBJECTS**

Such of the subjects and half-subjects set out in schedule I of the regulations of the degree of B.A., as are not included in the list of Economics and Commerce subjects and half-subjects above.†

*The half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH are available only to students who have passed one of these half subjects prior to 1981.

**Not all half subjects will be offered every year.

†See Table of Contents for schedule I of the degree of B.A.

§Available only to students who first enrolled for the B.Ec. course prior to 1979.

(c) No candidate will be permitted to count for the degree any subject or half-subject together with any other subject or half-subject which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject, or half-subject, may be counted twice towards the degree.**

(d) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

(e) A candidate may present QT02 Mathematical Statistics II in place of EE32 Economic Statistics IIA.

2. Courses of study must be approved by the Dean (or his nominee) at enrolment each year.

3. Candidates who have completed subjects for the degree under previous schedules may continue under the schedules then in force, with such modifications (if any) as shall be prescribed by the Dean.

4. For the purpose of completing the requirements of the degree, a candidate shall not, except with permission of the Faculty, retain credit for any subject or half-subject for more than ten years.

5. A candidate who has presented himself for the annual examinations in any subject may, at the discretion of the examiners, be required subsequently to present himself for an additional examination, which may be either oral or written; and his results at such an additional examination shall be taken into account in determining his results at the annual examination.

SCHEDULE II: THE ORDINARY DEGREE

A candidate for the Ordinary degree shall pass in seven subjects and six half-subjects or the equivalent.

1. (a) (i) EE11 Economics I.
(ii) EE1G Macroeconomics IH*.
(iii) EE2G Microeconomics IH*.
(b) EE2F Mathematical Economics IH or EE1F Mathematics for Economists IH and another half-subject from clause 1(a) of schedule I or another subject or two half-subjects approved by the Dean.
(c) EC01 Accounting I.
(d) Another subject or two half-subjects from schedule I which may be first-year subjects or half-subjects.
2. (a) (i) EE3G Macroeconomics IIIH.
(ii) EE4G Microeconomics IIIH.
(b) EE22 Economic Statistics II or EE32 Economic Statistics IIA.
(c) Another subject or two half-subjects from schedule I which may not be first-year subjects or half-subjects.
3. (a) EE33 Economics IIIA.
(b) Another third-year subject or two third-year half-subjects from clause 1(a) of schedule I or, in special cases approved by the Dean, another subject.
(c) Another second or third-year subject or two second or third-year half-subjects from clause 1(a) of schedule I or another subject or two half-subjects from clause 1(b) of schedule I which may not be first-year subjects or half-subjects nor, except in special cases approved by the Dean, second-year subjects or half-subjects. (Except with permission of the Dean, a candidate who wishes to proceed to Honours must in this section take EE8F Economic Theory IIIH and another third-year half-subject. If presented for the Ordinary degree, EE8F Economic Theory IIIH shall be counted *in lieu* of a third-year half-subject.)

*The half-subjects EE1G Macroeconomics IH and EE2G Microeconomics IH are available only to students who have passed one of these half-subjects prior to 1981.

**A table of unacceptable combinations of subjects and half-subjects is given towards the end of this Volume (see Table of Contents).

NOTES (not forming part of the schedules): Students taking subject 1(b) will be permitted to take any full subject or two half-subjects from schedule I, but are advised that a knowledge of mathematics is helpful for economics and commerce courses and is essential for some second- and third-year options.

A student may count towards his degree both EC02 Accounting II and two of the half-subjects EE6F Economic History I(H)(A), EE7F Economic History I(H)(B) and EE3F Mathematical Economics I(H), if one is counted as subject 2(c) and the other as subject 3(c).

Second- and third-year optional subjects and half-subjects except EC01 Accounting I, EC02 Accounting II and EC03 Accounting III, will be offered subject to the availability of staff and sufficient enrolments.

Work required to complete an Adelaide degree

To qualify for the degree of Bachelor of Economics a student granted status under regulation 12 or 13 must pass at least the equivalent of a full year's work from subjects taught in the Departments of Economics or Commerce at the University of Adelaide and this must include at least two third-year half-subjects (or the equivalent) which could be counted towards clause 3(a) or, with the permission of the Dean, clause 3(b) of schedule II of the degree.

A candidate for the degree of Bachelor of Economics of the University, who wishes to complete his degree elsewhere, must (i) have already completed EE33 Economics IIIA; and (ii) arrange through the Academic Registrar for his proposed scheme of study elsewhere to be approved in advance by the Faculty.

Study for the degrees of LL.B. and B.Ec. concurrently

Candidates who wish to study for the degrees of LL.B. and B.Ec. concurrently must take all of the subjects prescribed for the LL.B. degree and subjects in the B.Ec. degree which satisfy clauses 1(a), 1(b), 1(c), 2(a), 2(b), 3(a) and 3(b) of schedule II. They should consult the Course Advisers for both courses to determine the scheme most appropriate to their needs, given the time-table and relevant pre-requisites.

SCHEDULE III: THE HONOURS DEGREE

A candidate for the Honours degree shall:

1. Except as provided in clause 2 of schedule 1, pass in five subjects and four half-subjects or their equivalent as prescribed for the Ordinary degree under clauses 1 and 2 of schedule II and complete the requirements of the Ordinary degree by passing in:

- (a) EE33 Economics IIIA.
- (b) EE13 Economic Development III or two third-year half-subjects from clause 1(a) of schedule I or in special cases approved by the Dean, another subject or two half-subjects from clause 1(a) of schedule I, not being a first-year subject nor half-subject, which is part of a group of closely related subjects and which would lead to a suitable set of options in fourth year.
- (c) (i) EE8F Economic Theory IIIH.
(ii) A third-year half-subject from schedule I.

2. The work of the Final Honours year must be completed in one year of full-time study, save that on the recommendation of the Dean, the Faculty may permit a candidate to spread the work over two years, but not more, under such conditions as it may determine.

OF THE DEGREE OF
BACHELOR OF ECONOMICS
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *visa voce* examinations).

ECONOMICS

The main courses in Economics forming a sequence for the degrees of Bachelor of Agricultural Science, Bachelor of Arts and Bachelor of Economics are the subject EE11 Economics I, the half-subjects EE3G Macroeconomics IIH and EE4G Microeconomics IIH, and the subject EE33 Economics IIIA.

Students who have passed with credit in EE71 Social Economics I may, with the approval of the Dean of the Faculty of Economics, enrol in EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

The compulsory first, second, and third-year subjects and half-subjects are given annually, lectures in the second- and third-year subjects being given alternately as day and evening classes. Other third-year half-subjects may not be offered every year, but, as far as possible, a selection will be given each year as evening lectures.

It is proposed at present to give these lectures as follows:

| | 1981 | 1982 | 1983 |
|-------------------------|--------------------|--------------------|--------------------|
| EE11 Economics I | Day and Evening | Day and Evening | Day and Evening |
| EE3G Macroeconomics IIH | Day | Evening | Day |
| EE4G Microeconomics IIH | Evening | Day | Evening |
| EE33 Economics IIIA | Day | Evening | Day |

This arrangement will permit a student to complete these subjects in successive years as a sequence either of day or of evening lectures, according to the year in which he commences.

FIRST-YEAR SUBJECT AND HALF-SUBJECTS.**EE11 Economics I.**

No pre-requisite subjects. (Students who have previously successfully completed only one of EE1G Macroeconomics IH or EE2G Microeconomics IH should consult with the Chairman of the Department of Economics concerning completion of the first-year core economics requirement.)

The course consists of two lectures plus one tutorial each week throughout the academic year.

This course provides an introduction to the basic principles of economic analysis, illustrates the economists' approach to economic and social issues through appropriately chosen applications, and outlines the important features of the Australian economy. The subject-matter encompasses microeconomic principles and applications (i.e., analysis of the role of the market mechanism in allocating resources in the economy and the objectives and implications of various kinds of government policies affecting that mechanism), macroeconomic principles and applications (i.e., analysis of the forces determining the aggregate level of economic activity and the formulation of economic policies designed to influence economic activity) and a variety of issues that may straddle these two main branches of economic analysis (e.g., trade and development issues, and income inequality problems).

Text-books:

To be advised.

EE1G Macroeconomics IH.

This half-subject is available only to students who have successfully completed EE2G Microeconomics IH prior to 1981, except for students enrolled in the Faculty of Agricultural Science or the Faculty of Engineering (Civil Engineering) who may enrol in this half-subject without having previously completed EE2G Microeconomics IH but only if they are not also including EE2G Microeconomics IH in their course of study in 1981 or later years. The course will be taught in association with the subject EE71 Social Economics.

The course consists of one lecture a week and one tutorial a fortnight throughout the year.

The course provides an introductory study of the theory of short run fluctuations in the level of employment and production for the economy as a whole. It also provides, in an introductory way, an account of the way that money, debt, borrowing and lending relate to production, investment and saving. The impact of governments and international trade on the level of production and income is examined. A preliminary study is made of the determination of the general level of prices.

Text-books:

To be advised.

EE2G Microeconomics IH.

This half-subject is available only to students who have successfully completed EE1G Macroeconomics IH prior to 1981, except for students enrolled in the Faculty of Agricultural Science or the Faculty of Engineering (Civil Engineering) who may enrol in this half-subject without having previously completed EE1G Macroeconomics IH but only if they are not also including EE1G Macroeconomics IH in their course of study in 1981 or later years. The course will be taught in association with the subject EE71 Social Economics.

The course consists of one lecture a week and one tutorial a fortnight throughout the year. The course is offered in both evening and day lectures.

This course is concerned primarily with the theory of price, developed through consideration of the behaviour of individual consumers and firms in a 'mixed-capitalist' economy. Emphasis is given to theories of consumer behaviour, real world applications of the theory of price (such as price control, sales tax and price support arrangements in agriculture), production economics and the pricing and output behaviour of firms operating under different forms of industrial organisation.

Text-books:

To be advised.

EE1F Mathematics for Economists IH.

This course is designed for students who have not taken Mathematics at Matriculation level, and who wish to obtain a knowledge of mathematical techniques suitable for economic analysis, but who do not wish to proceed with further study of mathematics. Students are required to be taking concurrently EE1I Economics I or to have done, EE1G Macroeconomics IH and EE2G Microeconomics IH.

This half-subject is offered as two lectures a week for the first two terms and one lecture a week for third term. There is one tutorial a week. The course is given as day lectures in even years and as evening lectures in odd years.

The course comprises introductory calculus, analysis and matrix algebra with applications to economic problems.

Text-book:

Leonard, D., *Mathematical methods in accountancy, economics and finance* (Prentice Hall).

EE2F Mathematical Economics IH.

A knowledge of Matriculation Mathematics IS is assumed (Matriculation Mathematics I and II would also provide a suitable background).

This half-subject is offered as one lecture a week in first term and two lectures a week in second and third terms. There is one tutorial a week.

This course develops mathematical techniques particularly suitable for use in economic analysis. The main emphasis will be on calculus of several variables, integral calculus, matrix algebra, differential and difference equations, and an introduction to linear programming, with applications of each to economic problems.

Text-books:

Chiang, A. C., *Fundamental methods of mathematical economics*, 2nd edition (McGraw-Hill).

Draper, J. E., and Klingman, J. S., *Mathematical analysis: business and economic applications*, 2nd edition (Harper and Row); OR

Weber, J. E. Draper, *Mathematical analysis: business and economic applications*, 3rd edition (Harper and Row). Note: this is an updated version of Draper and Klingman, by the married first author.

Dowling, E. T., *Mathematics for economists* (Shaum outline series, McGraw-Hill).

EE4F Economic History IH.

No pre-requisite subjects.

The course consists of one lecture a week and one tutorial a fortnight.

Economic historians are concerned with those features, patterns and processes of economic change over time which are (or may be) described as economic growth and development; and with the explanation of them. This course considers specifically the causes, nature, spread and implications of the process of industrialisation (the most distinctive aspect of economic change in the modern world), from its beginnings in Britain in the 18th century, and it traces the actual historical experience of Britain in the industrialising world during the 19th and into the 20th century.

(This course provides a useful basis for studies of Australian, Russian and American economic history in second and third years.)

Preliminary reading:

Heilbroner, R. L., *The making of economic society*, 5th edition (Prentice-Hall).

Hill, C., *Reformation to industrial revolution* (Pelican).

Hobsbawm, E. J., *Industry and Empire* (Pelican).

Text-books:

Hughes, Jonathan, *Industrialization and economic history! Theses and conjectures* (McGraw-Hill).

Mathias, P., *The first industrial nation* (Methuen).

Additional references will be prescribed during the course.

EE5F Economic Institutions and Policy IH.

Pre-requisite subjects: Concurrent enrolment in EE11 Economics I or EE71 Social Economics I, or permission from the lecturer in charge.

The course consists of one lecture a week and one tutorial a fortnight throughout the year.

The course is designed to give students a knowledge of the development and operation of some of the major economic institutions in Australia. As a background to Australian political economy we look at the contributions of some of the great economists, both past and present. The course also examines the functions and performance of institutions such as the Arbitration Commission, the Trade Practices Commission, the Prices Justification Tribunal, government-funded education and social welfare programmes and the operation of the major monetary institutions in Australia. For example, the role of the Industries Assistance Commission is viewed in terms of the structural changes taking place in the Australian economy. Lectures will be given on the division of financial responsibility between the Commonwealth and the States and their relationship with local government, with emphasis upon specific aspects, such as housing, transport and urban development.

Preliminary reading:

To be prescribed by the lecturers.

Additional references will be prescribed by the lecturers.

SECOND-YEAR SUBJECTS AND HALF-SUBJECTS.

EE3G Macroeconomics IH.

Pre-requisite subject: Pass in EE1G Macroeconomics IH and achievement of an acceptable standard in EE2G Microeconomics IH. Students in faculties other than Economics who have passed with credit in EE71 Social Economics I may, with the approval of the Dean of the Faculty of Economics, be permitted to enrol in the two second year half-subjects EE3G Macroeconomics IH and EE4G Microeconomics IH.

EE3G Macroeconomics IH is given as day lectures in odd years and as evening lectures in even years. It comprises one lecture a week and one tutorial fortnightly.

This course expands the EE1G Macroeconomics IH analysis by introducing the monetary sector and the general level of prices. In this course we examine first the operations of the major financial institutions, and the role of money and finance in economic activity. This material is then integrated with the first-year macroeconomic analysis to make a more comprehensive model of an economy. The model is used to analyse the quantity theory of money, inflation and the role of inflation expectations. The role of monetary policy is examined as an instrument of demand management.

Preliminary reading:

- Galbraith, J. K., *Money: whence it came, where it went* (Penguin).
McCulloch, J. H., *Money and inflation* (Harcourt, Brace, Jovanovich).
Ritter, L. S., and Silber, W. L., *Money* (Basic Books).

Text-books:

- Davis, K. T., and Lewis, M. K., *Monetary policy in Australia* (Longman Cheshire).
Dornbusch, R., and Fischer, S., *Macroeconomics* (McGraw-Hill); *OR*
Dernburg, T. F., and McDougall, D. M., *Macro-economics* (McGraw-Hill); *OR*
Glahe, F. R., *Macroeconomics* (Harcourt, Brace, Jovanovich).
Hirst, R. R., and Wallace, R. H., *The Australian capital market* (Cheshire).
Laidler, D. E. W., *The demand for money*, 2nd edition (Dun-Donnelley, New York).

Additional references will be prescribed by the lecturers.

EE4G Microeconomics IIH.

Pre-requisite subject: Pass in EE2G Microeconomics IH and achievement of an acceptable standard in EE1G Macroeconomics IH. Students in faculties other than Economics who have passed with credit in EE71 Social Economics I may, with the approval of the Dean of the Faculty of Economics, be permitted to enrol in the two second year half-subjects EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

One lecture a week and one tutorial a fortnight. Evening lectures are given in odd years, and day lectures in even years.

This course builds on the microeconomic principles studied in first-year economics courses, and aims to provide an analysis of the way in which the market system functions as a mechanism for co-ordinating the independent choices of individual economic units. It is also concerned with developing a basis for evaluating the efficiency and equity implications of the way in which the market mechanism performs its co-ordinating function, and hence developing a perspective of the appropriate role of government. Integral to the course will be the study of consumer choice, exchange and trade, production and cost, market structure, general equilibrium and welfare. Application of microeconomic principles to topical economic and social problems will also be emphasised.

Text-books:

To be advised.

EE6F Economic History IIH(A).

Pre-requisite: Pass or achievement of an acceptable standard in EE71 Social Economics I or EE1G Macroeconomics IH and EE2G Microeconomics IH.

This course comprises one lecture a week and one tutorial a fortnight.

The course covers the development of the Australian economy from its initial origins in the British imperial design of the late 18th century, through its emergence as a world trader, to its relatively integrated, industrialised form after World War II. In the process the economy's institutional framework is analysed including the marketing, financial and arbitration systems.

Preliminary reading:

- Blainey, G., *The tyranny of distance* (Sun) and, for those who lack background historical knowledge of Australia,
Ward, R., *Australia* (Ure Smith).

Text-books:

- Boehm, E. A., *20th Century economic development in Australia* (Longmans).
Jackson, R. V., *Australian economic development in the nineteenth century* (A.N.U.P.).
Sinclair, W. A., *The Process of Economic Development in Australia* (Cheshire).
Additional references will be prescribed by the lecturers.

EE7F Economic History I(H)(B).

Pre-requisite subjects: EE1G Macroeconomics IH and EE2G Microeconomics IH *or* (with the approval of the lecturer) EE7I Social Economics I.

This half-subject consists of one lecture a week and one tutorial a fortnight throughout the year.

The course examines the evolution of the Russian economy from the 1860's through to 1917, and of the economy of the Soviet Union to the 1970's.

Emphasis is given to the distinctive character of that evolution, and to the circumstances, ideas, events and processes which have conditioned its direction and progress. Some analysis of the development and operation of the Soviet planning system under Stalin and subsequently is included.

Preliminary reading:

- Kochan, L., *The Making of modern Russia* (Penguin).
Wolfe, B., *Three who made a revolution* (Penguin).
Grossman, G., *The Industrialisation of Russia*, Vol. IV. Chap. 7 (Fontana Economic History of Europe).

Text-books:

- Dobb, M. H., *Soviet economic development since 1917* (Routledge).
Falkus, M. E., *The industrialisation of Russia, 1700-1914* (Macmillan).
Nove, A., *An economic history of the U.S.S.R.* (Allan Lane Penguin).
Nove, A., *The Soviet economic system*.

Additional references will be prescribed by the lecturer.

EE22 Economic Statistics II.

Pre-requisite subject: EE2G Microeconomics IH, unless the Chairman of the Department of Economics determines otherwise.

EE22 Economic Statistics II cannot be counted towards a degree if QT7H Statistics IH is also to be counted.

This course is given as day lectures in even years and as evening lectures in odd years. It comprises two lectures and one tutorial a week.

The course provides an introduction to statistical methods with special reference to applications in the field of economics. It includes discussion of the available Australian economic statistics and of the methods of compilation. The principal topics are: collection, presentation and description of data, with special reference to frequency distributions; an introduction to probability, sampling significance and elementary decision theory, including the use of the normal, t and χ^2 distributions; linear regression and correlation; time series; sample surveys; quality control; index numbers of prices and volume; elementary demography.

Preliminary reading:

Runyon, R. P., *Winning with statistics* (Addison-Wesley).

Text-books:

Hamburg, M., *Statistical analysis for decision making*, 2nd edition (Harcourt, Brace and World) (for mathematically oriented students); *OR*

Stevenson, W. J., *Business statistics* (Harper and Row), plus the *Study guide* for this book; *OR*

Levin, R. I., *Statistics for management* (Prentice-Hall), plus Stinson, J., *Workbook* for this book.

EE32 Economic Statistics IIA.

Pre-requisite subject: EE2G Microeconomics IH. An adequate mathematics background is also required; either a good pass in EE2F Mathematical Economics IH, QM01 Mathematics I or another approved mathematics course.

EE32 Economic Statistics IIA cannot be counted towards a degree if QT7H Statistics IH is also to be counted.

Students may enrol for this subject only with the permission of the Chairman of the Department of Economics.

The course comprises two lectures and one tutorial a week. The course is given as day lectures in even years and as evening lectures in odd years.

Students will be required to prepare class exercises.

The course will deal with an essentially mathematical approach to probability and statistical inference with economic applications. The topics covered will include: probability and probability distributions, expectation theory, estimation and statistical inference, simple and multiple regression, sampling theory, demography, time series, index numbers, introduction to electronic computing.

Text-book:

Mills, R. L., *Statistics for applied economics and business* (McGraw-Hill).

EE3F Mathematical Economics IIIH.

Pre-requisite subjects: Pass in EE2F Mathematical Economics IH or QM01 Mathematics I or QM11 Mathematics IM. Students should also be taking concurrently or have passed EE3G Macroeconomics IIIH and EE4G Microeconomics IIIH.

This half-subject is offered as one lecture a week throughout the year and one tutorial every fortnight.

The course concentrates on the investigation of economic models utilising the tools of mathematical analysis developed in EE2F Mathematical Economics IH. Topics studied include mathematical analysis of consumer behaviour, theory of the firm, macro-economic models, linear models and general equilibrium, choice under uncertainty, and linear and non-linear programming.

There is no single text-book suitable for the whole course. The following are used at various stages:

Baumol, W. J., *Economic theory and operations analysis*, 4th edition (Prentice-Hall).

Burrows, P., and Hitiris, T., *Macroeconomic theory: a mathematical introduction* (Wiley).

Chiang, A. C., *Fundamental methods of mathematical economics*, 2nd edition (McGraw-Hill).

Henderson, J., and Quandt, R., *Microeconomic theory* (McGraw-Hill).

THIRD-YEAR SUBJECTS AND HALF-SUBJECTS**EE13 Economic Development III.**

Pre-requisite: Students should have passed both EE3G Macroeconomics IIIH and EE4G Microeconomics IIIH.

The course comprises two seminars a week throughout the year; it is given as day classes in even years and as evening classes in odd years.

Each student will be expected to produce one major case study on a country of his choice, write one essay and prepare some short discussion-papers for seminars.

The course is concerned with the problems of development in less-developed countries. Topics to be discussed include: the meaning of underdevelopment, industrialisation, foreign aid, employment, theories and techniques of planning, relevant growth theories.

Preliminary reading:

Bauer, P. T., and Yamey, B. S., *The economics of underdeveloped countries* (C.U.P.).

Livingstone, I. (ed.), *Economic policy for development* (Penguin).

Singer, H., and Ansari, J., *Rich and poor countries* (Allen and Unwin).

Cody, J., and others, *Policies for industrial progress in developing countries* (O.U.P.).

Text-books:

Thirlwall, A. P., *Growth and development*, 2nd edition (Macmillan).

Meier, G. M. (ed.), *Leading issues in economic development*, 3rd edition (O.U.P.).

Yotopoulos, P. A., and Nugent, J. B., *Economics of development* (Harper and Row).

Todaro, M. P., *Economic development in the third world* (Longman).

Little, I. M. D., and others, *Industry and trade in some developing countries* (O.U.P.).

EE8G Economic History IIIH.

Pre-requisite subjects: EE3G Macroeconomics IIIH and EE4G Microeconomics IIIH. Note. Prior study of history or economic history is not required.

The course integrates economic analysis and historical evidence in the examination of the American economy during the 19th and 20th centuries. Emphasis is given topics directly or indirectly relevant to such current economic issues as economic growth, technological change, regulation and the role of government in the economy, macro-economic policy design, agricultural adjustment, inflation and unemployment, and the role of the United States in the international economy.

Text-books:

Brownlee, W. E., *Dynamics of ascent: A history of the American economy*, 2nd edition (Knopf); OR

Lee, S. P., and Passell, P., *A new economic view of American history* (Norton); OR

Ratner, S., and others, *The evolution of the American economy* (Basic Books).

EE33 Economics IIIA.

Pre-requisite subjects: EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

The course consists of two lectures plus one tutorial each week throughout the academic year. It is given as day lectures in odd years and as evening lectures in even years.

The general purpose of the course is to build on the theory developed in the first and second year "core" courses, and to integrate the international sector with this theory. Topics covered in recent years include: exchange and price formation; labour supply, unemployment and inflation; the gains from trade and exchange rate variations; macro-economic policy and balance of payments adjustment mechanisms.

Text-books:

There is no text-book appropriate to all aspects of the course. Appropriate references will be nominated by the lecturers.

EE2H Public Finance IIIH.

Pre-requisite subject: EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

This half-subject is given once a week as late afternoon lectures. In addition day and evening tutorials will be offered every two to three weeks.

The course is concerned with the theory and practice of public finance with emphasis on its application in the Australian economy. The public sector will be discussed in its role as an allocating, distributing and regulating body. The major sections of the course will therefore cover taxation, public goods, cost-benefit analysis and federal-state fiscal relations.

Text-books:

Musgrave, R. A., and Musgrave, P. B., *Public finance in theory and practice*, 3rd edition (McGraw-Hill).

Additional references will be prescribed by the lecturers.

EE3H Economics of Labour IIIH.

Pre-requisite subject: EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

EE3H Economics of Labour IIIH is given as day lectures in odd years and as evening lectures in even years. It comprises one lecture a week and one tutorial fortnightly.

This course is essentially a study of the interaction of economic and institutional factors in the labour market. The topics studied will include processes of wage determination; factors influencing the relative wage structure; industrial relations systems; unemployment and the labour force; basic theories of inflation; and wages and incomes policies. Emphasis will be given to the role of the Australian arbitration system in relation to general economic policy.

Text-books:

Brown, E. H. P., *The inequality of pay* (O.U.P.).

Rees, A. E., *The economics of work and pay* (Harper and Row).

EE4H Agricultural Economics IIIH.

Pre-requisite subject: EE3G Macroeconomics IIH or EE4G Microeconomics IIH.

This course consists of one lecture a week and a tutorial every second week throughout the year and is offered as day lectures in odd years and as evening lectures in even years.

The prime purpose of this course is to provide a basis for critical appraisal of Australian Agricultural Policy. Emphasis is given to the characteristics of agriculture (capital formation and technological innovation, production instability and price uncertainty, supply

responses); the role of agriculture in the Australian economy; policy objectives and measures in support of the farm sector (such as price stabilisation arrangements, duty free entry under by-law and tax concessions); recent and current problems in the farm sector (such as the cost-price squeeze on income, protection of the dairy industry, the reserve price scheme and operations of the Wool Corporation, quota restrictions on wheat production and rural reconstruction) as well as the nature and implications of recent changes in farm policy.

Text-books:

Campbell, K. O., *Agricultural marketing and prices* (Cheshire).

Throsby, C. D., *Agricultural policy* (Pelican).

Most of the reading is drawn from selected journal articles and Commonwealth publications. Where possible, copies of this material will be available in the Napier Birks room and on reserve in the Barr Smith Library.

EE7H Managerial Economics IIIH.

Pre-requisite subject: EE4G Microeconomics IIH.

The course, comprising one lecture a week and one tutorial a fortnight, is given as day lectures in even years and as evening lectures in odd years.

This course considers some economic concepts concerning the structure and growth of firms, demand analysis, advertising, cost analysis, economics of scale and pricing.

Text-book:

Dean, J., *Managerial economics* (Prentice-Hall).

Additional references will be prescribed by the lecturers.

EE8H Econometrics IIIH.

Pre-requisite subjects: EE32 Economic Statistics IIA, EE3G Macroeconomics IIH and EE4G Microeconomics IIH, and one of EE2F Mathematical Economics IH, QM01 Mathematics I or QM11 Mathematics IM.

Students may enrol for this half-subject only with the approval of the Chairman of the Department. The course consists of one lecture/seminar a week of one and a half hours duration throughout the year.

The econometrics course deals with the estimation of economic relationships. It includes the following topics: single equation and multiple equation estimation in econometric models, in particular the effects of violation of the classical least squares assumptions; use of distributed lags and dummy variables and the development of multiple equation estimation procedures; the identification problem in multiple equation systems; the application of econometric techniques to applied problems.

A text-book will be recommended from:

Johnston, J., *Econometric methods* (McGraw-Hill, International Student Edition).

Kmenta, J., *Elements of econometrics* (Macmillan).

Koutsoyiannis, A., *Theory of econometrics* (Macmillan).

EE9H Mathematical Economics IIIH.

Pre-requisite subjects: EE3G Macroeconomics IIH and EE4G Microeconomics IIH and QM01 Mathematics I or QM11 Mathematics IM.

The course consists of one lecture a week and a tutorial every second week. Static and dynamic optimisation methods are developed and applied to decision-making problems of firms and households, and to optimal economic policy problems of government.

Text-book:

Dixit, A. K., *Optimization in economic theory* (O.U.P.).

EE9G Economics of Antitrust and Regulation IIIH.

Pre-requisite subject: EE4G Microeconomics IIIH (after 1978). Students who have passed *either* EE02 Economics II *or* EE4G Microeconomics IIIH (before 1979) may not enrol for this subject.

This course consists of one lecture a week and one tutorial/seminar/additional lecture a fortnight. Lectures will be held late afternoon in all years.

The course will take as its starting point the existence of market failure due to the presence of all forms of monopoly power (including natural monopoly), and will concentrate on investigating ways in which the actual and potential abuses of such power can be remedied. The aim therefore is to consider the competitive environment within which the modern firm operates, and to use the tools of microeconomic theory to analyse firm behaviour. Particular attention will be paid to the policy measures which can be used to try and improve market performance.

A basic knowledge of the techniques of regression analysis will be helpful in understanding much of the empirical work considered in this subject. Case Studies will be used in teaching and assessment, and a small empirically-oriented research project (possibly done on a "team" basis) will be compulsory.

Text-book:

Scherer, F. M., *Industrial market structure and economic performance*, 2nd edition (Rand McNally).

AJ9H Economic Geography IIIH.

This course, which is offered by the Department of Geography, comprises two lectures and one tutorial a week, for half of the academic year (second half). It is concerned with the problem of uneven development and examines the nature and extent of spatial inequality in welfare at the world and regional scales. Some of the explanations for these contrasts are considered. Specific reference will be made to the regional problem in selected countries, and the efforts which have been made to reduce regional contrasts in economic opportunities and welfare.

EE8F Economic Theory IIIH.

Students may enrol for this half-subject only with the permission of the Chairman of the Department of Economics.

The course comprises two lectures a week. The purpose of the course is to introduce students to more advanced theory. Wide reading is not expected, instead intensive study is made of a few selected books and articles. Areas for study include, welfare economics, history of economic thought, choice under uncertainty, value, production and distribution theory.

HONOURS DEGREES.

Detailed arrangements for classes will depend on enrolments, and students are advised to communicate with the Dean of the Faculty of Economics well before the beginning of the academic year. Students will be admitted to honours classes only with the approval of the Dean. The honours work falls into two divisions. Interim honours classes are conducted for students in the third year and final honours classes in the fourth year.

INTERIM HONOURS:

Interim Honours B.Ec. students must take the course EE8F Economic Theory IIIH.

The subject EE03 Economics III for other students intending to take honours in Economics must include EE33 Economics IIIA and EE8F Economic Theory IIIH.

EE99 Honours Economics (B.A. and B.Ec.).

[The Final Honours year programme outlined below is that which applied for 1980. The details of the programme are currently under review and changes may occur for 1981 and following years. Students intending to seek entry into the Final Honours year are advised to consult with the Dean of the Faculty of Economics regarding details of the programme as finally approved.]

FINAL HONOURS:

(i) Final honours students are required to undertake a research project and present a thesis of approximately 10,000 words. An absolute upper limit of 15,000 words will apply and theses in excess of this will be penalised and/or returned to be reduced to this length. The thesis will form part of the final honours examination. Students must have the subject of their theses approved by the Dean of the Faculty and be allotted to supervisors before the end of the academic year preceding their final honours year. Students must commence work on their projects during the long vacation preceding their final honours year and must report to their supervisors not later than during the first week of February. They will be required to keep in touch with their supervisors during the term. A complete draft of the thesis is to be submitted to the supervisor for comment no later than the last day of first term and a final draft must be ready for typing at the end of the second week of the first vacation. Four copies of the thesis typed double spaced on A4 paper must be presented not later than the first day of the second term. Students will be required to submit themselves to an oral examination on their theses during the second term.

(ii) Each student will select three options from a range of courses which, subject to the availability of staff and sufficient enrolments, may include the following. Classes in these subjects will take place in second and third terms.

| | |
|-----------------------|-------------------------------|
| Accounting Theory | International Monetary Issues |
| Business Statistics | International Trade |
| Capital and Growth | Mathematical Economics |
| Development | Money |
| Econometrics | Public Economics |
| Economic History | Radical Economics |
| Economics of the Firm | Transport and Urban Economics |

(iii) Seminars in Applied Economics will be held throughout the year.

(iv) The examination will consist of:

- (a) The thesis.
- (b) Two papers in Applied Economics.
- (c) One paper in each of the three optional subjects.

ADDITIONAL SUBJECTS.

The Department also provides the following subjects for other faculties.

EE71 Social Economics I (B.A.).**EE43 Economics of Natural Resource Use
(B.Ag.Sc. and M.Env.St.).****EE53 Farm Management (B.Ag.Sc.).****EE63 Farm Prices and Policy (B.Ag.Sc.).**

COMMERCE.

EC01 Accounting I.

No pre-requisite subjects.

The course comprises two lectures and one tutorial class each week throughout the academic year. Students are required to submit written assignments (approximately one a fortnight) at tutorials.

A self contained course designed to provide students with an understanding of the strengths and limitations of accounting, and to serve as an introduction to the study of accounting for future accountants. Topics include the accounting process; introduction to the theory of valuation and income measurement; consolidations; sources and uses of funds; information for external parties; alternative valuation and income measurement systems.

Preliminary reading (optional):

Anthony, R. N., *Essentials of accounting* (Addison-Wesley).

Text-books:

Anthony, R. N., *Essentials of accounting* (Addison-Wesley).

Colditz, B. T., and Gibbins, R. W., *Australian accounting*, 2nd edition (McGraw-Hill).

Henderson, M. S., and Peirson, C. G., *An introduction to financial accounting theory* (Longman Cheshire).

EC02 Accounting II.

Pre-requisite subjects: Except with permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EC01 Accounting I and *either* EE01 Economics I *or* EE2G Microeconomics IH.

The course consists of two lectures plus one tutorial each week. Day lectures are given in odd years, evening lectures in even years. Day tutorials are given every year, but evening tutorials in even years only.

A general course in management accounting which serves two purposes: it seeks to teach future managers what they need to know about accounting and financial management, whilst at the same time teaching future accountants what might be expected of them by managers. The course is broadly divided into three sections covering an introduction to cost accounting, accounting information for tactical decisions and financial management.

Text-books:

Horngren, C. T., *Cost Accounting: a managerial emphasis*, 4th edition (Prentice-Hall).

Peirson, C. G., and Bird, R. G., *Business finance*, 3rd edition (McGraw-Hill).

EC03 Accounting III.

Pre-requisite subject: Except with permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EC02 Accounting II.

The course comprises two lectures and one tutorial a week. Day lectures are given in even years, evening lectures in odd years. Day tutorials are provided every year, but evening tutorials only in odd years.

The course consists of three parts. The first covers various topics in financial accounting, including an introduction to professional standards, accounting for subsidiaries and associated companies, liquidation, bankruptcy and takeovers. The second part deals with current issues in accounting theory, such as accounting for the effects of price changes, goodwill and human resources. The third part is concerned with the function of auditing and the development of auditing ideas and practices. Topics include responsibilities of an auditor; auditing principles and standards; auditing procedures and practices, internal control; and computer-based systems.

Text-books:

- Henderson, M. S., and Peirson, C. G., *Issues in financial accounting* (Cheshire).
Fraser, D. J., and Aiken, M. E., *Stettler's systems based audits* (Prentice-Hall).

EC23 Industrial Sociology III.

Except with the permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, not normally available to students before completion of the second full-time year or its equivalent.

The course comprises two lectures and one tutorial class of one and a half hours each week throughout the academic year. Students are required to prepare exercises and essays, and permission to sit for the final examination will not be granted unless a satisfactory standard in them has been reached.

This subject is offered as a day-time course in even years, and as an evening course in odd years.

Topics covered include culture, subcultures, socialisation, social control: interpersonal behaviour, interactions, activities, sentiments, transactions, symbols, norms and values: human reactions to life experiences, adaptive behaviour, stress and tension, problems of change: sociology of work: membership and structure of groups, work group and intergroup behaviour: leadership, supervision, motivation, worker satisfaction and morale, productivity: organisational change, management succession: technology and organisation structure, bureaucracy, project groups, socio-technical systems, worker participation. Selected research studies in organisational behaviour, detailed critical analysis of selected theories.

Text-books:

- Congalton, A. A., and Daniel, A. E., *The individual in the making* (Wiley).
Dunphy, D., *The challenge of change* (Australian Broadcasting Commission).
Lansbury, R., and Gilmour, P., *Organizations: an Australian perspective* (Longman Cheshire).
Olmsted, M. S., and Hare, A. P., *The small group*, 2nd edition (Random House).
Shepherd, C. R., *Small groups: some sociological perspectives* (Chandler).
Sofer, C., *Organizations in theory and practice* (Heinemann Educational Books).
Vroom, V. H., and Deci, E. L., *Management and motivation* (Penguin).

LL1H Income Tax III.

Pre-requisite subject: Except with the permission of the Chairman of the Department of Commerce, LL2H Commercial Law IH.

This course comprises a two-hour lecture each week together with one tutorial each week during the first half of the year.

A basic course in the method and content of Australian income tax law—including historical background, statutory provisions and cases, and the function of the accountant as an adviser on income tax matters. Discussion will cover income tax administration and procedure, the interpretation of taxing statutes, jurisdiction to tax, the nature of income and taxable income, the computation of tax and income tax as it relates to partners, trusts, companies and superannuation funds.

Text-books and reference books will be notified at the first lecture.

LL2H Commercial Law IH.

No pre-requisite subjects.

This course comprises two one-hour lectures each week together with one tutorial each week during the first half of the year.

An introduction to the legal system and legal concepts as used in Australia, including an examination of the sources of law in Australia (the system of courts and the legislative authorities) and of the rules of statutory interpretation.

A statement of the general principles of the law of contract, including agency.

A general examination of consumer protection legislation applying in South Australia.

Text-book:

Vermeesch, R. B., and Lindgren, K. E., *Business law of Australia*, 3rd edition (Butterworth).

Required statutes and reference material will be advised at the first lecture.

LL3H Commercial Law IIH.

Pre-requisite subject: Except with the permission of the Chairman of the Department of Commerce, LL2H Commercial Law IH.

This course comprises two one-hour lectures each week, together with one tutorial each week during the second half of the year.

Aspects of the law of agency and of the law of partnership. The law relating to limited liability companies with discussion of some or all of the following topics: The concept of corporate personality, the corporate constitution, delimitation of the corporate entity, ultra vires, company contracts and dispositions, a company's liability for wrongs and crimes, a company's capacity to sue and be sued, company finance, share capital, classes of shares, dividends membership and shareholding, loan finance, regulation of invitations to the public, officers of a company, duties of officers, accounts and audit, protection of minorities, meetings of companies, re-organisations and take-overs of companies, official management and liquidations.

The text-book, required statutes and reference material will be advised at the first lecture.

LL92 Commercial Law IIA.

No pre-requisite subjects.

This subject consists of the two half-subjects LL2H Commercial Law IH and LL3H Commercial Law IIH. It is available only to students who first enrolled in the B.Ec. course before 1979. For syllabuses, see above.

THIRD-YEAR HALF-SUBJECTS.

EC1G Computerised Accounting and Systems IIIH.

Pre-requisite subjects: Except with the permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EC01 Accounting I and EE22 Economic Statistics II or EE32 Economic Statistics IIA.

The course consists of one, one and one-half hour lecture/tutorial period a week throughout the year.

The course provides an appreciation of the process of analysing, designing and implementing computerised accounting and administrative systems.

The course consists of three parts. The first part provides an introduction to data processing in accounting and administration, an analysis of data editing and the creation and maintenance of commercial data files. The second part consists of the design and programming in BASIC of computerised accounting and administrative systems such as general ledger, financial reports, sales order entry, accounts receivable and costing. The third part deals with the methodology of systems analysis and design, implementation, computer security and related social issues.

Text-books:

Best, P. J., *Small business computer systems* (Prentice-Hall).

Orilia, L. S., *Introduction to business data processing* (McGraw-Hill).

Sharpe, W. F., and Jacob, N. L., *BASIC*, 3rd edition (Free Press).

EC2G Management Decision Analysis IIIH.

Pre-requisite subject: Except with the permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EE22 Economic Statistics II or EE32 Economic Statistics IIA.

The course consists of one, one and one-half hour lecture/tutorial period each week throughout the year.

The course provides an overview of quantitative methods for management decision making, including practice in the use of representative methods. The topics covered include decision analysis (subjective probability, utility, decision trees), linear methods (linear programming, transportation, assignment, critical path analysis), forecasting (naive methods, smoothing, curve fitting), simulation (discrete event simulation, financial modelling) and inventory management (EOQ, demand analysis and forecasting, inventory management systems). Computerised methods will be used, but computer programming will not be required.

Text-book:

Johnson, R. D., and Siskin, B. R., *Quantitative techniques for business decisions* (Prentice-Hall).

EC4H Business Finance IIIH.

Pre-requisite subjects: Except with the permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EC02 Accounting II, EE22 Economic Statistics II or EE32 Economic Statistics IIA.

The course comprises one lecture a week and one tutorial a fortnight.

The course consists of two parts. The first part deals with capital market theory, and comprises study of securities markets including fundamental and technical analysis and the efficient marketing hypothesis; portfolio theory and the capital asset pricing model; and investment management. The second part deals with topics in financial management, such as the integration of risk into project evaluation; mergers and takeovers; leasing; and capital structure.

Text-book:

Sharpe, W. F., *Portfolio theory and capital markets* (McGraw-Hill).

EC5H Marketing IIIH.

Pre-requisite subjects: Except with permission of the Chairman of the Department of Commerce, to be obtained before attempting to enrol, EE22 Economic Statistics II or EE32 Economic Statistics IIA.

Students who have not completed EC02 Accounting II will be required to do additional readings.

The course comprises one lecture a week and one tutorial class every second week. Practical exercises will be required.

Marketing tasks, the broadened concept of marketing; consumer behaviour; research marketing, multivariate data analysis, marketing experimentation; distribution channels; marketing-mix; organisation, planning, marketing information system control.

Text-books:

Ferris, G. E., Mathew, A. M., and Steidl, P. E., *Readings in Australian marketing* (Ball State University Press).

Hearne, J., *Marketing for managers* (Edward Arnold, Australia).

Jolson, M. A., and Hise, R. T., *Quantitative techniques for marketing decisions* (Macmillan).

OF THE DEGREE OF

MASTER OF BUSINESS MANAGEMENT

REGULATIONS

1. There shall be a degree of Master of Business Management.
2. (a) The Faculty of Economics may accept as a candidate for the degree a graduate of the University of Adelaide or of another university recognised for the purpose by the University of Adelaide.
(b) Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
(c) A candidate will not be permitted to proceed to part II of the course until he has had at least two years' experience in business, public service or other field of employment approved by the Faculty of Economics.
3. The maximum number of candidates which may be enrolled in any course for the degree shall be determined from time to time by the Council on the recommendation of the Faculty of Economics; and courses will not be provided unless a sufficient number of students has enrolled.
4. To qualify for the degree a candidate shall attend classes and satisfy the examiners in courses and project work as prescribed in the schedules.
5. If in the opinion of the Faculty of Economics a candidate for the degree is not making satisfactory progress the Faculty may with the consent of the Council withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.
6. A candidate shall not be permitted to present himself for examination or final assessment in any course, unless he has regularly attended the prescribed classes and has completed satisfactorily such written and practical work as may be required.
7. The Faculty of Economics shall appoint a Board of Examiners to conduct the examinations and other assessments required under regulation 4.
8. Schedules defining the courses of study and the project work for the degree shall be drawn up from time to time by the Faculty of Economics and approved by the Council.
9. A candidate who has completed courses of study for the degree before 31 March, 1981, may continue under the schedules in force in 1980, with such modifications (if any) as may be prescribed by the Faculty of Economics, provided that he qualifies for the degree by 31 March, 1984.
10. A candidate who holds the Diploma in Business Management shall surrender his diploma before being admitted to the degree.
11. A candidate who complies with the foregoing conditions and satisfies the examiners shall, on the recommendation of the Faculty of Economics, be admitted to the degree.

Regulations allowed 16 March, 1961.

Amended: 28 Feb.1974: 2,9; 15 Jan.1976: 4,6,7,8; Awaiting allowance: 9,9 and 10 re-numbered 10 and 11.

OF THE DEGREE OF

MASTER OF BUSINESS MANAGEMENT

SCHEDULES

(Made by the Council under regulations 4 and 8.)

NOTE: Syllabuses of subjects for the degree of M.B.M. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

COURSES OF STUDY AND PROJECT WORK

1. The courses of study for the degree of Master of Business Management shall comprise:

PART I

| | |
|-------------------------------|--|
| EM05 Economics for Management | EM55 Organisational Theory and Practice |
| EM15 Managerial Accounting | EM65 Quantitative Methods |
| EM25 Managerial Finance A | EM75 Resources, Institutions and Policies |
| EM35 Marketing Principles | |
| EM45 Organisational Behaviour | |

PART II

| | |
|--------------------------------------|---|
| EM07 Advanced Management Seminars | Six elective subjects chosen from the list of optional subjects available (see footnote to schedule). |
| EM17 Supervised Project Work | |

2. (a) A candidate shall pass in each subject of part I and shall attain an overall standard in that part at least equivalent to that required for Second Class Honours (see footnote to schedules). He shall also complete the prescribed course work subjects of part II, other than the project work, at an overall standard at least equivalent to that required for Second Class Honours. The project shall also be completed at this standard.

(b) The Faculty of Economics may grant such status in any subject as it may determine.

3. The names of those who pass in any subject of part I, or overall in the course work subjects of part II, other than the project work, shall be published in alphabetical order within the following classifications: pass with distinction, pass with credit, pass. The project shall be classified as satisfactory or unsatisfactory and, if satisfactory, shall be graded Distinction, Credit or Pass.

4. Subject to the following exceptions a candidate shall complete the subjects in part I before proceeding with any of the subjects in part II:

(a) The Chairman of the Department of Commerce (or his nominee) may permit a candidate to proceed with not more than two part II subjects before he has completed all of the subjects of part I.

(b) The Faculty of Economics may allow a candidate who has completed at least six of the subjects in part I to proceed to part II and to take the part I subject concurrently with his part II studies.

5. The Faculty of Economics shall review the academic performance of each candidate on his completion of part I, and a candidate whose performance in part I is deemed by the Faculty to be unsatisfactory shall not be permitted to proceed to part II.

6. Except with the specific advance approval of the Faculty of Economics in each case, a candidate for the degree by part-time study shall complete the course-work subjects in part II in two years; provided that, in the case of a candidate proceeding under one of the provisos in clause 3, the year in which he is completing part I shall not be counted. If the Faculty permits a longer time it may impose such conditions as it sees fit.

7. A candidate's programme of study must be approved by the Chairman of the Department of Commerce (or his nominee) at enrolment each year.

8. Each candidate will be required to undertake during university vacations such studies as may be prescribed.

9. A candidate shall, before commencing the course-work of part II, submit for approval to the Chairman of the Department of Commerce (or his nominee), a written outline of the project work he proposes to undertake and shall submit a written report on the project work not later than six months from the date on which he completes the course-work of part II.

10. A candidate who interrupts his candidature may re-enrol only with the approval of the Faculty and under such conditions as the Faculty may impose in each case. Approval should be sought in advance for any proposed interruption.

NOTE (not forming part of the Schedules).

The optional subjects from which the six elective subjects in Part II may be chosen are:

- EM27 Advanced Quantitative Methods
- EM37 Business Law
- EM47 Corporate Strategy
- EM57 Industrial Relations
- EM67 Industry Economics
- EM77 Management and Information Systems (formerly EC18)
- EM87 Managerial Finance B
- EM97 Managerial Finance C
- EM08 Marketing Decision Making
- EM18 Organisational Psychology (formerly EC28)
- EM28 Personnel Management (formerly EC08)
- EM38 Public Sector Management
- EM48 Quantitative Decision Making

The electives to be offered in any year will be dependent on staff availability and student demand and subject to such quotas as may need to be imposed.

OF THE DEGREE OF
MASTER OF BUSINESS MANAGEMENT
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

PART I (NEW COURSE).**EM05 Economics for Management.**

This course comprises two, one and one-half hour classes for the first half of the academic year and is an introduction to the basic principles of modern economic theory.

The first section deals with price-output decisions by firms in markets characterised by perfect competition and monopoly. The second half of the course deals with the Keynesian theory of the determination of the aggregate level of income and employment.

Text-book:

Samuelson, P. A., and others, *Economics*, 2nd Australian edition (McGraw-Hill).

EM15 Managerial Accounting.

This course comprises two, one and one-half hour classes for the first half of the academic year.

Topics covered include: basic accounting processes; the assumptions and principles underlying conventional accounting reports; income determination and asset valuation; analysis of accounting reports; statements of changes in financial position; planning and budgeting; costs for management decisions; product costing; standard costing; overhead costs; cost control; management reports.

Text-book:

Shillinglaw, G., and others, *Accounting, a management approach*, 6th edition (Irwin).

EM25 Managerial Finance A.

This course comprises two, one and one-half hour classes for the second half of the academic year.

The topics will include an introduction to financial mathematics; risk and value; cost of capital; fundamentals of capital budgeting; risk analysis and capital budgeting; financial decisions and capital structure; and dividend policy.

Text-book:

Schall, L. D. and Haley, C. W., *Introduction to financial management*, 2nd edition (McGraw-Hill).

EM35 Marketing Principles.

This course comprises two, one and one-half hour classes for the second half of the academic year.

Topics covered include: strategic management and marketing; marketing environment; market segmentation and targeting; buyer behaviour; marketing planning, product life-cycle; new product development; pricing; distribution; advertising and promotion; sales management; marketing organisation; marketing information system; marketing control.

Text-book:

Kotler, p., and others, *Australian marketing* (Prentice-Hall).

EM45 Organisational Behaviour.

The course comprises two lectures and one tutorial a week, normally during the first half of the academic year.

Topics covered include: cultures and sub-cultures; stratification; socialisation; social control; norms and values; power; theories of motivation at work; role conflict and role stress; job satisfaction; communication; membership and structure of groups; work group and inter-group behaviour; leadership.

Text-books:

Lupton, T., *Management and the social sciences* (Penguin).

Mitchell, T. R., *People in organizations: understanding their behaviour* (McGraw-Hill).

EM55 Organisational Theory and Practice.

A knowledge of EM45 Organisational Behaviour is assumed in this course.

The course comprises two lectures and one tutorial class a week, normally during the second half of the academic year.

The following topics will be covered: theory evaluation and other methodological considerations; socio-technical systems theory; bureaucracy; organisational structure and design; action research and organisational change.

Text-books:

Jackson, J. H., and Morgan, C. P., *Organization theory* (Prentice-Hall).

Child, J., *Organisation* (Harper and Row).

EM65 Quantitative Methods.

This course comprises two, one and one-half hour classes for the first half of the academic year, and provides an introduction to quantitative methods useful in management decision making.

The course covers mathematical methods including: simple graphical and algebraic representations of data; multivariate relationships, rate of change, optimising and the solution of algebraic equations; probability including measures of location and variability, hypothesis testing relationships between many variables, Bayesian inference, sampling and sample size, and simple models, including project selection, budgeting, population and time series analysis.

There are no prescribed texts. All topics will be covered by means of class examples, illustrative exercises performed using computer procedures in workshop sessions and reference to standard text books.

EM75 Resources, Institutions and Policies.

This course comprises two, one and one-half hour classes for the second half of the academic year, and assumes a knowledge of EM05 Economics for Management.

The course consists primarily of presentations, by individual seminar members, dealing with selected topics in Australian resources, and social, political and economic institutions and policies. It provides an introduction to the environment in which public and private management decisions are made.

Seminar members should own a copy of the most recent edition of the *Australian Year Book*.

PART II (NEW COURSE).

Syllabuses of the following subjects for Part II of the degree of Master of Business Management (new course) will be published in the Calendar for 1982:

- EM07 Advanced Management Seminars.
- EM17 Supervised project on an approved topic (formerly EC57).
- Elective subjects**
- EM27 Advanced Quantitative Methods.
- EM37 Business Law.
- EM47 Corporate Strategy.
- EM57 Industrial Relations.
- EM67 Industry Economics.
- EM77 Management and Information Systems (formerly EC18).
- EM87 Managerial Finance B.
- EM97 Managerial Finance C.
- EM08 Marketing Decision Making.
- EM18 Organisational Psychology (formerly EC28).
- EM28 Personnel Management (formerly EC08).
- EM38 Public Sector Management.
- EM48 Quantitative Decision Making.

PART II (OLD COURSE).

EC07 Business Policy.

The course consists of one seminar a week during the second half of the year.

Cases in business policy.

Text-book:

Christensen, C. R., and others, (eds.), *Business policy: text and cases*, 3rd edition (Irwin).

EC17 Financial Management.

The course consists of nine seminars in financial management and four seminars in managerial economics during the first half of the year.

Topics include the management of current assets; forecasting funds requirements; capital budgeting; short-term and long-term sources of finance; capital structure; marketing planning and research; marketing organisation and control; supply and demand analysis and pricing.

Text-book:

Gitman, L. J., and Moses, E. A., *Financial management: Cases* (West).

EC27 Government and Administration.

The course consists of one seminar a week during the first half of the year.

A knowledge of EC16 Economics (Business Management) is assumed in this course. Project work will be required.

Australian resources and the structure of the Australian economy.

Australian data sources, official and other.

Non-economic factors in policy making, including the Australian federal structure and constitution, political organisations, social values and institutions.

The structure and operation of important Australian and State institutions and policies under the general headings: government regulation (including fiscal policy), monetary operations, overseas trade and socio-economic activities (including communication, urban development, health and social welfare).

Class members will be expected to own a copy of the latest edition of the Official Year Book of Australia.

EC37 Organisation Theory and Behaviour.

A knowledge of EC26 Industrial Sociology is assumed in this course.

The course consists of two lectures and one tutorial a week conducted during the second half of the year. The following topics will be covered: organisational structure and design, organisational assessment, organisational control, action research and organisational change.

Text-books:

Child, J., *Organization* (Harper and Row).

Jackson, J. H., and Morgan, C. P., *Organization theory* (Prentice-Hall).

EC47 Quantitative Methods II.

The course consists of one seminar a week during the first half of the year.

A knowledge of EC36 Quantitative Methods I, including the ability to write BASIC computer programmes, is assumed in this course.

Model building for planning and control decision making, including linear and non-linear models involving linear programming, networks, efficient searching and population models, forecasting models involving time series analysis, naive, causative and qualitative forecasting, and simulation models involving computer methods.

EC67 Business Finance.

The course consists of one seminar a week during the second half of the year.

The course consists of two parts. The first part deals with investments, and comprises study of securities markets including fundamental and technical analysis and the efficient market hypothesis; portfolio theory and the capital asset pricing model; and investment management. The second part deals with topics in financial management, such as the integration of risk into project evaluation; mergers and takeovers; and financial structure.

EC77 Marketing Management.

The course consists of two, one and a half-hour classes a week during the second half of the year.

Marketing systems; market research; organisation; planning; product-policy decision, price decision, channel decision, communication-promotion decision, advertising decision, sales-force decision; marketing control.

Text-book:

Kotler, P., and others, *Australian marketing* (Prentice-Hall).

EC87 Quantitative Methods III(1) — Control of Operations.

The course consists of one seminar a week during the second half of the year.

A knowledge of EC47 Quantitative Methods II will be assumed in this course. Project work will be required. Course and project work will be conducted in a simulated computer based production system environment.

Control of operations, including production, inventory and distribution management.

EC97 Quantitative Methods III(2) — Planning and Decision Analysis.

The course consists of one seminar a week during the second half of the year.

A knowledge of EC47 Quantitative Methods II will be assumed in this course. Project work will be required.

Statistical decision analysis, project planning and assessment.

EC08 Personnel Management (Old Course).

A knowledge of EC37 Organisation Theory and Behaviour is assumed in this course.

The course consists of one seminar a week during the first half of the year.

The following topics will be covered: selection and placement, assessment, training and development, participative systems of management, conflict and stress.

Text-books:

Dalton, C. W., and others, *Organizational change and development* (Irwin).

Blum, M. L., and Naylor, J. C., *Industrial psychology: its theoretical and social foundations* (Harper and Row).

Lansbury, D., (ed.), *Democracy in the work place* (Longman Cheshire).

Pateman, C., *Participation and democratic theory* (C.U.P.).

EC18 Management and Information Systems (Old Course).

The course consists of one seminar a week during the second half of the year.

A knowledge of EC36 Quantitative Methods I, including the ability to write BASIC computer programmes, is assumed in this course.

A study of the process of systems analysis and design prior to the installation of an information system, information system selection, the social problems surrounding the planning and implementation of computerised information systems and the managerial implications of computer usage. Topics include on-line systems, service bureaux, computer utilities, privacy, centralisation, staffing, computer security. Accounting and administrative systems will be used as illustrative examples.

Text-books:

Clifton, H. D., *Business data systems* (Prentice-Hall).

Lucas, H. C. Jr., *Information systems concepts for management* (McGraw-Hill).

EC28 Organisational Psychology (Old Course).

The course consists of one seminar a week to be held in the second half of the year.

This course concentrates on certain features of individual behaviour. In particular, aspects of the following are considered: theories of personality, personality assessment, abnormal psychology, and the management of conflict and stress.

Text-books:

Batchelor, I. R. C., *Henderson and Gillespie's Textbook of Psychiatry*, 10th edition (O.U.P.).

Cooper, C. L., and Marshall, J., *Understanding executive stress* (Macmillan).

EC57 Supervised Project Work (Old Course).

Supervised project work on an approved topic.

The course consists of two units

C471 M.B.M. Project, Stage I

C472 M.B.M. Project, Stage II

Full-time students are required to enrol for both units.

Part-time students will enrol for Unit C471 M.B.M. Project, Stage I in the first year and Unit C472 M.B.M. Project, Stage II in the second year.

OF THE DEGREE OF
MASTER OF ECONOMICS
REGULATIONS

1. (a) The Faculty of Economics may accept as a candidate for the degree any graduate who:

- (i) has obtained the Honours degree of Bachelor of Economics of the University of Adelaide with First or Second-Class Honours; or
- (ii) has obtained an Honours degree of another university, which degree the Faculty regards as being equivalent to a First- or Second-Class Honours degree in Economics of the University of Adelaide.

(b) The Faculty of Economics may accept provisionally as candidates for the degree other graduates of the University of Adelaide or of other universities whose qualifications satisfy the Faculty that they are likely to be able satisfactorily to undertake the work for the degree.

(c) A provisionally-accepted candidate shall, within such time as the Faculty shall in each case prescribe or allow, undertake an approved course of advanced study and pass an examination at First or Second-Class Honours standard before his acceptance as a candidate will be confirmed. Failure to pass the qualifying examination at the required standard at the first attempt shall, unless the Faculty decides otherwise, cancel the provisional acceptance.

(d) A candidate shall not be admitted to the degree before the expiration of one year from his admission to the Honours degree specified in section (a) (i) above, or to the degree which the Faculty accepts as equivalent thereto under section (a) (ii) above, or before the expiration of two academic years from his admission to the degree accepted by the Faculty under section (b) above.

(e) Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who, irrespective of whether or not he is a university graduate, has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.

2. A candidate may qualify for the degree by *either*:

(a) satisfactorily completing an approved programme of research work on an approved topic and submitting a satisfactory thesis thereon; *or*

(b) (i) passing an examination set after completion of an approved course of post-graduate study; and

(ii) satisfactorily completing an approved programme of research work on an approved topic and submitting a satisfactory dissertation thereon.

3. (a) A person who wishes to become a candidate for the degree shall apply to the Academic Registrar indicating in general terms the subject of any research work to be undertaken, and where applicable, his proposed course of study for examination.

(b) If it accepts him, provisionally or otherwise, as a candidate for the degree, the Faculty may appoint a supervisor to guide him in his work.

4. A candidate's progress shall be reviewed by the Faculty at the end of each academic year. If, in the opinion of the Faculty of Economics, a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.

5. On completion of his work, the candidate shall lodge with the Academic Registrar three copies of his thesis or dissertation prepared in accordance with directions given to candidates from time to time.*

6. The Faculty shall appoint examiners to report upon the thesis or dissertation. The examiners shall report to the Faculty and may recommend:

- (a) that the degree be awarded; *or*
- (b) that the thesis or dissertation be returned to the candidate for revision and resubmission; *or*
- (c) that the degree be not awarded

7. A candidate who complies with all the foregoing conditions and satisfies the examiners of his thesis or dissertation may, on the recommendation of the Faculty of Economics, be admitted to the degree.

Regulations allowed 22 December, 1966.

Amended: 15 Jan. 1976: 5.

*Published in "Notes and Instructions to candidates for Higher Degrees": *see* Table of Contents.

FACULTY OF ENGINEERING

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OF THE DEGREE OF
BACHELOR OF ENGINEERING
REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Engineering.
2. Schedules defining the courses of study, including lectures, laboratory and other practical work to be undertaken, and the examinations to be passed, shall be drawn up by the Faculty of Engineering and be submitted to the Council.
Such schedules shall become effective as from the date of approval by the Council or such other date as the Council may determine, and shall be published in the next University Calendar which is issued after that approval has been given.
3. Except by permission of the Faculty a candidate shall not be admitted to the class in any subject for which he has not completed the pre-requisite work prescribed in the syllabus for that subject.

The Ordinary Degree.

4. (a) To qualify for the Ordinary degree a candidate shall regularly attend lectures and do written, laboratory, and other practical work (where such is required), and pass examinations in the subjects prescribed for one of the following Engineering courses:
 - (i) Chemical Engineering;
 - (ii) Electrical Engineering;
 - (iii) Mechanical Engineering;
 - (iv) Civil Engineering.

(b) Before being admitted to the degree a candidate shall also submit satisfactory evidence that he has completed a period of practical experience in work approved by the Faculty of Engineering as appropriate to the course which he has followed.
5. (a) Examinations in any subject or part of a subject shall be held in accordance with the provisions of the relevant schedule made under these regulations.

(b) A candidate shall enter for examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has regularly attended the prescribed lectures and has done written and laboratory or other practical work, where required, to the satisfaction of the professors and lecturers concerned.

(c) In determining a candidate's final result in a subject (or part of a subject) the examiners may take into account oral, written, practical and examination work, provided that the candidate has been given adequate notice of the way in which work will be taken into account and of its relative importance in the final result.

(d) There shall be three classifications of pass at an annual examination in any subject for the Ordinary degree, as follows: Pass with Distinction, Pass with Credit, Pass. The names of candidates who pass with Distinction or with Credit shall be arranged in order of merit within the classification; the names of other candidates who pass shall be arranged in alphabetical order either in one list or in two divisions as the Council may, on the recommendation of the Faculty, determine. If the pass list be published in two divisions, a pass in the higher division may be prescribed in the syllabuses as pre-requisite for admission either to further courses in that subject or to other subjects.

(e) A candidate who fails to pass in any subject shall again attend lectures and do practical work in that subject, to the satisfaction of the professors and lecturers, unless exempted by the Faculty of Engineering. Any such exemption shall hold for one academic year only.

(f) Supplementary examinations will be held only in special circumstances approved by the Faculty after consideration of individual cases.

6. Except in case of illness or other sufficient cause allowed by the Council, no candidate shall be credited in any year with attendance at lectures or laboratory work in a subject unless he has attended at least three-fourths of the lectures and laboratory work respectively in that subject.

7. No candidate shall be granted exemption from attendance at lectures or practical work in any subject, except upon grounds approved by the Council.

8. A candidate who has twice failed to pass the examination in any subject or division of a subject may not present himself again for instruction or examination therein unless his plan of study is approved by the Dean. If he fails a third time he may not proceed with the subject again except by special permission of the Faculty, and under such conditions as the Faculty may prescribe.

For the purpose of this regulation a candidate who is refused permission to sit for examination in any subject or division of a subject shall be deemed to have failed to pass the examination.

9. A student who has passed examinations *in pari materia* in another faculty or otherwise, or who desires that his work at other universities or technical schools should be counted *pro tanto* for the degree of Bachelor of Engineering, may on application be granted such exemption from the requirements of these regulations as the Council shall determine.

The Honours Degree.

10. The Honours degree shall be available in each of the following courses:

- (a) Chemical Engineering;
- (b) Electrical Engineering;
- (c) Mechanical Engineering;
- (d) Civil Engineering.

11. (a) A candidate desiring to enrol for the Honours degree shall obtain the approval of the department concerned.

(b) A candidate for the Honours degree must in the one academic year satisfactorily complete the courses of study prescribed in the schedule for the Honours degree. Where these studies include any subject or part of a subject which is prescribed as part of the course of studies for the Ordinary degree the candidate shall complete such subject or part thereof at a standard generally higher than that required of a candidate for the Ordinary degree.

(c) Notwithstanding the provisions of section (b), the Faculty may in exceptional cases, and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the Honours degree a person who has previously completed a minor part of the work of the final year of the course for the Ordinary degree.

(d) The names of candidates who pass with Honours shall be arranged alphabetically in the following classes under each department: First Class, Second Class Division A, Second Class Division B. A candidate who fails to obtain first or second class Honours may be awarded the Ordinary degree provided he has in all other respects completed the work for that degree.

(e) Before being admitted to the degree a candidate shall also submit satisfactory evidence that he has completed a period of practical experience in work approved by the Faculty of Engineering as appropriate to the course which he has followed.

Regulations allowed 11 December, 1947.

Amended: 8 Dec.1949: 4; 11 Nov.1954: 10,11; 22 Dec.1955: 5; 20 Dec.1956: 5; 9 Jan.1958: 3,11; 15 Jan.1959: 4; 4 Oct.1962: 11; 4 Apr.1963: 4,10; 28 Jan.1965: 4,10,11; 4 Nov. 1965: 11; 21 Dec.1967: 4,11; 24 Dec.1969: 11; 15 Jan.1976: 2; 23 Dec.1976: 11; 2 Feb.1978: 5.

OF THE DEGREE OF
BACHELOR OF ENGINEERING
SCHEDULES

(Prescribed by the Council under regulation 2.)

NOTE: Syllabuses of subjects for the degree of B.E. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: ARRANGEMENT OF COURSES

The courses shall occupy four years of full-time study. Details of these courses are set out in schedules IV, V, VI and VII.

SCHEDULE II: COMPLETION OF SUBJECTS

It is not necessary for a candidate to take all the subjects of any one year simultaneously or to complete all the subjects set out for one year before enrolling for any subject of the following year provided that the pre-requisite subjects have been passed. But a candidate who desires to take a third-year subject before completing the first year, or a fourth-year subject before completing the second year, must obtain the permission of the Faculty.

SCHEDULE III: APPROVAL OF SUBJECTS

During the enrolment period before the beginning of each academic year each candidate must obtain the approval of the Assistant to the Dean of the Faculty of Engineering to enrol for the subjects he wishes to study.

SCHEDULE IV: CIVIL ENGINEERING

FIRST YEAR

| | |
|---|----------------------------|
| NX21 Engineering IA | AJ2H Human Geography IH |
| QM01 Mathematics I | AL2H Logic IH |
| SP01 Physics I | EE1G Macroeconomics IH |
| <i>Either</i> | EE2G Microeconomics IH |
| SG3H Geology IH(E) | AL1H Philosophy IH(A) |
| <i>And ONE of the following half-</i> | AJ1H Physical Geography IH |
| <i>subjects having a compatible time-</i> | <i>or</i> |
| <i>table:</i> | SG01 Geology I |
| SB5H Environmental Biology IH | |

SECOND YEAR

| | |
|-----------------------------|----------------------|
| QN12 Applied Mathematics II | NX12 Engineering IIC |
| NC02 Civil Engineering II | |

THIRD YEAR

| | |
|-----------------------------|-----------------------|
| NC03 Civil Engineering IIIA | NX53 Engineering IIIC |
| NC13 Civil Engineering IIIB | |

FOURTH YEAR

| | |
|----------------------------|----------------------------|
| NC14 Civil Engineering IVA | NC34 Civil Engineering IVC |
| NC44 Civil Engineering IVB | NC64 Civil Engineering IVD |

SCHEDULE V: ELECTRICAL ENGINEERING

FIRST YEAR

| | |
|---------------------|--------------------|
| SC01 Chemistry I | QM01 Mathematics I |
| NX31 Engineering IB | SP01 Physics I |

SECOND YEAR

| | |
|--------------------------------|-----------------|
| QN12 Applied Mathematics IIB | SP02 Physics II |
| NE02 Electrical Engineering II | |

THIRD YEAR

| | |
|---------------------------------|-----------------------------|
| NE13 Electrical Engineering III | <i>Either</i> |
| NX23 Engineering IIIE | QA12 Computing Science IIC* |
| | <i>or</i> |
| | QM02 Pure Mathematics II |

FOURTH YEAR

| | |
|---------------------------------|---------------------------------|
| NE14 Electrical Engineering IVA | NE34 Electrical Engineering IVC |
| NE24 Electrical Engineering IVB | |

*Or such other subject offered by the Faculty of Science or the Faculty of Mathematical Sciences as may be approved in individual cases by the Faculty of Engineering.

NOTE: A candidate of high academic ability who has completed the Third Year is recommended to spend an additional year at this stage to qualify for the degree of Bachelor of Science, in order to improve his qualifications to undertake research in engineering science. He is not required to apply to SATAC for admission to the Science course; however he should have his enrolment form for the additional year endorsed by the Course Advisers for Engineering, and either Science or Mathematical Sciences (as the case may be).

SCHEDULE VI: MECHANICAL ENGINEERING

FIRST YEAR

NX31 Engineering IB
QM01 Mathematics I
SP01 Physics I
And ONE of the following:
SC01 Chemistry I

or
AY01 Psychology I
or
EE11 Economics I

SECOND YEAR

QN12 Applied Mathematics IIB
NX42 Engineering IIM

NM02 Mechanical Engineering II

THIRD YEAR

NM03 Mechanical Engineering IIIA
NM13 Mechanical Engineering IIIB

Either
NX73 Engineering IIIM A
or
NX83 Engineering IIIM B

FOURTH YEAR

NM85 Engineering Management IV
NM24 Mechanical Engineering IVA

NM34 Mechanical Engineering IVB
NM44 Mechanical Engineering IVC

SCHEDULE VII: CHEMICAL ENGINEERING

FIRST YEAR

SC01 Chemistry I
NX21 Engineering IA

QM01 Mathematics I
SP01 Physics I

SECOND YEAR

QN12 Applied Mathematics IIB
NH12 Chemical Engineering II

SC22 Chemistry IIE

NOTE: A candidate who has completed the Second Year of the Chemical Engineering course and who wishes to qualify for the B.Sc. and B.E. degrees concurrently is recommended to undertake one year of full-time study within the Faculty of Science before proceeding to further studies within the Faculty of Engineering. He is not required to apply to SATAC for admission to the Science course; however he should have his enrolment form for the additional year endorsed by the Course Advisers for Engineering, and either Science or Mathematical Sciences (as the case may be).

THIRD YEAR (OLD SYLLABUSES)

(To be offered for the last time in 1981)

NH13 Chemical Engineering IIIA
NH23 Chemical Engineering IIIB

Either
NX93 Engineering IIIB A
or
NY93 Engineering IIIB B

THIRD YEAR (NEW SYLLABUSES)

(To be offered for the first time in 1982)

NH13 Chemical Engineering IIIA
NH23 Chemical Engineering IIIB

NZ93 Engineering IIIB

FOURTH YEAR

NH14 Chemical Engineering IVA
NH24 Chemical Engineering IVB
NH34 Chemical Engineering IVC

SCHEDULE VIII: CHEMICAL ENGINEERING

(FOR CANDIDATES TRANSFERRING FROM A SCIENCE OR MATHEMATICAL SCIENCES COURSE)

Candidates who have completed part of the requirements for the degree of B.Sc. should consult the Chairman of the Department of Chemical Engineering before preparing an application to the Faculty of Engineering for appropriate status.

Transfer after completing a B.Sc. course

A candidate who has completed the academic requirements for the degree of B.Sc. passing the subjects QM01 Mathematics I, SP01 Physics I, SC01 Chemistry I, QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB and SC02 Physical and Inorganic Chemistry II plus Reaction Kinetics as part of a third-year subject in Physical and Inorganic Chemistry may proceed to the degree of B.E. Chemical Engineering by completing the following programme of study, which is to be offered for the last time in 1981:

NH62 Chemical Engineering IIS (To be completed before commencing the Third Year subjects)

THIRD YEAR

NH13 Chemical Engineering IIIA NX21 Engineering IA
NH63 Chemical Engineering IIIBS NX52 Engineering IIH

FOURTH YEAR

Normal fourth year of the Chemical Engineering course.

From 1982, candidates who have a background as outlined above will complete one of the following programmes:

(a) For candidates who **have** completed NX01 Engineering I (prior to 1981) or NX21 Engineering IA or NX31 Engineering IB.

THIRD YEAR

NH13 Chemical Engineering IIIA NZ83 Engineering IIIHS
NH63 Chemical Engineering IIIBS NH62 Chemical Engineering IIS

FOURTH YEAR

Normal fourth year of the Chemical Engineering Course.

(b) For candidates who **have not** completed NX01 Engineering I (prior to 1981) or NX21 Engineering IA or NX31 Engineering IB.

NH62 Chemical Engineering IIS (To be completed before commencing the Third Year subjects)

THIRD YEAR

NH13 Chemical Engineering IIIA NZ83 Engineering IIIHS
NH63 Chemical Engineering IIIBS NX21 Engineering IA

FOURTH YEAR

Normal fourth year of the Chemical Engineering Course.

SCHEDULE IX: ENGINEERING I, II AND III

(SUBJECTS TAUGHT BY MORE THAN ONE DEPARTMENT)

(a) Engineering I

NX21 Engineering IA

NX31 Engineering IB

A candidate from the Civil and Chemical Engineering Departments will do NX21 Engineering IA and a candidate from the Electrical and Mechanical Engineering Departments will do NX31 Engineering IB.

(b) Engineering II and III

These are made up of selected parts from the following list:

| | |
|--|--|
| C201 Stress Analysis A | H202 Materials Engineering |
| C202 Stress Analysis B | †H203 Process Instrumentation and Control |
| C203 Structural Engineering | Q201 Mathematics III (Engineering) |
| M201 Vibration, Control and Heat Transfer | C204 Numerical Analysis in Engineering |
| M202 Machine Design | C205 Engineering Economics and Planning |
| E201 Electrical Circuits and Machines | |
| E202 Electronics | |
| H201 Engineering Materials | |

A candidate from the Civil Engineering Department will do NX12 Engineering IIC and NX53 Engineering IIIC; from Electrical Engineering, NX23 Engineering IIIE; from Mechanical Engineering, NX42 Engineering IIM and NX73 Engineering IIIM A or NX83 Engineering IIIM B; and from Chemical Engineering, NX93 Engineering IIH A or NY93 Engineering IIH B.

The parts making up each of these subjects are listed below.

| | |
|---|---|
| NX12 Engineering IIC (E201, E202, H201) | *NX52 Engineering IIH (E201) |
| NX53 Engineering IIIC (M201, M202, C204, C205) | *NX93 Engineering IIH A (C201, M202, E201) |
| NX23 Engineering IIIE (C201, M202) | *NY93 Engineering IIH B (C201, E201, Q201) |
| NX42 Engineering IIM (C202, C203, H201) | †NZ83 Engineering IIHS (E201, H203) |
| NX73 Engineering IIIM A (E201, E202, Q201) | †NZ93 Engineering IIH (E201, H203†, M202) |
| NX83 Engineering IIIM B (E201, E202, H202) | |

A pass in Engineering I, II or III, will be granted on the subject as whole and not in individual parts.

*To be offered for the last time in 1981.
†To be offered for the first time in 1982.

SCHEDULE X: EXAMINATIONS

(a) Final examinations in any subject or part of a subject will be held in one of the examination periods defined by the Council following the course of instruction in that subject or part of a subject.

(b) An examination counting as part of a final examination may be held in a part of a subject if the Faculty so approves. Such examinations will be held during one of the examination periods defined by the Council.

(c) Notwithstanding (a) and (b) above, in special circumstances and with the permission of Council, an examination may be held outside the examination period as defined by the Council.

SCHEDULE XI: PRACTICAL EXPERIENCE

(a) General

A total of sixteen weeks' practical experience is required under regulations 4(b) and 11(e), and this should be completed during the university vacations before beginning the work of the fourth year of the course. A candidate should normally complete the requirements of this schedule before enrolling in the fourth year of the course.

The Faculty may grant either partial or total exemption from the requirements of this schedule to a candidate who produces satisfactory evidence of practical experience obtained before he first enrolled in the Faculty; and in special cases, the Faculty may grant dispensation from the requirements.

Credit will not normally be given for periods of less than three consecutive weeks.

A candidate should seek a variety of practical experience appropriate to his academic level.

Before beginning a period of practical experience, a candidate may ensure that it will be satisfactory to the Faculty by consulting the Chairman of the department concerned. In doubtful cases an inquiry should be addressed to the Dean through the Registrar.

Upon completion of each period of practical experience (and no later than the following 31 March) each candidate is required to submit to the Registrar, on the prescribed form, a statement of practical experience gained, certified by the employer for approval by the Faculty of Engineering.

(b) Chemical Engineering

At least eight weeks of the required sixteen weeks must be spent in an approved chemical factory or research establishment on plant operation or industrial research or development. In addition, during the May vacation in the fourth year, each student must visit at least eight chemical plants.

(c) Electrical and Mechanical Engineering

As part of the sixteen weeks' practical experience specified in clause (a), candidates must complete the course of Workshop Practice arranged by the Faculty, and this will normally be taken in the second year of the course. For the purpose of assessing practical experience, this course will have an equivalent duration of one week.

SCHEDULE XII: HONOURS DEGREE IN ENGINEERING

A candidate for the Honours degree shall complete the final year of the course for the Ordinary degree and in addition shall satisfactorily complete an advanced course of lectures, seminars and project work as set out in the syllabuses for one of the following subjects:

| | |
|-----------------------------------|-------------------------------------|
| NH99 Honours Chemical Engineering | NE99 Honours Electrical Engineering |
| NC99 Honours Civil Engineering | NM99 Honours Mechanical Engineering |

SCHEDULE XIII: TRANSFERS BETWEEN COURSES

The Faculty of Engineering may in special circumstances and subject to such conditions (if any) as it may seem fit to impose in each case, permit a student to transfer from one Engineering course to another, or from any other course in the University or elsewhere to an Engineering course, and to present for the:

Civil Engineering course prescribed in schedule IV, the subject NX31 Engineering IB in place of NX21 Engineering IA, and/or at least one other subject already passed in place of SG01 Geology I or SG3H Geology IH(E) and/or one of the prescribed half-subjects;

Electrical Engineering course prescribed in schedule V, the subject NX21 Engineering IA in place of NX31 Engineering IB and/or at least one other subject already passed in place of SC01 Chemistry I;

Mechanical Engineering course prescribed in schedule VI, the subject NX21 Engineering IA in place of NX31 Engineering IB, and/or at least one other subject already passed in place of SC01 Chemistry I or AY01 Psychology I or EE11 Economics I; and

Chemical Engineering course prescribed in schedule VII, the subject NX31 Engineering IB in place of NX21 Engineering IA, and/or at least one other subject already passed in place of SP01 Physics I.

Any student contemplating such transfer should consult the Chairman of the Engineering Department responsible for the course to which the student wishes to transfer.

OF THE DEGREE OF
BACHELOR OF ENGINEERING
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Pre-requisite subjects:

Unless otherwise stated, a pass in a pre-requisite subject will mean a pass at Division I or higher standard.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

CHEMICAL ENGINEERING.

FIRST-YEAR SUBJECTS.

QM01 Mathematics I.

SP01 Physics I.

SC01 Chemistry I.

For syllabuses see under the degree of B.Sc. in the Faculties of Mathematical Sciences and Science respectively.

NX21 Engineering IA.

For syllabus *see* under Engineering I, immediately after the Mechanical Engineering syllabuses.

SECOND-YEAR SUBJECTS.

QN12 Applied Mathematics IIB.

For syllabus see under the degree of B.Sc. in the Faculty of Mathematical Sciences.

SC22 Chemistry IIE.

For syllabus see under the degree of B.Sc. in the Faculty of Science.

NH12 Chemical Engineering II.

Pre-requisite subjects: Pass at Division I or higher standard in SC01 Chemistry I, QM01 Mathematics I, SP01 Physics I and NX01 Engineering I.

This subject is divided into two parts:

(a) **STRESS ANALYSIS A.**

For syllabus see C201 Stress Analysis A under Engineering II and III, immediately after the Mechanical Engineering syllabuses.

(b) **CHEMICAL ENGINEERING PRINCIPLES.**

Two lectures and two tutorials a week throughout the year covering an introduction to chemical engineering principles and calculations and to fluid handling operations. Nine three hour laboratory sessions and nine three hour sessions devoted to an elementary design problem.

THIRD-YEAR SUBJECTS.

NH13 Chemical Engineering IIIA.

Pre-requisite subjects: Pass at Division I or higher standard in NH12 Chemical Engineering II or NH62 Chemical Engineering IIS and either QN02 Applied Mathematics II or QN12 Applied Mathematics IIB.

LECTURES: Three hours a week throughout the year dealing with the general theory of molecular and turbulent transport of properties, fluid mechanics, heat transfer processes and mechanical processes.

TUTORIALS: Two hours a week throughout the year devoted to problems designed to illustrate the practical applications of the theory covered in lectures.

LABORATORY WORK: Three hours a week throughout the year on quantitative laboratory work designed to illustrate the principles of transport theory and fluid mechanics as applied to unit operations.

Text-books:

Holman, J. P., *Heat transfer*, 4th edition (McGraw-Hill).

A further text-book to be advised.

Foust, A. S., *Principles of unit operations* (Wiley).

NH23 Chemical Engineering IIIB.

Pre-requisite subjects: Pass at Division I or higher standard in NH12 Chemical Engineering II, SC22 Chemistry IIE and either QN02 Applied Mathematics II or QN12 Applied Mathematics IIB.

This subject is divided into three parts:

(a) **THERMODYNAMICS AND KINETICS.**

LECTURES: Approximately 45 lectures devoted to chemical engineering thermodynamics, reaction kinetics and reactor design.

TUTORIALS: Approximately 45 hours devoted to problems designed to illustrate the practical applications of the theory covered in lectures.

Text-books:

Smith, J. M., and Van Ness, H. C., *Introduction to chemical engineering thermodynamics*, 3rd edition (McGraw-Hill).

Smith, J. M., *Chemical engineering kinetics*, 2nd edition (McGraw-Hill).

Hamblin, F. D., *Abridged thermodynamic and thermochemical tables S.I. units* (Pergamon).

(b) INTRODUCTION TO PROCESS CONTROL.

LECTURES: One lecture a week for three terms devoted to an introduction to the elements of instrumentation, process control, process dynamics and the elements of digital process control.

TUTORIALS: One hour a week for three terms.

LABORATORY WORK: Three hours a week for three terms.

Text-book:

Weber, T. W., *An introduction to process dynamics and control* (Wiley).

(c) SEMINAR.

Three hours a week in first and second terms. Each student is required to submit an essay at the end of first term and present it at a seminar in second term.

NX93 Engineering IIIH A.

Pre-requisite subjects: Pass at Division I or higher standard in QM01 Mathematics I and NX01 Engineering I.

Parts C201, M202 and E201. Refer schedule IX(b).

OR

NY93 Engineering IIIH B.

Pre-requisite subjects: As for NX93 Engineering IIIH A.

Parts C201, E201 and Q201. Refer schedule IX(b).

For syllabuses see below under Engineering II and III immediately after the Mechanical Engineering syllabuses.

FOURTH-YEAR SUBJECTS.

NH14 Chemical Engineering IVA.

Pre-requisite subject: NH13 Chemical Engineering IIIA.

LECTURES: Three hours a week for two terms devoted to applications of transport theory and of fluid and particle mechanics in the unit operations of chemical engineering.

TUTORIALS: Three hours a week for two terms. Problems studied are of a practical nature, but involve the application of fundamental principles rather than the use of handbooks.

PRACTICAL WORK: Eight hours a week for two terms; a series of projects based on the course of lectures and providing exercise in the preparation of engineering reports.

Text-book:

Students are expected to own a copy of *Chemical engineers' handbook*, 5th edition (McGraw-Hill).

NH24 Chemical Engineering IVB.

This subject is divided into four parts from which the student must take *either* Parts (a), (b) and (c) *or* Parts (b) and (d). A choice may not be available every year.

(a) REACTOR DESIGN.

LECTURES: One hour a week for two terms dealing with advanced kinetics and reactor design.

TUTORIALS: One hour a week for two terms.

PRACTICAL WORK: A total of twenty-four hours to be completed in two terms.

Text-book:

Smith, J. M., *Chemical engineering kinetics*, 2nd edition (McGraw-Hill).

(b) PROCESS DYNAMICS AND CONTROL.

LECTURES: Two hours a week for the first two terms dealing with the principles of (a) process dynamics and simulation, (b) process control, and (c) digital computer process control. The theory is developed to a stage where it may be applied to a wide variety of practical problems in design and operation of chemical process plant.

TUTORIAL: Two hours a week for the first two terms.

PRACTICAL WORK: A total of thirty-six hours to be completed in two terms with experiments illustrating problems in process dynamics simulation and control of simple process plant and including a nine to twelve hour digital simulation project.

Text-book:

Harriott, P., *Process control* (McGraw-Hill).

(c) SEMINAR.

Three hours a week in first and second terms. Each student is required to submit an essay at the end of first term and present it at a seminar in second term.

(d) MATERIALS ENGINEERING.

LECTURES: Two lectures a week for two terms dealing with the following topics: The selection properties and fabrication of materials for engineering applications involving corrosive and high temperature environments, structural and low alloy steels. The relation of structural variables in polymers to their engineering properties, engineering properties of specific polymers. Processing and selection of plastics.

PRACTICAL WORK: Six hours a week for two terms. The course will involve laboratory techniques and experiments related to the lecture course.

Text-books:

Candidates are advised to consult the lecturers about text and reference books in this subject before the beginning of first term.

NH34 Chemical Engineering IVC.

Pre-requisite or concurrent subjects: NH14 Chemical Engineering IVA and NH24 Chemical Engineering IVB.

This subject is divided into two parts.

(a) INDUSTRIAL ECONOMICS AND MANAGEMENT.

LECTURES: Two hours a week for two terms dealing with topics in Industrial Economics and Management.

The lectures deal generally with:

The allocation of scarce economic resources between a number of competing ends; more specifically these lectures deal with the effective allocation of land, labour, capital

and enterprise during all phases of the development and operation of a chemical manufacturing enterprise. The treatment includes research and development, patents, market analysis, plant location, process development, pre-investment estimation, capital investment evaluation, selection and purchase of labour and equipment, construction planning and control, production planning and control, cost planning and control, basic management principles, industrial safety, company control, capital procurement, company finance, and a general treatment of the structure and environment of industry.

(b) PLANT DESIGN.

TUTORIALS: One tutorial a week for two terms dealing with sources and estimation of data, costing and economic analysis of alternative proposals, the application of Process Engineering and Operations Research techniques to the selection, sizing, design and optimisation of equipment and processes, project scheduling and control, and plant operation and safety considerations.

PROJECT: The project occupies approximately 300 hours of full-time work during the months of September-November after the normal Departmental examinations. It involves the economic comparison of alternative processes for the manufacture of a nominated chemical product, the study of a selected process, calculation of material and energy balances, preparation of flow sheets, design of selected plant items, estimation of plant cost and process economics, preparation of a design report and drawing of plant lay-out.

Preliminary reading:

Jones, D. G., *Chemistry and industry* (O.U.P.).

Text-book:

Peters, M. S., and Timmerhaus, K. D., *Plant design and economics for chemical engineers*, 2nd edition (McGraw-Hill).

Subjects for candidates who have completed a degree in the Faculty of Science or Faculty of Mathematical Sciences: (refer Schedule VIII).

NH62 Chemical Engineering IIS.

This course is NH12 Chemical Engineering II, part (b) (Chemical Engineering Principles); it is available throughout the year and may also be offered as a special short course during the long vacation.

For syllabus see NH12 Chemical Engineering II above.

NH63 Chemical Engineering IIIBS.

This subject is divided into three parts.

(a) Materials Science. The syllabus for this part of the subject is as for NH12 Chemical Engineering II, part (a) in the Calendar for 1980.

(b) Introduction to Process Control. The syllabus for this part of the subject is as for NH23 Chemical Engineering IIIB, part (b).

(c) Written report on vacation experience.

NX52 Engineering IIIH.

This course consists of part E201 of Engineering II and III, Electrical Circuits and Machines (*see* Schedule IX(b)).

For syllabus see below under Engineering II and III immediately after the Mechanical Engineering syllabuses.

CIVIL ENGINEERING.

FIRST-YEAR SUBJECTS.

NX21 Engineering IA.

For syllabus see under Engineering I, immediately after the Mechanical Engineering syllabuses.

QM01 Mathematics I.

SP01 Physics I.

For syllabuses see under the degree of B.Sc. in the Faculties of Mathematical Sciences and Science respectively.

AND EITHER

SG3H Geology IH(E).

For syllabus, see below.

AND

One of the following half-subjects having a compatible time-table:

SB5H Environmental Biology IH.

AJ2H Human Geography.

AL2H Logic IH.

EE1G Macroeconomics IH.

EE2G Microeconomics IH.

AL1H Philosophy IH(A).

AJ1H Physical Geography.

OR

SG01 Geology I.

For syllabuses see the table of subjects at the end of this volume.

SG3H Geology IH(E).

A half-subject comprising thirty-six lectures and forty-two hours of practical spread over three terms.

The course is intended for students of engineering who do not propose to continue with geology. It is concerned with the study of geological materials, structures and processes which are relevant to the making of engineering decisions.

Lectures.

Mineralogy and petrology including the weathering of rocks and formation of soils. Geological structures and processes including erosion and deposition, principles of stratigraphy, geological time scale, rock structures, underground water, and geomorphology.

Practical work.

Study of earth materials, interpretation of geological maps and of aerial photographs. Field excursions.

Text-books:

Blyth, F. G. H., and de Freitas, M. H., *A geology for engineers*, 6th edition (Arnold).

McLean, A. C., and Gribble, C. D., *Geology for civil engineers* (Allen and Unwin).

SECOND-YEAR SUBJECTS.

NC02 Civil Engineering II.

Pre-requisite subjects: Pass at Division I or higher standard in QM01 Mathematics I and NX01 Engineering I; and Pass at Division II or higher standard in SP01 Physics I.

The course consists of four lectures a week and seven hours of tutorial, drawing office and practical work each week for three terms.

(a) *Stress Analysis.* Five lecture terms on: stress and strain; statically indeterminate problems involving axially loaded members; torsion of circular shafts—bending moments and shearing forces in beams; normal and shearing stresses—elastic and plastic ranges; deflections of beams; simple statically indeterminate beams; short and long columns; buckling; equilibrium equations—combined stresses—strain energy—failure criteria; compatibility equations—experimental stress analysis; dynamic loading of simple elements; composite beams; unsymmetrical bending; shear centre.

(b) *Structural Analysis and Design.* Three lecture terms on: concepts of structural design; beams and plane frame structures; determinacy and stability; deflection of trusses; three pin arch; influence line for determinate beams. Design of steel tension, compression, and flexural members; welding and design of welded members; bolting and design of bolted connections. Design in timber; properties of timber; connections.

(c) *Surveying.* Two lecture terms on: the level and theodolite; linear measurement; slopes and intersections; areas and volumes; C.O.G.O.; tacheometry; circular, parabolic, and spiral curves.

(d) *Hydraulics.* Two lecture terms on: steady fluid flow as an introduction to hydraulic engineering; description and properties of fluid flow; hydrostatics; laws of inviscid fluid flow; elements of simple models; steady uniform and non-uniform flow in closed conduits; normal flow in open channels.

LABORATORY AND OTHER WORK.

One hour of tutorial each week for three terms and three hours of practical and two hours of drawing office for one term will be given to stress analysis. Three hours a week for two terms will be given to surveying. Three hours a week for one term will be given to hydraulics, and two hours a week for two terms to drawing office studies of a civil engineering structure including its design.

Text-books:

- Clark, D., *Plane and geodetic surveying for engineers*, vol. 1, 6th edition (Constable).
- Higdon, A., and others, *Mechanics of materials*, 3rd edition (Wiley); OR
- Popov, E. P., *Mechanics of materials*, 2nd edition (Prentice-Hall) and *Solution Manual* (Prentice-Hall).
- Bresler, B., and Lin, T., *Design of steel structures*, 2nd edition (Wiley).
- Nash, W. A., *Theory and problems of strength of materials* (Schaum).
- Vennard, J. K., and Street, R. L., *Elementary fluid mechanics*, 5th edition, S.I. version (Wiley); OR
- Streeter, V. L., and Wylie, E. B., *Fluid Mechanics*, 7th edition (McGraw-Hill).
- Norris, C. H., and Wilbur, J. B., *Elementary structural analysis*, 3rd edition (McGraw-Hill).

Standards Association of Australia (Metric Units) as advised.

NX12 Engineering IIC.

Pre-requisite subjects: Pass at Division I or higher standard in QM01 Mathematics I; Pass at Division II or higher standard in SP01 Physics I. A knowledge of matriculation Chemistry will be assumed.

NX12 Engineering IIC is made up of parts E201, E202, and H201 of Engineering II and III. Refer Schedule IX(b).

For syllabuses see under Engineering II and III immediately after Mechanical Engineering syllabuses.

QN12 Applied Mathematics IIB.

For syllabus see under the degree of B.Sc. in the Faculty of Mathematical Sciences.

THIRD-YEAR SUBJECTS.

NC03 Civil Engineering IIIA.

Pre-requisite subjects: Pass in NC02 Civil Engineering II; pass in NX12 Engineering IIC; pass at Division II or higher standard in QN12 Applied Mathematics IIB.

This course consists of three lectures a week for three terms, six hours practical or tutorial work a week for two terms, and four hours practical or tutorial work a week for one term.

(a) HYDRAULICS.

Lectures. A course of six lecture terms on hydraulic engineering design and fluid mechanics; stream functions; non-uniform steady flow in open channels, surface curvature, transistions; unsteady flow in closed conduits; elements of design of pipe lines and networks; hydraulic machines, specific speed, selection of pumps; water resources, hydrologic assessment; hydraulic structures, dissipators, water and waste water treatment; flow around immersed bodies, boundary layer, lift, drag, moment and flutter; measurement of flow.

Practical. Three hours practical or tutorial a week for two terms and one hour a week for one term.

(b) INSTRUMENTATION.

Lectures. A course of three lecture terms on: elements of system engineering applied to instrumentation and data collection and recording; physical measurements, detailed examination of transducers for engineering measurements of strain, displacement, pressure, velocity, acceleration, flow discharge, time, temperature and radio activity; input circuits and signal processing facilities; elements of suitable electronic circuits (amplifiers, oscillators, counting and triggering circuits, filters, etc.); recording media chart, magnetic tape (F.M., digital), C.R.O.; analogue—digital conversion, digital transducers, digital data handling and recording techniques for computer entry; specialised measurement procedures, high speed photography (single shot and cine), radio isotope tagging procedures.

Practical. Laboratory experiments, demonstrations, design seminars and field exercises are intended to illustrate the application of the lecture subject matter.

Text-books:

Rouse, H. (ed.), *Engineering hydraulics* (Wiley); *OR*

Vennard, J. K., and Street, R. L., *Elementary fluid mechanics*, 5th edition, S.I. Units (Wiley); *OR*

Vennard, J. K., and Street, R. L., *Elementary fluid mechanics* 5th edition, S.I. Units (Wiley); *OR*

Streeter, V. L., and Wylie, E. B., *Fluid mechanics*, 7th edition (McGraw-Hill).

NC13 Civil Engineering IIB.

Pre-requisite subjects: Pass in NC02 Civil Engineering II; pass at Division II or higher in QN12 Applied Mathematics IIB.

This course consists of three lectures a week throughout the year and six hours of practical or drawing office a week for two terms and eight hours a week for one term. In addition students will be required to attend a five days practical survey course in the second vacation and a two week survey camp after the end of year examinations.

LECTURES.

(a) *Structural Analysis*. Three lecture terms on: analysis and design of continuous beams and rigid frames by moment distribution and mechanistic plastic concepts; deflection of pin jointed frames; analysis of redundant pin jointed frames; an introduction to principles of virtual work, strain energy and minimum potential energy concepts.

(b) *Concrete Structures*. Three lecture terms on: materials in and properties of concrete; philosophy of limit state design; bending and shear in beams and slabs; analysis and design by working stress and ultimate strength methods; reinforced concrete footings, walls and columns; elastic and ultimate strength methods of design of prestressed and composite concrete beams; loss of stress; bond and anchorage; statically indeterminate prestressed concrete structures.

(c) *Soil Mechanics*. Two lecture terms on: physico-chemical and engineering properties of soils in general; the origin of local soils; permeability; shear strength parameters; active and passive Rankine states in relation to pressure against retaining walls and anchor blocks; elastic equilibrium in soils.

(d) *Surveying*. One lecture term on: aerial photographs, determination of camera location, the photo-theodolite, and on spherical trigonometry, calculations on the spheroid and the Australian Map Grid.

DESIGN PROJECTS.

The analysis and design of (a) a steel and (b) a concrete structure will each occupy three hours a week for half a year.

LABORATORY WORK.

Practical work in the concrete, soils and structural laboratory will each occupy three hours a week for one term.

SURVEY CAMPS.

In the practical survey course students will carry out survey tasks in the neighbourhood of the University. In the survey camp students will carry out field and design tasks, at a site away from the University.

Text-books:

- Craig, R. F., *Soil mechanics*, 2nd edition (van Nostrand Reinhold).
- Basic guide to concrete construction* (Cement and Concrete Association of Australia).
- Australian reinforced concrete design handbook*, 2nd rev. edition (Cement and Concrete Association of Australia).
- Warner, R. F., and others, *Reinforced concrete* (Pitman).
- Warner, R. F., and Faulkes, K. A., *Prestressed concrete* (Pitman).
- Norris, C. H., and Wilbur, J. B., *Elementary structural analysis*, 3rd edition (McGraw-Hill).
- Bresler, B., and Lin, T., *Design of steel structures*, 2nd edition (Wiley).
- National Association of Australian State Road Authorities, *NAASRA bridge design specifications*, 5th edition.

Moffitt, F. H., *Photogrammetry*, 2nd edition (International Textbook Co.).

Australia. National Mapping Council, *Australian map grid, technical manual*, 2nd edition (A.G.P.S.).

Standards Association of Australia:

S.A.A. loading code. AS. 1170-1973, Parts I and 2.

S.A.A. steel structures code. AS. 1250-1975.

S.A.A. code for welding in building. AS. 1554-1974.

S.A.A. code for concrete structures. AS. 1480-1974.

Reinforced concrete detailing manual (Cement and Concrete Association of Australia).

NX53 Engineering IIC.

Pre-requisite subjects: Pass in NC02 Civil Engineering II and NX12 Engineering IIC, pass at Division II or higher standard in QN12 Applied Mathematics IIB.

The course consists of four lectures a week and five hours of drawing office and tutorial.

NX53 Engineering IIC is made up of parts M201, M202, C204 and C205 of Engineering II and III. Refer Schedule IX(b).

For syllabuses see under Engineering II and III immediately after the Mechanical Engineering syllabuses.

FOURTH-YEAR SUBJECTS.

Pre-requisite subjects: NC03 Civil Engineering IIIA, NC13 Civil Engineering IIIB and NX53 Engineering IIC.

CORE COURSE.

The following three subjects will occupy two terms:

NC14 Civil Engineering IVA.

STRUCTURES.

(a) Two lecture terms on: the application of stiffness and flexibility concepts to beams and grillages, two and three dimensional pin-jointed and rigid frames; introduction to the concepts of the finite element method.

(b) Two lecture terms on: the analysis and design of beam-columns; stability of beams; structural behaviour of thin walled members; geometrically non-linear structures.

(c) Two lecture terms on: vibration of structures; design for earthquake and wind; introduction to plate theory; plate buckling.

(d) Tutorials one hour a week for two terms and practical three hours a week for one term.

Text-book:

Cheung, Y. K., and Yeo, M. F., *A practical introduction to finite element analysis* (Pitman).

NC44 Civil Engineering IVB.

(a) SOIL MECHANICS.

Three lecture terms on: field exploration and testing of soils; consolidation theory and settlement prediction; design of foundations and earth-retaining structures; groundwater flow; properties of expansive soils; slope stability analysis; soil stabilisation.

Experimental work in the laboratory occupies three hours a week for one term.

Text-book:

Wilun, Z., and Starzewski, K., *Soil mechanics in foundation engineering*, 2 vols. 2nd edition (Wiley).

(b) TRANSPORTATION.

Two lecture terms and nine tutorials or practicals on: transportation tasks and networks; nodes and links; modes of transport and interchanges; segregation of traffic, parking facilities; intersections. Use will be made of systems engineering and economic and operational analysis.

(c) HYDRAULICS.

Two lecture terms and twenty-seven hours of tutorials/practicals and site visits on: turbulence; flow through porous media; elements of stratified flow, cavitation, steady and unsteady fluid flow forces, dispersion and wind loads.

NC34 Civil Engineering IVC.

(a) MANAGEMENT AND PROFESSIONAL PRACTICE.

Two lecture terms on: tenders, contracts and their variation, labour and human relations, site **organisation and elements of cost control**; private and government engineering organisations; **trusts and boards**; **relations between** professionals and specialists; professional **ethics, responsibilities and liabilities**; acts and powers; arbitration; the engineer and the law; **responsibility to the community** and employer, environmental impacts and **their assessment, legislation controlling building, planning and public health**; regulations under acts.

(b) DESIGNS, PROJECT AND SEMINARS.

Students will be required to carry out two design tasks for which nine hours a week are available in the first one and a half terms.

Students will be required to submit a report on a project of an experimental nature, and give a seminar on a related subject.

Students will be required to satisfactorily complete the work of the survey camps normally held at the end of NC13 Civil Engineering IIIB.

NC64 Civil Engineering IVD.

Each option consists of two lectures and one tutorial a week during the third term. Students will select (subject to approval of the Chairman of the Department) three options from the following:

(a) STRUCTURAL ENGINEERING.

Sixteen lectures and eight tutorials on one of the following topics:

- (i) *Earthquake Engineering*: structural behaviour under earthquake loading; methods of analysis; design procedures.
- (ii) *Concrete Structures*: plasticity concepts, upper and lower bound methods of design; creep and shrinkage effects, serviceability design; detailing; partial prestressing.

- (iii) *Masonry and Brickwork Structures*: properties of bricks, blocks and mortar; strength of masonry in compression, flexure and shear; structural action; design.
- (iv) *Metal Structures*: welding, residual stresses and distortions; fatigue; box girder bridges; light gauge structures.
- (v) *Stability of Structural Systems*: elastic buckling of line members and plate members; inelastic behaviour of members; elastic and inelastic buckling of frames.

(b) FINITE ELEMENT METHOD.

Sixteen lectures and eight tutorials on: finite element procedures, stiffness formulation through energy methods, beam elements, displacement functions, triangular in-plane element, C.S.T. and L.S.T., rectangular plate bending element, triangular element for flow problems.

(c) SOIL MECHANICS.

Introduction to plasticity theory in relation to frictional materials, pressures in bins and silos, foundation design for unstable soils, ground anchors and reinforced earth, interpretation of field and laboratory data.

(d) WATER ENGINEERING.

Sixteen lectures and eight tutorials on two of the following topics:

- (i) *River Engineering*: sediment transport, regime flow and meanders; river training works; flood routing; models.
- (ii) *Coastal and Ocean Engineering*: coastal processes; wave climate and processes; wind and rain effects; coastal structures, groynes, bypassing etc.; wave forces.
- (iii) *Irrigation*: types; crop needs, frequency, layouts, conjunctive supply; supplementary irrigation.
- (iv) *Advanced hydraulic analysis and modelling*: numerical analysis; continuous system simulation; wind tunnel static and dynamic modelling; elements of aero-elasticity; advanced hydraulic models.
- (v) *Advanced Fluid Mechanics*: convective-diffusion analysis; free surface flow instabilities; MAC analysis; finite elements method applications.
- (vi) *Applied Hydrology*: drainage and urban hydrology—wide surface drainage, parking lots, runways, roads; slug flow; gutter entry problems; R.R.L. Method and large system analysis.

(e) TRANSPORTATION.

Sixteen lectures and eight tutorials on: transportation planning; aims, objectives, philosophy; planning as a process; data collection and analysis; models for transportation generation, distribution and modal split; interaction of land use and transport; economic and environmental evaluation of transport investment decisions.

(f) OPTIMISATION AND EVALUATION METHODS.

Sixteen lectures and eight tutorials on the role of economics and operations research methods in civil engineering planning and design. Applications for transportation, water resources and structural engineering.

(g) SPECIAL OPTIONS.

As opportunity allows, special professional options may be offered in Advanced Materials, Systems Analysis, etc.

ELECTRICAL ENGINEERING.

FIRST-YEAR SUBJECTS.

NX31 Engineering IB.

For syllabus see under Engineering I, immediately after the Mechanical Engineering syllabuses.

QM01 Mathematics I.

SP01 Physics I.

SC01 Chemistry I.

For syllabuses see under the degree of B.Sc. in the Faculties of Mathematical Sciences and Science respectively.

SECOND-YEAR SUBJECTS.

QN12 Applied Mathematics IIB.

SP02 Physics II.

For syllabuses see under the degree of B.Sc. in the Faculties of Mathematical Sciences and Science respectively.

NE02 Electrical Engineering II.

Pre-requisite subjects: Pass at Division I or higher standard in NX01 Engineering I, QM01 Mathematics I and SP01 Physics I.

Pre-requisite or concurrent subject: QN12 Applied Mathematics IIB.

Lectures. An average of three lectures a week throughout the year.

Tutorial. Two hours a week throughout the year devoted to the working and discussion of problems, and the discussion of practical and theoretical topics.

Practical. Three hours practical a week throughout the year, comprising a series of experiments and exercises designed to support the subject matter of the lectures.

(a) NETWORK THEORY (35 lectures).

Kirchoff's laws, models and element equations, mesh, node and mixed methods of analysis, free and forced response of networks, convolution, network theorems, steady state a.c. methods, transformers, polyphase systems, resonance and complex frequency, two ports, Laplace and Fourier Transform methods.

(b) ELECTRONICS (26 lectures).

A brief treatment of solid state and vacuum electronics. Solid state devices, their characteristics and equivalent circuits. In particular, rectifiers, limiters, clamps and gates. Single stage amplifiers with resistive and reactive loads. Multistage amplifiers with RC, LC and transformer coupling. High Frequency equivalent circuits and frequency response. Class A, AB and B operation, power amplifiers. Feedback amplifiers. Controlled rectifiers.

(c) ENERGY STORAGE AND CONVERSION (18 lectures).

Physical aspects; the magnetic circuit; a.c. excitation of magnetic structures; transformers. Electromechanical energy conversion principles, stored energy, forces and torques of electromagnetic origin. Theory and operation of d.c. machines.

Text-books:

Close, C. M., *The analysis of linear circuits* (Harcourt, Brace and World).

Gourishankar, V., and Kelly, T., *Electromechanical energy conversion*, 2nd edition (International Textbook Co.).

And EITHER:

Angelo, E. J., *Electronic circuits*, 2nd edition (McGraw-Hill); OR

Alley, C. L., and Atwood, K. W., *Electronic engineering*, 3rd edition (Wiley); OR

Ryder, J. D., *Electronic fundamentals and applications*, 5th edition (Pitman).

Vacation Course in Workshop Practice.

(See Schedule X.)

The course consists of the equivalent of one week full-time instruction in an approved engineering workshop as arranged by the Faculty. The course deals with the basic machine-tools and processes with the aim of developing an understanding of fabrication techniques necessary to modern production processes.

Text-book:

Introduction to manufacturing techniques (S.A. Inst. of Tech., School of Mech. Eng.).

THIRD-YEAR SUBJECTS.

NE13 Electrical Engineering III.

Pre-requisite subjects: Pass in NE02 Electrical Engineering II; pass at Division I or higher standard in QN12 Applied Mathematics IIB.

Pre-requisite or concurrent subject: SP02 Physics II.

Lectures. Four lectures a week throughout the year.

Tutorial. Two hours a week throughout the year devoted to the working and discussion of problems, and the discussion of practical and theoretical topics.

Practical. Practical work of six hours a week, comprising a series of experiments and exercises.

(a) FIELDS, LINES AND GUIDES (26 lectures).

An elementary treatment of transmission lines, plane waves, guided waves and radiation using circuit and field concepts where appropriate. An introduction to waveguides and microwave components.

(b) ENERGY CONVERSION (26 lectures).

Transient analysis of d.c. machines. Steady state performance of three phase induction and synchronous machines. Single phase motors. Symmetrical components.

(c) ELECTRONICS (26 lectures).

A further development of amplifier techniques including operational amplifiers. Modulation and detection. Introduction to computer logic circuits. Multivibrators, astable, bistable and monostable.

(d) CONTROL (18 lectures).

Transfer functions; transient and steady state analyses; root locus; Bode and Nyquist plots; absolute and relative stability; series compensation using root locus and frequency response techniques.

(e) NETWORKS (8 lectures).

An introduction to image parameters and filter theory; convolution; topological methods.

Text-books:

D'Azzo, J. J., and Houpis, C. H., *Feedback control system analysis and synthesis*, 2nd edition (McGraw-Hill).

Alley, C. L., and Atwood, K. W., *Electronic engineering*, 3rd edition (Wiley); OR

Ryder, J. D., *Electronic fundamentals and applications*, 5th edition (Pitman).

Gourishankar, V., and Kelly, T., *Electromechanical energy conversion*, 2nd edition (International Textbook Co.).

Ramo, S., and others, *Fields and waves in communication electronics* (Wiley).

NX23 Engineering IIIE.

Pre-requisite subjects: Pass at Division II or higher standard in SP01 Physics I, pass at Division I or higher standard in QM01 Mathematics I and NX01 Engineering I.

NX23 Engineering IIIE is made up of parts C201 and M202 of Engineering II and III. Refer Schedule IX(b).

For syllabuses see under Engineering II and III immediately after the Mechanical Engineering syllabuses.

QA12 Computing Science IIC.

OR

QM02 Pure Mathematics II.

For syllabuses see under the degree of B.Sc. in the Faculty of Mathematical Sciences.

FOURTH-YEAR SUBJECTS.

NE14 Electrical Engineering IVA.

Pre-requisite subjects: Pass in NE13 Electrical Engineering III; pass at Division II or higher standard in SP02 Physics II.

Lectures. Five lectures a week throughout the year, divided approximately as follows:

(a) MICROWAVE ENGINEERING (18 lectures).

Electromagnetic theory, propagation in free space and in waveguides, fields in guides, modes, coupling, microwave circuit theory, directional couplers, cavities, periodic structures, non-reciprocal components.

(b) ANTENNAS AND PROPAGATION (18 lectures).

Advanced electromagnetism, antenna parameters, theoretical methods: assumed circuit distribution, modal analysis and synthesis, integral equations, geometrical optics; applications to particular antennas, ground wave propagation, ionospheric propagation.

(c) DIGITAL SYSTEMS (27 lectures).

Number systems, arithmetic and logical operations, combinational logic, minimisation techniques, arithmetic units, organisation of a computer, instructions sets and addressing modes, parallel adder, carry look ahead, sequential circuits (asynchronous and clocked), J.K. flip flop, BCD and Gray codes, A/D conversion, memory systems, MSI and LSI logic circuits.

(d) COMMUNICATION THEORY (18 lectures).

Signals and spectra; network theory; random signals and noise; noise in amplifiers; modulation systems; sampling; pulse code modulation; information theory; coding.

(e) DESIGN FOR INTEGRATED CIRCUITS (27 lectures).

Semiconductor preparation, processing and properties, planar technology, component formation and isolation, thick and thin film technology, equivalent circuits, interconnections, design of circuits suitable for integration.

(f) USING A MICROPROCESSOR (6 lectures and 4 laboratory sessions).

Designed to give the student "hands on" experience in using a microprocessor and to give a general background to this area of design.

Text-books:

Allison, J., *Electronic integrated circuits—their technology and designs* (McGraw-Hill).

Blakeslee, T. R., *Digital design with standard MSI and LSI* (Wiley).

Ziemer, R. E., and Tranter, W. H., *Principles of communication* (Houghton Mifflin).

Collin, R. E., *Foundations for microwave engineering* (McGraw-Hill).

Grove, A. S., *Physics and technology of semi-conductor devices* (Wiley).

Artwick, B. A., *Microcomputer interfacing* (Prentice Hall).

NE24 Electrical Engineering IVB.

Pre-requisite subjects: Pass in NE13 Electrical Engineering III; pass at Division II or higher standard in SP02 Physics II.

Lectures. Four lectures a week throughout the year, chosen from the following topics, some of which may be presented as options. Different topics may be substituted according to circumstances.

(a) NETWORKS (18 lectures).

Synthesis of passive and active networks: LC and RC immittances, transfer functions, approximation theory and active RC circuits.

(b) POWER SYSTEMS (18 lectures).

Network representation, components of power systems, network analysis and load flow, power and frequency control, voltage and reactive power control.

(c) CONTROL SYSTEMS (18 lectures).

Performance specifications for control system design. Small signal analysis and describing function techniques for non-linear systems. Introduction to state variable methods. Phase plane techniques. Design of state variable feedback controllers. Controlability and observability. Observers.

(d) ANALOGUE TECHNIQUES (9 lectures).

Linear computing circuits, function generators, multipliers, system simulation, operational amplifiers hybrid computer techniques.

*(e) RELIABILITY (9 lectures).

Reliability as a performance characteristic, definitions, types of failure, probability, confidence levels and limits of mean time between failures, prediction from life test data, testing.

***(f) PHYSIOLOGY (9 lectures).**

The structure and function of human skeletal muscle. Electrical and mechanical properties. Measurement of the electrical activity in muscle in man. Simple spinal reflexes. Tremor.

***(g) ELECTRON DYNAMICS (9 lectures).**

Properties of the atom. Emission and deflection of electrons. The C.R.O., cyclotron, mass spectrometer etc.

***(h) POWER ELECTRONICS (9 lectures).**

Commutation, voltage controllers, controlled rectifiers, inverters. Applications to the control of electrical machines. This course is provided for M.Eng. Sc. candidates but is available for degree candidates.

(i) SPECIALIST LECTURES (20 lectures).

Given by practising engineers from industry and government establishments on topics such as operation of power systems, television techniques, telecommunication and radar.

(j) MACHINE DYNAMICS (18 lectures).

Mathematical modelling of electrical machinery and associated control equipment. Dynamic analysis of industrial drives and generators.

(k) MACHINE LANGUAGE (9 lectures).

Computers as system components, structure of mini computers, instructions, assemblers and loaders, input and output and interrupt features.

***(l) ADVANCED MICROCOMPUTER TECHNIQUES (6 lectures and 4 laboratory sessions).**

The course includes advanced topics in microcomputer applications, interfacing, signal processing chips, multiple processor philosophy and structures and 16-bit micro-processors.

(m) POWER SYSTEM STABILITY (9 lectures).

Power versus angle curves, steady state stability criteria, rotor equation of motion, sequence network representation of asymmetrical faults, transient stability criteria.

*Optional topics: TWO to be selected by candidate.

Text-books:

Fortmann, T. E., and Hitz, K. L., *An introduction to linear control systems* (Dekker).

Weedy, B. M., *Electric power systems*, 2nd edition (Wiley).

NE34 Electrical Engineering IVC.

Pre-requisite subjects: Pass in NE13 Electrical Engineering III; pass at Division II or higher standard in SP02 Physics II.

(a) MANAGEMENT AND INDUSTRIAL ORGANISATION (27 lectures).

Given by visiting lecturers on industrial relations, occupational safety, trade unions, decision making, management accounting, personnel management, industrial legislation, industrial development, international trade, organisation structures, nature of management, patents, trade practices, banking and finance, market research, advertising, etc.

(b) EXPERIMENTAL INVESTIGATION AND SEMINAR (300 hours).

Each candidate will be required to submit reports on one or more projects carried out during the year. This will involve theoretical surveys and the design, development and testing of equipment. The candidate will also be required to present the results of his investigation in the form of seminars and demonstrate his equipment where appropriate.

MECHANICAL ENGINEERING.

FIRST-YEAR SUBJECTS.

NX31 Engineering IB.

For syllabus see under Engineering I, immediately after the Mechanical Engineering syllabuses.

QM01 Mathematics I.

SP01 Physics I.

EITHER

SC01 Chemistry I.

For syllabuses see under the degree of B.Sc. in the Faculty of Mathematical Sciences and Science respectively.

OR

AY01 Psychology I.

For syllabus see under the degree of B.A. in the Faculty of Arts.

OR

EE11 Economics I.

For syllabus see under the degree of B.Ec. in the Faculty of Economics.

SECOND-YEAR SUBJECTS.

QN12 Applied Mathematics IIB.

For syllabus see under the degree of B.Sc. in the Faculty of Mathematical Sciences.

NM02 Mechanical Engineering II.

Pre-requisite subjects: Pass at Division I or higher standard in SP01 Physics I, QM01 Mathematics I and NX01 Engineering I; pre-requisite or concurrent subject: NX42 Engineering IIM.

Introductory courses in the basic laws of thermodynamics and in the analysis of machine elements and manufacturing processes. The course, comprising four lectures and six hours' laboratory and tutorial work a week throughout the year, is presented in four parts:

- Part 1. Thermodynamics.
- Part 2. Production technology.
- Part 3. Machine design.
- Part 4. Machine dynamics.

Preliminary reading:

- Street, A., and Alexander, W., *Metals in the service of man*, 4th edition (Penguin).
How things work, 2 vols. (Paladin).
Krick, E. V., *Introduction to engineering; methods, concepts and issues* (Wiley).
Angrist, S. W., and Hepler, L. G., *Order and chaos: laws of energy and entropy* (Basic Books).

Text-books:

- As for NX31 Engineering IB, plus
Shigley, J. E., *Mechanical engineering design*, 3rd edition (McGraw-Hill).
Van Wylen, G. J., and Sonntag, R. E., *Fundamentals of classical thermodynamics*, S. I. version, 2nd edition (Wiley).
Hickson, D. C., and Taylor, F. R., *Enthalpy—entropy diagram for steam* (S. I. version) (Blackwell).
Schey, J. A., *Introduction to manufacturing processes* (McGraw-Hill).
Mabie, H. H., and Ocvirk, F. W., *Mechanisms and dynamics of machinery* (S.I. version) 3rd edition (Wiley).

NX42 Engineering IIM.

Pre-requisite subjects: Pass at Division I or higher standard in SP01 Physics I, QM01 Mathematics I and NX01 Engineering I.

NX42 Engineering IIM is made up of parts C202, C203 and H201 of Engineering II and III. Refer Schedule IX(b).

For syllabuses see under Engineering II and III immediately after the Mechanical Engineering syllabuses.

THIRD-YEAR SUBJECTS.

NM03 Mechanical Engineering IIIA.

Pre-requisite subjects: Pass in NM02 Mechanical Engineering II and NX42 Engineering IIM; pass at Division I or higher standard in QN12 Applied Mathematics IIB.

An introductory course in heat transfer, fluid mechanics, automatic control, and in the engineering applications of thermodynamics, including about 104 lectures and tutorials and 80 hours' laboratory work.

(a) THERMODYNAMICS AND HEAT TRANSFER.

Behaviour of gases, gas mixtures and gas-vapour mixtures. Introduction to combustion. Ideal cycle analysis of engineering systems. Introduction to the three modes of heat transfer, i.e. conduction, convection and radiation.

Text-books:

- Van Wylen, G. J., and Sonntag, R. E., *Fundamentals of classical thermodynamics*, S.I. version, 2nd edition (Wiley).
Haywood, R. W., *Thermodynamic tables—S.I. units*, 2nd edition (C.U.P.).
Holman, J. P., *Heat transfer*, 4th edition (McGraw-Hill).

(b) FLUID MECHANICS.

A course of lectures and experiments which includes: forces and acceleration in fluid flows; conservation laws applied to fluid flow; flow systems and incompressible flow machines; dimensional analysis and similarity; potential flow; circulation and aerofoil theory; an introduction to turbulence and boundary layer theory.

Text-books:

- Sabersky, R. H., and others, *Fluid flow: a first course in fluid mechanics*, 2nd edition (Macmillan); OR
Duncan, W. J., and others, *Mechanics of fluids*, S.I. Unit edition (Arnold).

(c) AUTOMATIC CONTROL.

An introductory course of eighteen lectures which includes: properties of closed loop systems; Laplace transform and transfer functions; block diagrams; transfer functions of real systems; synthesis of control loops; proportional, derivative and integral action; error constants; characteristic roots; Routh's criterion; root locus methods.

Text-book:

Raven, F. H., *Automatic control engineering*, 3rd edition (McGraw-Hill).

NM13 Mechanical Engineering IIB.

Pre-requisite subjects: Pass in NM02 Mechanical Engineering II and NX42 Engineering IIM; pass at Division I or higher standard in QN12 Applied Mathematics IIB.

An introductory course in mechanical system dynamics and design, including lectures, tutorials, design tutorials and laboratory work.

(a) MECHANICAL DYNAMICS.

Kinematics and dynamics of machinery, including spur bevel, helical and worm gearing; universal couplings; cams and linkages; gyroscopes; flywheel crank effort diagrams; synthesis; force analysis of plane mechanisms; dynamic balancing of rotating and reciprocating systems; free vibrations; whirling of shafts.

Text-book:

Martin, G. H., *Kinematics and dynamics of machines* (McGraw-Hill).

(b) MECHANICAL DESIGN.

A course of lectures and tutorials on the design of machine elements and power transmission systems. The application of technical design factors when influenced by economic factors, current practice and manufacturing methods. Materials and their use; fabrication processes; the use of stock components; the application of combined stresses and theories of failure; fatigue and creep; factors of safety and design stresses; applications of basic principles in the design of shafts subject to combined loading; bearings, couplings and clutches; belt drives, gearing, brakes and other machine components and assemblies.

Text-books:

Shigley, J. E., *Mechanical engineering design*, 3rd edition (McGraw-Hill).

Standard specifications and codes of practice as required.

NX73 Engineering IIIM A.

Pre-requisite subjects: Pass in NM02 Mechanical Engineering II and NX42 Engineering IIM; pass at Division I or higher standard in QN12 Applied Mathematics IIB.

Parts E201, E202 and Q201. Refer schedule IX(b).

OR

NX83 Engineering IIIM B.

Pre-requisite subjects: As for NX73 Engineering IIIM A.

Parts E201, E202 and H202. Refer schedule IX(b).

For syllabuses see under Engineering II and III immediately after the Mechanical Engineering syllabuses.

FOURTH-YEAR SUBJECTS.

Except by special permission of the Faculty of Engineering a student shall not proceed to any subject in the fourth year of the course until he has completed the first three years of the course.

NM24 Mechanical Engineering IVA.

Pre-requisite subjects: All subjects included in the first three years of the Mechanical Engineering course, except by special permission of the Faculty of Engineering.

An advanced course in fundamental and applied thermodynamics, heat transfer, fluid mechanics and engineering acoustics. The course is covered by about 90 lectures and tutorials and 120 hours' of laboratory or project work.

(a) THERMODYNAMICS.

A course of lectures and laboratory work in thermodynamics. Including advanced thermodynamics of fluids with application to internal combustion engines, gas turbines, steam turbines, refrigeration, psychrometry and air conditioning, compressed air; fuels and combustion.

Text-books:

Van Wylen, G. J., and Sonntag, R. E., *Fundamentals of classical thermodynamics*, S.I. version, 2nd edition (Wiley).

Threlkeld, J. L., *Thermal environmental engineering*, 2nd edition (Prentice-Hall).

Cohen, H., and others, *Gas turbine theory*, 2nd edition (Longmans).

Glassman, I., *Combustion* (Academic Press).

American Society of Heating, Refrigerating and Air-conditioning Engineers, *Ashrae handbook: Fundamentals, Systems, Equipment, Applications*.

(b) FLUID MECHANICS.

A course of lectures and laboratory work in fundamental and applied fluid dynamics including: laminar and turbulent boundary layers; compressible fluid flow; compressible flow machines.

Text-books:

Liepman, H. W., and Roshko, A., *Elements of gas dynamics* (Wiley).

Duncan, W. J., Thom, A. S., and Young, A. D., *Mechanics of fluids*, S.I. version, 2nd edition (Arnold); OR

Sabersky, R. H., and others, *Fluid flow, a first course in fluid mechanics*, 2nd edition (Macmillan).

(c) ENGINEERING ACOUSTICS.

A course of lectures and laboratory work in fundamentals of sound wave description and propagation, the hearing mechanism, instrumentation, criteria, sound power of sources, sound in rooms, acoustic enclosures, vibration isolation for noise control and sound power estimation schemes.

Text-book:

Bies, D. A., and Hansen, C. H., *Engineering acoustics* (Department of Mechanical Engineering, University of Adelaide) (available from the Department).

NM34 Mechanical Engineering IVB.

Pre-requisite subjects: All subjects included in the first three years of the Mechanical Engineering course, except by special permission of the Faculty of Engineering.

An advanced course of lectures, tutorials and laboratory work in mechanical system dynamics and design, involving lectures and tutorials and laboratory and drawing office tutorial work.

(a) MECHANICAL DYNAMICS.

A course in system dynamics including *Mechanical vibrations*: Vibration isolation, accelerometers, dynamic absorbers, vehicle suspension; multi-degree-of-freedom systems, normal coordinates and principal modes, matrix iteration methods, Holzer method for torsional systems; analysis of continuous systems; application of Lagranges equation; non-linear and self-excited vibrations.

Automatic control: Frequency response of linear dynamic systems; transportation lags; Nyquist stability criterion, and Bode diagrams; compensation; closed-loop frequency response; analogue computing.

Text-books:

- Thomson, W. T., *Theory of vibration with applications* (Prentice-Hall); OR
Thomson, W. T., *Vibration theory and applications* (Allen and Unwin).
Raven, F. H., *Automatic control engineering*, 3rd edition (McGraw-Hill).

(b) MECHANICAL DESIGN.

A course of lectures and drawing office tutorial work on advanced aspects of the design of machine members, mechanical assemblies and systems; mathematical and experimental stress analysis, fatigue, creep, design for high speed operation; the economics of product design, and design in relation to manufacturing method.

The work includes a design project involving many aspects of engineering science and practice including thermodynamics, fluid mechanics, dynamics of machines, stress analysis, social and economic factors.

Text-books:

- As for Mechanical Engineering IIA, IIIA and IIB and IIIB, together with Timoshenko, S. P., and Goodier, I. N., *Theory of elasticity*, 3rd edition (McGraw-Hill).

NM44 Mechanical Engineering IVC.

Pre-requisite subjects: All subjects included in the first three years of the Mechanical Engineering course, except by special permission of the Faculty of Engineering.

1. Two seminars are to be presented by each final-year student on selected topics, one sociological and one technical.
2. A limited research-type project is undertaken by each student during the final year, and involves a written thesis submitted by the end of November.
3. A major design project is undertaken by each student during the final year and is to be presented by the end of November.

NM85 Engineering Management IV.

Pre-requisite subjects: All subjects included in the first three years of the Mechanical Engineering course, except by special permission of the Faculty of Engineering.

This course, covering certain of the more important managerial and non-technical factors that regulate the practice of Engineering, has been designed to meet the requirements of the engineering student about to enter professional practice.

The course is given in two parts which must be taken concurrently. Part A is concerned with the principles of organisation and management and Part B with accounting principles from an engineering viewpoint.

PART A. INDUSTRIAL ORGANISATION AND MANAGEMENT.

Part A comprises one lecture a week throughout the year and several visits to engineering works. The course gives an introduction to economic development, forms of business ownership, business finance, industrial organisation, industrial engineering, quality control, plant location and layout, industrial relations, and linear programming as an aid to business decision making.

Text-book:

- Riggs, J. L., *Production systems: planning, analysis, and control*, 2nd edition (Wiley).

PART B. ESSENTIALS OF ACCOUNTING.

Part B comprises one lecture a week and one tutorial a fortnight for two terms. Written assignments will be set each fortnight. The course covers the double-entry framework and the recording of business transactions; preparation of accounting reports for different kinds of accounting entities; analysis and interpretation of accounting reports; limitations of accounting data; evaluation of capital expenditure projects.

Text-book:

Anthony, R. N., *Essentials of accounting*, 2nd edition (Addison-Wesley).

ENGINEERING I.

NX21 Engineering IA.

There are no formal pre-requisites for NX21 Engineering IA but a knowledge of Matriculation Mathematics I and II and Physics will be assumed.

There are three component parts of the course.

1. ENGINEERING MECHANICS.

A course of 44 lectures and 18 tutorials covering the following topics:

Nature of mechanics. Logic and method. Particles and rigid bodies. Rectilinear motion; speed, velocity, acceleration, rest state. Forces at rest, static equilibrium; forces in motion, moving equilibrium; Newton's laws.

Resultant of coplanar forces and spatial force and couple systems. Vectorial representation. Solution of pinjointed frames. Transverse and axial loadings. Bending moment and shear force diagram. Centroid, centre of pressure. Moments and products of inertia and related theorems. Elements of hydrostatics. Virtual work.

Kinematics of particles and rigid bodies: rectilinear, and curvilinear motion; motion relative to moving axis. Kinetics of particles and rigid bodies: work, energy, power, momentum in mechanical systems. Conservation of energy and momentum.

2. ENGINEERING DRAWING.

A course of 16 lectures, and about 17 drawing office sessions each of 3 hours, aims to develop in the student an ability to read and understand engineering drawings, an appreciation of the process of engineering design and its relationship to drawing, and an understanding of the limitations of technical drawing as a medium for communicating information and specifying technical ideas. The course includes: first and third angle projection; pictorial projection; sketching; drawing conventions; manufacturing processes; functional dimensioning; limits and fits; interchangeable assemblies; design method.

3. ENGINEERING PLANNING AND DESIGN.

A course of 18 lectures and eight tutorials covering: the nature of engineering work, historical and social aspects of engineering, engineering methodology, problem identification, formulation of alternative proposals, optimal solutions. A project involving engineering investigation and design will take up eight 3-hour study sessions and will require a final report.

Preliminary reading:

Krick, E. V., *Introduction to engineering: methods, concepts and issues* (Wiley).

Text-books:

Meriam, J. L., *Engineering mechanics*, Vol. I *Statics* and Vol. II *Dynamics*; OR *Combined volume statics and dynamics* (Wiley, 1979); OR

Beer, F. P., and Johnston, E. R., *Mechanics for engineers*, 3rd edition (McGraw-Hill).

The Institution of Engineers, Australia, *Australian engineering drawing handbook: basic principles and techniques* (AS CZ1, Part 1—1977).

Giesecke, F. E., and others, *Technical drawing*, 7th International Student Edition (Collier-Macmillan).

Chiswell, B., and Grigg, E. C. M., *S.I. units* (Wiley).

Imperial College of Science and Technology, *Data and formulae for engineering students*, 2nd edition, by J. C. Anderson and others (Pergamon).

NX31 Engineering IB.

There are no formal pre-requisites for NX31 Engineering IB but a knowledge of Matriculation Mathematics I and II and Physics will be assumed.

There are three component parts of the course.

1. ENGINEERING MECHANICS. } As for NX21 Engineering IA.
2. ENGINEERING DRAWING. }
3. INTRODUCTORY ELECTRICAL ENGINEERING.

A course of 18 lectures and eight tutorials covering the following topics:

Fundamentals of electromechanical energy conversion systems. Forces and energy storage. Energy balance equation. Elementary machines and transformers. Power loss and efficiency as factors influencing design. Applications of some devices.

The place of digital electronics including microprocessors. Electronic switches and logic circuits. Microprocessor—elements, operations, architecture, programming, applications.

There will also be provision for eight laboratory sessions each of 3 hours.

Preliminary reading and text-books:

As for NX21 Engineering IA.

ENGINEERING II AND III.

CHEMICAL ENGINEERING:

NX52 Engineering IIIH.
E201.

NX93 Engineering IIIH A.
C201, M202, E201.

NY93 Engineering IIIH B.
C201, E201, Q201.

CIVIL ENGINEERING:

NX12 Engineering IIC.
E201, E202, H201.

NX53 Engineering IIIC.
M201, M202, C204, C205.

ELECTRICAL ENGINEERING:

NX23 Engineering III E.
C201, M202.

MECHANICAL ENGINEERING:

NX42 Engineering IIM.
C202, C203, H201.

NX73 Engineering IIIM A.
E201, E202, Q201.

NX83 Engineering IIIM B.
E201, E202, H202.

C201 STRESS ANALYSIS A.

The course consists of one lecture a week throughout the year and the equivalent of three hours a week of laboratory work for one term.

The following topics will be covered:

Stress and strain, normal and shear. Tensile, compressive, and torsion tests to destruction. Elastic and plastic states. Load deformation relation for bars and columns. Torsion of tubes and shafts. Bolted and rivetted joints. Thin walled pressure vessels. Distribution of stress due to bending, curvature moment relations, and deflections of simply supported and encastré beams by integration and moment area methods. Shear. Introduction to composite and reinforced beams. Plastic moments, simple plastic analyses of redundant beams. Buckling of columns.

Text-books:

Stephens, R. C., *Strength of materials* (Arnold); OR

Case, J., and Chilver, A. H., *Strength of materials and structures*, 2nd edition (Arnold).

C202 STRESS ANALYSIS B.

The course consists of one lecture a week throughout the year and the equivalent of three hours a week of laboratory work for one term.

The following topics will be covered:

Mechanical properties of materials, stresses and strains, normal and shear, stress-strain relationships, temperature stresses, elastic theory. Cylinders; thick and thin walled theories. Torsion in round shafts and tubes. Beams; distribution of stress due to bending, curvature-moment relationships. Beams; longitudinal and normal shear stresses. Beams; composite and reinforced bending stresses. Beams; deflections of simply supported and encastré beams by integration and moment area methods. Statically indeterminate beams. Columns; short, eccentric loads; long, buckling loads, tie-bars. Combined stresses, failure theories, stress concentration. Experimental stress analysis to illustrate the above.

Text-books:

Stephens, R. C., *Strength of materials* (Arnold); OR

Case, J., and Chilver, A. H., *Strength of materials and structures*, 2nd edition (Arnold).

C203 STRUCTURAL ENGINEERING.

The course consists of one lecture a week throughout the year and three hours' practical or design work a week for two terms.

The following topics will be covered:

Design of tension and compression members. Statically indeterminate problems in tension and compression. R.C. columns. Riveted, bolted and welded joints. Beams; built-up beams, composite beams, R.C. and prestressed concrete beams. Statically indeterminate beams—moment distribution—slope deflection equations. Simple trusses and rigid jointed frames, simple foundations, slabs.

Text-books:

Standards Association of Australia:

S.A.A. code for concrete structures, AS. 1480-1974.

S.A.A. steel structures code, AS. 1250-1975.

M201 VIBRATION, CONTROL AND HEAT TRANSFER.

The course consists of one lecture a week throughout the three terms plus nine tutorials; one topic is covered in each term.

Vibration: Single degree of freedom systems; vibration analysis by energy methods; vibration analysis by wave methods.

Control: properties of closed loop systems; the Laplace transform; transfer functions; block diagrams; proportional, derivative and integral control; stability analysis by Routh's criterion.

Heat Transfer: Steady and unsteady conduction, convection and radiation including solar radiation.

Text-books:

Timoshenko, S., and others, *Vibration problems in engineering*, 4th edition (Wiley).

Raven, F. H., *Automatic control engineering*, 3rd edition (McGraw-Hill).

Holman, J. P., *Heat transfer*, 4th edition (McGraw-Hill).

M202 MACHINE DESIGN.

The course consists of one lecture and three hours of drawing-office tutorial work a week throughout the year on the fundamentals of design of machine elements and power transmission systems.

Text-book:

Shigley, J. E., *Mechanical engineering design*, 3rd edition (McGraw-Hill).

E201 ELECTRICAL CIRCUITS AND MACHINES.

The course consists of one lecture a week throughout the year and the equivalent of three hours a week of laboratory work for one term.

The lecture course comprises:

(a) One lecture a week for one term devoted to network theory, including transient and steady state analysis of simple networks, network theorems, and the solution of three-phase networks.

(b) One lecture a week for one term devoted to self and mutual inductance and coupled coils, magnetic circuits and the calculation of m.m.f. transformers, direct current motors and generators.

(c) One lecture a week for one term devoted to synchronous motors, and generators, single phase and three-phase induction motors, and machine characteristics.

Practical work in the laboratory is designed to illustrate the subject matter of the lectures.

Text-book:

Smith, R. J., *Circuits, devices and systems*, 3rd edition (Wiley).

E202 ELECTRONICS.

The course consists of one lecture a week throughout the year and the equivalent of three hours a week laboratory work for one term.

(a) *Digital Electronics*: Selected topics in circuit theory, logical concepts, switching algebra, truth tables, digital circuit elements, counters, memory devices and wave shaping circuits.

(b) *Microcomputers*: Number systems, microcomputer architecture, programming techniques and applications.

(c) *Semiconductors*: Diodes and bipolar transistors, construction, characteristic curves, small signal parameters, equivalent circuits, common emitter amplifiers, field effect transistors, silicon controlled rectifier circuits and integrated circuits.

(d) *Linear Circuits*: Feedback, operational amplifiers, characteristics and applications.

Practical work in the laboratory is designed to illustrate the subject matter of the lectures.

H201 ENGINEERING MATERIALS.

The course consists of one lecture a week throughout the year and the equivalent of three hours a week of laboratory work for one term.

The following topics will be covered:

Stress strain behaviour in the real and idealised state; atomic bonding and packing; crystal structure; X-rays; the formation of polycrystalline materials; structure and properties of ceramics; equilibrium and non-equilibrium phase reactions; heat treatment; metallography and selection of steels, cast irons, aluminium alloys and copper alloys; deformation and failure of crystalline materials; corrosion; the structure, properties and applications of polymeric materials.

Text-book:

Guy, A. G., *Introduction to materials science* (International Student Edition) (McGraw-Hill).

H202 MATERIALS ENGINEERING.

A course of lectures and practical work from the following topics:

The metallography, properties and heat treatment of alloy steels, stainless steels, cast irons, aluminium alloys and copper-based alloys; the selection of tool steels; the processes and metallurgy of welding; the plastic deformation and failure of metals and alloys; corrosion; the structure and properties of polymeric materials.

Q201 MATHEMATICS III (ENGINEERING).

Pre-requisite to this part: A pass in QN12 Applied Mathematics IIB at Division I or higher standard.

The course consists of eighteen lectures each term throughout the year. The course is taken from units on differential equations and optimisation that are offered in the subject QN03 and a complex analysis course given by the Pure Mathematics Department.

C204 NUMERICAL ANALYSIS IN ENGINEERING.

Three lecture terms and 13 tutorials on numerical methods in solving civil engineering problems.

Text-book:

Crandall, S. H., *Engineering analysis* (McGraw-Hill).

C205 ENGINEERING ECONOMICS AND PLANNING.

Three lecture terms and 13 tutorials on: criteria for decision making and economic analysis including cost benefit, present value, and discounted net benefits; P.E.R.T.-C.P.M. with constraints and resource scheduling; analysis of systems including organisation, models and their validation, input-output relations and sensitivity analysis; economics; examples from engineering practice; concepts of safety in engineering.

HONOURS DEGREE OF BACHELOR OF ENGINEERING

The additional work for the Honours degree, required under schedule XI, is taken concurrently with that of the final year of the Ordinary degree course. The total amount of it is intended to be equivalent to a work load of about 100 hours, although the relative emphasis placed on lectures, seminars and project work is not the same in all departments.

NH99 Honours Chemical Engineering.

Candidates are required:

- (a) To complete satisfactorily a series of nine lectures at an advanced level on each of two topics to be selected from a list which will be made available to Honours candidates before the commencement of each academic year.
- (b) To undertake additional project work of at least fifty hours more than that prescribed for the Ordinary degree.

NC99 Honours Civil Engineering.

Candidates are required:

- (a) To complete satisfactorily a course of sixteen lectures and eight tutorials, on one of the topics listed below, or other topics selected by the Department:
 - (i) Finite Elements and Structural Analysis.
 - (ii) Advanced Structural Design.
 - (iii) Advanced Soil Mechanics.
 - (iv) Systems Planning and Analysis.
 - (v) Advanced Hydraulics.
 - (vi) Transportation Engineering.
- (b) To undertake a project which is more demanding and which will require approximately fifty hours additional project work than that prescribed for the Ordinary degree.

NE99 Honours Electrical Engineering.

Candidates are required:

- (a) To complete satisfactorily a series of about two lectures a week at an advanced level on the topics listed below or on other topics, depending on circumstances.
 - (i) *Antennas*. Frequency independent antennas. The phased array as a sampled aperture. Periodic array synthesis. Adaptive beam forming. Adaptive nulling.
 - (ii) *Communication Theory*. Detection of signals in noise, classification of signals and receivers, coherent or synchronous detection, matched filter, minimum mean square error filters, decision theory, Bayes criterion, ideal observer, minimax criterion, Neyman-Pearson criterion, operating characteristic, best estimates.
 - (iii) *Signal Processing*. Orthogonal functions and transforms, ubiquity of convolution, exponential transforms—Fourier, Laplace, z, sources of orthogonal functions, discrete and fast transforms, circular convolution, time-bandwidth product, spectral estimation, Fourier transforms in nature, holography, spectral analysis, digital filters.

Text-books:

Oppenheim, A. V., and Schaffer, R. W., *Digital signal processing* (Prentice-Hall);
OR

Childers, D. G., and Durling, A., *Digital filtering and signal processing* (West).

(iv) *Control*. Introduction to multi-variable control theory.

Text-book:

Rosenbrock, H., *Computer-aided control system design* (Academic Press).

- (v) *Generalised Systems*. Nature of systems engineering. Classification methods for complex systems. Effective computability, the quantal limit. Linear programming. Theory of games. Dynamic programming. Integer programming. Nonlinear optimisation methods. Factor analysis of data matrices.
 - (vi) *Microwave devices*. Linear beam tubes. Crossed field tubes. Microwave transistors. Transferred electrode devices. Avalanche transit-time devices. Parametric devices. Microwave integrated circuits.
- (b) To undertake a project which is in general more demanding than that prescribed for the Ordinary degree.

NM99 Honours Mechanical Engineering.

Candidates are required:

- (a) To complete satisfactorily one course of eighteen lectures from the following (if available), or from such other courses as the Department may arrange:
- (i) Numerical Methods.
 - (ii) Turbulence.
 - (iii) Solar Energy.
 - (iv) Random Vibrations.
 - (v) Energy Systems Management.
 - (vi) Industrial Noise Control.
- (b) To undertake more demanding design and research projects, involving at least 50 hours of additional work over and above that required for the Ordinary degree.

OF THE DEGREE OF
MASTER OF ENGINEERING
REGULATIONS

1. Subject to these regulations, a person who has been admitted in the University of Adelaide to either the Ordinary or the Honours degree of Bachelor of Engineering may proceed to the degree of Master of Engineering; provided that persons who have or have had a substantial association with the University may be accepted as candidates for the degree on such conditions as the Faculty may prescribe.

2. To qualify for the degree a candidate shall:

- (a) submit in writing to the Academic Registrar for approval by the Faculty of Engineering the subject on which he proposes to present a thesis;
- (b) not earlier than three academic terms after the approval of the subject by the Faculty, present a thesis which should be a significant contribution to the practice of engineering.* The thesis may be:
 - (i) an original design for some engineering work; *or*
 - (ii) an account, giving evidence of ability on the part of the candidate to cope successfully with engineering difficulties, of some engineering work for the design or construction of which the candidate has been largely responsible; *or*
 - (iii) an account of some original research, development, inquiry or investigation made by him into some matter involved with engineering;
- (c) if so required by the Faculty, adduce evidence to its satisfaction of the originality of, and the degree of his responsibility for, the work embodied in his thesis; and
- (d) if so required by the Faculty pass an examination, written or oral or both, in the field of study immediately relevant to his thesis.

3. (a) On completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.†

(b) Unless the Faculty expressly approve an extension of time in a particular case the thesis shall be submitted within twelve academic terms from the date of approval of the candidate's subject by the Faculty.

(c) On submission of the thesis the Faculty shall nominate examiners, who may recommend that the thesis:

- (i) be accepted, with or without conditions; *or*
- (ii) be sent back to the candidate for revision, and re-submission within such time as the Faculty may allow; *or*
- (iii) be rejected.

4. A candidate who fulfils the requirements of these regulations and satisfies the examiners under regulations 2 and 3 may, on the recommendation of the Faculty, be admitted to the degree of Master of Engineering.

Regulations allowed 15 January, 1976.

*FOOTNOTE (note forming part of the regulations): Contributions should be clearly recognisable as more than competent applications of standard engineering practice and should usually be related to professional work done outside the University. No provision is made for academic supervision.

†Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF

MASTER OF ENGINEERING SCIENCE

REGULATIONS

1. There shall be a degree of Master of Engineering Science.
2. The following may be accepted as a candidate for the degree:
 - (a) a person who has qualified in the University of Adelaide for the Honours degree of Bachelor of Engineering; *or*
 - (b) a person who holds in another university a qualification accepted by the Faculty of Engineering as being equivalent† to the Honours degree of Bachelor of Engineering in the University of Adelaide; *or*
 - (c) a person who has qualified in the University of Adelaide for the degree of Bachelor of Engineering or who holds in another university a qualification accepted by the Faculty of Engineering as being equivalent† to the degree of Bachelor of Engineering in the University of Adelaide, and who has had at least three years of appropriate practical experience approved by the Faculty.
3. With the approval of the Council the Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under regulation 2, but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
4. A candidate shall be admitted on probation. The period of probation shall not exceed six months in the case of a full-time candidate nor twelve months in the case of a part-time candidate. At the end of the period each candidate's performance shall be reviewed by the Faculty of Engineering and his candidature confirmed, with or without special conditions, or terminated.
5. A candidate's progress shall be reviewed by the Faculty at the end of each academic year. If, in the opinion of the Faculty of Engineering, a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate his candidature.
6. To qualify for the degree a candidate shall:
 - (a) on completion of any preliminary work which may be prescribed in the schedules and after consultation with the Chairman of the department in which the majority of his work falls, submit in writing to the Academic Registrar, for approval by the Faculty, the programme of advanced study and project work as prescribed in the schedules and designed to extend over either one calendar year if taken full-time or not less than two and not more than five calendar years if taken part-time;
 - (b) undertake an approved programme of advanced study and project work under the direction of a supervisor or supervisors who shall be members of the full-time academic staff of the University and appointed by the Faculty, but in special circumstances the Faculty may also appoint an external supervisor;
 - (c) pass such examinations on his course of advanced study as may be required by the Faculty; and
 - (d) present a thesis embodying the results of his project work.

† "Equivalent" shall refer to both academic and professional equivalence.

7. (a) Except by permission of the Faculty, the whole of the work for the degree must be completed within the University.

(b) If for academic reasons the Faculty so permits, parts of the study may be undertaken at other tertiary educational institutions, but such parts shall not however count for more than one-sixth of the work for the degree.

(c) Subject to such conditions as it may determine in each case, the Faculty may permit project work to be undertaken outside the University provided that it can be satisfied:

- (i) that this will result in mutual academic benefit to the candidate and his supervising department;
- (ii) that there will be adequate contact and interaction between the candidate and his supervising department; and
- (iii) that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.

8. A candidate may not count a subject or closely related subject or part of a subject already presented for another degree or diploma.

9. (a) On completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

(b) Unless the Faculty expressly approves an extension of time in a particular case the thesis shall be submitted within six months of the completion of the candidate's programme.

(c) On submission or re-submission of the thesis the Faculty shall nominate examiners who may recommend that it:

- (i) be accepted, with or without conditions; *or*
- (ii) be accepted, with or without conditions, subject to satisfactory oral examination;
or
- (iii) be sent back to the candidate for revision; *or*
- (iv) be rejected.

10. A candidate who fulfils the requirements of these regulations may, on the recommendation of the Faculty, be admitted to the degree of Master of Engineering Science.

Regulations allowed 23 January, 1975.

Amended: 15 Jan. 1976: 3; 23 Dec. 1976: 6,7; 2 Feb. 1978: 6,7; 8 Feb. 1979: 7.

*Published in "Notes and Instructions to candidates for Higher Degrees": *see* Table of Contents.

OF THE DEGREE OF
MASTER OF ENGINEERING SCIENCE
SCHEDULES

(Made by the Council under regulation 6.)

SCHEDULE I: PRELIMINARY WORK

1. A person whose qualifications have been accepted under either section (a) or section (b) of regulation 2 shall be deemed to have satisfied the requirements of this schedule.
2. Before being admitted either under section (c) of regulation 2 or under regulation 3 a person shall complete the requirements of this schedule by undertaking, and satisfying the examiners in, such courses of study and/or other work as may in his case be prescribed by the Faculty of Engineering.

SCHEDULE II: COURSES OF STUDY AND PROJECT WORK

The programme of study and project work shall consist of:

- (a) supervised project work which may make up the whole of the work but which shall be not less than one-third of the work for the degree;
- (b) graduate courses and seminars which may make up not more than two-thirds of the work for the degree; and
- (c) other relevant courses, which may make up not more than one-third of the work for the degree, as may be prescribed by the Faculty of Engineering.

OF THE DEGREE OF
MASTER OF ENGINEERING SCIENCE
(COURSE WORK)
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

MASTER OF ENGINEERING SCIENCE.

This degree is awarded on the satisfactory completion of a programme of work, normally undertaken within the University, designed to extend over either one calendar year if taken full-time, or not less than two and not more than five calendar years if taken part-time. It will involve supervised project work, and may also include advanced study. The credit obtained for advanced study courses shall not make up more than two-thirds of the work for the degree. A thesis embodying the results of the project work, shall be submitted within six months of the completion of the candidate's programme.

Courses for each candidate are selected in consultation with an adviser to graduate students, and may, within limits, include undergraduate and postgraduate courses given in other faculties. Courses available in departments within the Faculty of Engineering are listed below, and will be offered according to demand. Additional courses may be available in special circumstances.

- NH05 Chemical Engineering for M.Eng.Sc.**
(One-third Course Work).
- NH06 Chemical Engineering for M.Eng.Sc.**
(Two-thirds Project Work).
- NH08 Chemical Engineering for M.Eng.Sc.**
(By Thesis Only).
- NC05 Civil Engineering for M.Eng.Sc.**
(One-third Course Work).

NC15 Civil Engineering for M.Eng.Sc.

(Two-thirds Course Work).

| | |
|--|---|
| C521 Reinforced Concrete Design | C527 Coastal Zone Dynamics |
| C522 Prestressed Concrete Design | C528 Transients in Fluids |
| C523 Design of Steel Structures | C529 Special Topics in Structural Engineering |
| C524 Foundation Analysis and Design | C530 Special Topics in Water Engineering |
| C525 Finite Elements and Structural Analysis | C531 Special Topics in Geotechnical Engineering |
| C526 Systems Planning and Analysis | C532 Special Topics in Systems and Transportation |

NC06 Civil Engineering for M.Eng.Sc.

(Two-thirds Project Work).

NC07 Civil Engineering for M.Eng.Sc.

(One-third Project Work).

NC08 Civil Engineering for M.Eng.Sc.

(By Thesis Only).

NE05 Electrical Engineering for M.Eng.Sc.

(One-third Course Work).

NE15 Electrical Engineering for M.Eng.Sc.

(Two-thirds Course Work).

| | |
|--|---|
| E541 Computer Aided Circuit Design | E546 Synthesis of Active and Passive Networks |
| E542 Digital Systems | E547 Power Electronics A |
| E543 Power System Dynamics | E548 Numerical Solution of Electromagnetic Fields |
| E544 Signal Processing and Linear Prediction | E549 Power Electronics B |
| E545 Stochastic Processes in Communication Systems | |

NE06 Electrical Engineering for M.Eng.Sc.

(Two-thirds Project Work).

NE07 Electrical Engineering for M.Eng.Sc.

(One-third Project Work).

NE08 Electrical Engineering for M.Eng.Sc.

(By Thesis Only).

NM05 Mechanical Engineering for M.Eng.Sc.

(One-third Course Work).

NM15 Mechanical Engineering for M.Eng.Sc.

(Two-thirds Course Work).

| | |
|------------------------|-------------------------------|
| M561 Numerical Methods | M564 Random Vibrations |
| M562 Turbulence | M565 Energy Systems Overview |
| M563 Solar Energy | M566 Industrial Noise Control |

NM06 Mechanical Engineering for M.Eng.Sc.

(Two-thirds Project Work).

NM07 Mechanical Engineering for M.Eng.Sc.

(One-third Project Work).

NM08 Mechanical Engineering for M.Eng.Sc.

(By Thesis Only).

OF THE DEGREE OF
MASTER OF APPLIED SCIENCE
REGULATIONS

1. There shall be a degree of Master of Applied Science.
2. The following may be accepted as a candidate for the degree:
 - (a) a person who has qualified in the University of Adelaide for the Honours degree of Bachelor of Engineering, Science, Applied Science or Agricultural Science;
 - (b) a person who holds a qualification accepted by the Faculty of Engineering as being equivalent to that of (a) above; *or*
 - (c) a person who has qualified in the University of Adelaide for the degree of Bachelor of Engineering, Science, Applied Science or Agricultural Science or who holds another academic qualification accepted by the Faculty of Engineering as being sufficient. Persons admitted under this sub-clause may not be awarded the degree before the expiration of two years from the date of qualification for candidature, and will normally be required to carry out preliminary work at Honours standard as set out in schedule I.*
3. With the approval of the Council the Faculty may, in exceptional circumstances and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not qualify under regulation 2 but who has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
4. A candidate shall be admitted on probation. The period of probation shall not exceed six months in the case of a full-time candidate nor twelve months in the case of a part-time candidate. At the end of the period each candidate's performance shall be reviewed by the Faculty of Engineering and his candidature confirmed, with or without special conditions, or terminated.
5. A candidate's progress shall be reviewed by the Faculty at the end of each academic year. If, in the opinion of the Faculty of Engineering a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, terminate his candidature.
6. To qualify for the degree a candidate shall:
 - (a) on completion of any preliminary work which may be prescribed in the schedules and after consultation with the Chairman of the Department in which the majority of his work falls, submit in writing to the Academic Registrar, for approval by the Faculty, the programme of advanced study and project work as prescribed in the schedules and designed to extend over either one calendar year if taken full-time or not less than two and not more than five calendar years if taken part-time;
 - (b) undertake an approved programme of advanced study and project work under the direction of a supervisor or supervisors who shall be members of the full-time academic staff of the University and appointed by the Faculty, but in special circumstances the Faculty may also appoint an external supervisor;
 - (c) pass such examination on his course of advanced study as may be required by the Faculty; and
 - (d) present a thesis embodying the results of his project.

*NOTE (not forming part of the regulations): The purpose of this requirement is to allow a candidate who does not have qualifications acceptable under (a) or (b) above to acquire additional competence through study or experience.

7. (a) Except by permission of the Faculty, the whole of the work for the degree must be completed within the University.

(b) If for academic reasons the Faculty so permits, parts of the study may be undertaken at other tertiary educational institutions, but such parts shall not however count for more than one-sixth of the work for the degree.

(c) Subject to such conditions as it may determine in each case, the Faculty may permit project work to be undertaken outside the University provided that it can be satisfied:

- (i) that this will result in mutual academic benefit to the candidate and his supervising department;
- (ii) that there will be adequate contact and interaction between the candidate and his supervising department; and
- (iii) that the supervisor's access to any experimental work, the candidate's availability for seminars and other discussions, and the publication of results will not thereby be prejudiced.

8. A candidate may not count a subject or closely related subject or part of a subject already presented for another degree or diploma.

9. (a) On completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.†

(b) Unless the Faculty expressly approves an extension of time in a particular case the thesis shall be submitted within six months of the completion of the candidate's programme.

(c) On submission or re-submission of the thesis the Faculty shall nominate examiners who may recommend that it:

- (i) be accepted, with or without conditions; *or*
- (ii) be accepted, with or without conditions, subject to satisfactory oral examination;
or
- (iii) be sent back to the candidate for revision; *or*
- (iv) be rejected.

10. A candidate who fulfils the requirements of these regulations may, on the recommendation of the Faculty, be admitted to the degree of Master of Applied Science.

Regulations allowed 23 December, 1976.

Amended: 2 Feb. 1978: 6,7; 8 Feb. 1979: 6,7.

†Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF
MASTER OF APPLIED SCIENCE
SCHEDULES

(Made by the Council under regulation 6.)

SCHEDULE I: PRELIMINARY WORK

1. A person whose qualifications have been accepted under either section (a) or section (b) of regulation 2 shall be deemed to have satisfied the requirements of this schedule.

2. Before being admitted either under section (c) of regulation 2 or under regulation 3 a person shall complete the requirements of this schedule by undertaking, and satisfying the examiners in, such courses of study and/or other work as may in his case be prescribed by the Faculty of Engineering. The purpose of this schedule is that the person should demonstrate his ability to perform at Honours standard.

SCHEDULE II: COURSES OF STUDY AND PROJECT WORK

The programme of study and project work shall consist of:

- (a) supervised project work which may make up the whole of the work but which shall be not less than one-third of the work for the degree;
- (b) graduate courses and seminars which may make up not more than two-thirds of the work for the degree; and
- (c) other relevant courses, which may make up not more than one-third of the work for the degree, as may be prescribed by the Faculty of Engineering.

Where the programme consists of both study and project work, the course of study shall normally constitute either one-third or two-thirds of the requirements for the degree.

SYLLABUSES

The Syllabuses prescribed for the degree of Master of Applied Science are the same as those for the degree of Master of Engineering Science.

OF THE DEGREE OF
DOCTOR OF ENGINEERING
REGULATIONS

1. (a) Subject to these regulations a person who has been admitted in the University of Adelaide to an Honours degree of Bachelor or a degree of Master in Science, Agricultural Science, Applied Science, Engineering or Engineering Science, or to the degree of Doctor of Philosophy in a field of study approved by the Faculty of Engineering, may proceed to the degree of Doctor of Engineering.

(b) On the recommendation of the Faculty of Engineering the Council may accept as a candidate for the degree a person who has been admitted to a degree in the University of Adelaide other than one named in section (a) of this regulation, or who is a graduate of another university or institution of higher education recognised by the University of Adelaide and has a substantial association with the University; provided that in each case the graduate concerned has, in the opinion of the Faculty of Engineering, had an adequate engineering training.

(c) On the recommendation of the Faculty of Engineering the Council may, in special cases, accept as a candidate for the degree a person who does not hold a degree of a university or institution of higher education, provided that in each case the candidate concerned has a substantial association with the University and has, in the opinion of the Faculty of Engineering, adequate engineering credentials.

(d) Except where a person has been accepted as a candidate under regulation 1(c), no person shall be accepted as a candidate for the degree of Doctor of Engineering before the expiration of five years from the date of his original graduation.

2. (a) A person who desires to become a candidate for the degree shall give notice of his intended candidature in writing to the Academic Registrar and with such notice shall furnish particulars of his engineering achievements and of the work which he proposes to submit for the degree.

(b) The Faculty of Engineering shall appoint a committee to examine the information submitted and to advise the Faculty on whether the Faculty should: (i) allow the applicant to proceed, and approve the subject or subjects of the work to be submitted; or (ii) advise the applicant not to submit his work: and the Faculty's decision shall be conveyed to the applicant.

(c) If it accepts the candidature and approves the subject or subjects of the work to be submitted the Faculty shall nominate examiners of whom one at least shall be an external examiner.

3. (a) To qualify for the degree the candidate shall furnish satisfactory evidence that he has made an original contribution of distinguished merit adding to the knowledge, understanding or practice of any subject with which the Faculty is directly concerned.

(b) The degree shall be awarded primarily on a consideration of such of his published works as the candidate may submit for examination.

(c) The candidate in submitting his published works shall state generally in a preface and specifically in notes the main sources from which his information is derived and the extent to which he has availed himself of the work of others, especially where joint publications are concerned. He may also signify in general terms the portions of his work which he claims as original.

(d) The candidate is required to indicate what part, if any, of the work he has submitted for a degree in this or any other university.

4. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.

5. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Engineering, be admitted to the degree of Doctor of Engineering.

6. Notwithstanding anything contained in the preceding regulations, the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to the knowledge or understanding of a subject with which the Faculty is directly concerned, of a standard not less than that required by regulation 3.

Regulations allowed 15 January, 1976.

FACULTY OF LAW

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

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OF THE DEGREE OF

BACHELOR OF LAWS

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Laws.

2. (a) The Council after receipt of advice from the Faculty shall from time to time prescribe schedules (i) defining the subjects of study for the degree to be provided by the University and the postgraduate subjects to be offered; (ii) defining the range of subjects satisfactorily to be completed; (iii) providing for, or empowering the Faculty to provide for, the subject or subjects to be pre-requisite for, or concurrent with, any subject, and the lectures, seminars, tutorials, moot court work, examinations, written and other work to be satisfactorily undertaken by candidates, provided that the following subjects of study shall always be offered: Elements of Law, Constitutional Law, Criminal Law, The Law of Contract, The Law of Torts, The Law of Property, Trusts, Succession, Commercial Transactions, Family Law, The Law of Evidence, and The Law of Procedure; and (iv) where a dissertation is required for the Honours degree of Bachelor of Laws, requiring that a candidate's enrolment for that dissertation be subject to the approval of the Department of Law.

(b) The syllabuses of subjects shall be specified by the Chairman of the Department of Law, and shall be submitted to the Faculty and the Council for approval.

(c) Schedules made and syllabuses approved by the Council shall become effective from the date of prescription by the Council or such other date as the Council may fix, and shall be published in the next edition of the University Calendar.

3. To qualify for the Ordinary degree a candidate shall comply with the provisions of schedules made under regulation 2 hereof.

4. (a) To qualify for the Honours degree a candidate shall comply with the provisions of schedules made under regulation 2 hereof.

(b) A candidate who satisfies the requirements of sub-regulation (a) of this regulation shall be awarded the Honours degree of Bachelor of Laws, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

First Class

Second Class

Division A

Division B

Third Class.

(c) A candidate who has been granted status by virtue of clause 7 of Chapter XXV of the University Statutes, or by virtue of regulation 10 of these regulations, may be awarded the Honours degree of Bachelor of Laws if the Council so decides, notwithstanding that he has not completely satisfied the requirements of sub-regulation (a) of this regulation.

5. Students shall enter for annual and supplementary examination on the form and by the date prescribed by the Council. Except in cases approved by the Faculty, every candidate, in each subject, shall have the opportunity to complete all assessment requirements by the end of November in the year of enrolment. Except in cases approved by the Faculty, all work to be assessed in each subject must be submitted by the end of the second week of February of the year succeeding the year of a candidate's enrolment in the subject.

6. Except in cases approved by the Faculty, if a candidate in a subject has not submitted work of at least pass standard by the end of the second week of February of the year following the candidate's enrolment in the subject, the candidate shall again comply with the requirements of regulation 5 before again presenting himself for assessment in that subject.

7. (a) In determining a candidate's final result in a subject, the assessors may take into account the assessments of the candidate's oral, written, practical or examination work in that subject, provided that the candidate has been given notice at the beginning of the course of the circumstances in which the work may be taken into account and its relative importance in the final result.

(b) A candidate may be required by the assessors in any subject to do essays or other written work in a satisfactory manner as prerequisite to being assessed in that subject, provided that candidates are given precise information about those requirements at the beginning of the course.

8. The Faculty may grant to any student such exemption from regulations 6 and 7, and under such conditions, as it shall decide.

9. There shall be three classifications of pass in any subject or division of a subject for the Ordinary degree (whether the result be obtained at the first or a subsequent attempt at the assessment tasks required), as follows: Pass with Distinction, Pass with Credit, Pass. The final results in all subjects shall be transmitted by the Academic Registrar to the Chief Justice of the Supreme Court of South Australia.

10. A candidate may, at any time, apply to the Faculty for status under these regulations or under schedules made in accordance with regulation 2 and may be granted such status, and upon such conditions, as the Council on the recommendation of the Faculty, determines.

11. All previous regulations concerning the degree of Bachelor of Laws and the Final Certificate in Law are hereby repealed, provided that:

- (a) a candidate who has completed subjects under the repealed regulations shall have status in the equivalent subjects under schedules made under these regulations; and
- (b) except with the permission of the Faculty of Law, a candidate who first enrolled in the Faculty of Law before 1967, shall, in order to qualify for the degree, in addition to complying with the requirements of regulation 3 or 4, pass in two subjects, other than Science subjects, available for the degree of Bachelor of Arts and approved by the Faculty of Law.

Regulations allowed 17 December, 1970.

Amended: 16 Dec. 1971: 2; 23 Jan. 1975: 2; 15 Jan. 1976: 2; 23 Dec. 1976: 2,5,6,7,8,9; 31 Jan. 1980: 2,11; Awaiting allowance: 2.

OF THE DEGREE OF
BACHELOR OF LAWS
SCHEDULES

(Made by the Council under regulation 2.)

NOTE: Syllabuses of subjects for the degree of LL.B. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: THE ORDINARY DEGREE

1. A candidate for the Ordinary degree shall:

(a) Pass in the following subjects:

| | | | |
|---------------------------|-----|------------------------------|-----|
| LL01 Elements of Law | (4) | LL32 Constitutional Law II | (6) |
| LL11 Constitutional Law I | (6) | LB43 Trusts | (4) |
| LL21 Criminal Law | (6) | LB23 Succession | (2) |
| LL31 The Law of Torts | (6) | LB12 Commercial Transactions | (3) |
| LL02 The Law of Contract | (6) | LB13 Consumer Credit | (2) |
| LB22 The Law of Property | (4) | LL44 The Law of Evidence | (6) |

(b) Pass sufficient of the following subjects to obtain not less than forty-four points:

| | | | |
|-------------------------------------|-----|------------------------------|-----|
| LL07 Administrative Law | (6) | LB83 International Law II | (2) |
| LL54 Associations | (6) | LB97 International Trade Law | (3) |
| LB48 Child Welfare Law | (2) | LL47 Jurisprudence | (6) |
| LL77 Comparative Law | (6) | LB78 Land Contracts | (3) |
| LL57 Conflict of Laws | (6) | LL28 Legal History | (6) |
| LB58 Criminal Investigation | (3) | LB88 Legal Philosophy | (3) |
| LB87 Criminology | (3) | LB98 Media Law | (3) |
| LL38 Environmental and Planning Law | (6) | LB10 Mining Law | (3) |
| LB17 Family Law | (4) | LB18 Negotiable Instruments | (2) |
| LB14 Human Rights Law | (2) | LB09 Penology | (3) |
| LL27 Industrial Law | (6) | LL67 Roman Law | (6) |
| LB16 Insurance | (2) | LB19 Soviet Law | (3) |
| LB82 International Law I | (4) | LL84 Taxation Law | (6) |
| | | LL74 The Law of Procedure | (4) |
| | | LB20 Trade Practices | (2) |

2. The Faculty may direct that any subject or subjects listed in clause 1(b) be not offered in any one year.

3. The points for each subject shall be those listed in brackets after the subject name.

4. An Honours candidate who has not qualified for the Honours degree may present an Honours dissertation considered sufficient for the purpose by the Board of Examiners in lieu of a subject worth six points in clause 1(b).

5. In lieu of any of the subjects required by clause 1(b) a candidate may present a law subject or subjects passed outside the Faculty. Such subjects must be approved and their points value determined by the Faculty in each case.

6. A candidate who, prior to March 1980, passed in either LL02 The Law of Contract or LL32 Constitutional Law II shall be required to obtain forty-one points in the subjects listed in clause 1(b), and a candidate who prior to that date passed in LL22 The Law of Property, thirty-eight points.

7. A candidate who, prior to March 1981, passed the subject LL43 Trusts and Succession shall be deemed to have passed the subjects LB43 Trusts and LB23 Succession.

8. A candidate who, prior to March 1981, passed the subject LL73 Commercial Transactions shall be deemed to have passed the subjects LB12 Commercial Transactions and LB13 Consumer Credit and shall be required to obtain not less than forty-three points from the subjects in clause 1(b); in such cases clause 6 shall apply, with the substitution of forty points for forty-one or thirty-seven points for thirty-eight.

9. A candidate who, prior to March 1981, passed the subject LL64 Institutional Business Transactions shall be deemed to have passed the subjects LB16 Insurance, LB18 Negotiable Instruments and LB20 Trade Practices.

10. A candidate who, after March 1980 and before March 1981, passed in LB48 Child Welfare Law, LB17 Family Law, LB82 International Law I, or LB83 International Law II, shall count that subject or subjects under clause 1(b) with a value of three points.

11. A candidate who, prior to March 1980, passed in LL87 Criminology, LL17 Family Law, LL37 International Law, LL97 International Trade Law or LL74 The Law of Procedure may count that subject or subjects under clause 1(b) with a value of six points.

12. A candidate who, prior to March 1980, passed in LL08 Seminar Course A may count that seminar course in lieu of a subject under clause 1(b) with a value of three points and a candidate who, prior to March 1980, passed in LL18 Seminar Course B may count that seminar course with a value of six points.

13. A candidate who, prior to March 1974, passed in LL28 Legal History shall count that subject under clause 1(b) with a value of three points.

14. Candidates who have completed subjects for the degree prior to March 1973, may continue under the schedules then in force, with such modification (if any) as shall be prescribed by the Dean.

SCHEDULE II: THE HONOURS DEGREE

1. A candidate for the Honours degree of Bachelor of Laws shall:
 - (a) pass in the subjects listed in clause 1(a) of schedule I;
 - (b) obtain thirty-eight points in the subjects listed in clause 1(b) of that schedule; and
 - (c) satisfactorily complete an Honours dissertation.
2. Clauses 5,7,9,10,11,12,13 and 14 of schedule I apply to the Honours degree.
3. Clause 6 of schedule I applies to the Honours degree with the substitution of thirty-five for forty-one and thirty-two for thirty-eight. Clause 8 of schedule I applies to the Honours degree with the substitution of thirty-seven for forty-three, thirty-four for forty and thirty-one for thirty-seven.
4. (a) Except with the permission of the Faculty, to be granted only in special cases, a candidate may enrol for the honours dissertation only if he has the approval of the Department of Law and has obtained:
 - (i) seventy-eight honours points in the first eleven subjects listed in clause 1(a) of schedule I and the subjects from those listed in clause 1(b) thereof which the candidate first completes to the value of twenty-two (ordinary) points; or
 - (ii) fifty-four honours points in the subjects specified in clause 4(a) (i) hereof excluding the first four subjects of those listed in clause 1(a) of schedule II; or
 - (iii) one hundred and nine honours points in the subjects listed in clause 1(a) of schedule I and the subjects from those listed in clause 1(b) thereof which the candidate first completes to the value of forty-four (ordinary) points.
- (b) Honours points shall be calculated by multiplying the (ordinary) point value of a subject by two in the case of a credit and three in the case of a distinction. The (ordinary) point value of LL01 Elements of Law, LL22 The Law of Property, LL87 Criminology, LL17 Family Law, LL37 International Law, LL97 International Trade Law and LL74 The Law of Procedure if passed before March 1980, and LL73 Commercial Transactions, LL43 Trusts and Succession and LL64 Institutional Business Transactions if passed before March 1981 shall be taken to be six.

- (c) Where a candidate in the one year completes subjects to more than the (ordinary) point values specified in sub-clause (a) hereof he shall count such honours points for those subjects as the Faculty may determine.
- (d) A candidate who takes advantage of clause 3 of this schedule may have his case assessed as a special one by the Faculty under sub-clause (a) hereof.
- (e) No honours points shall be counted for a subject previously failed except with the permission of the Faculty.
- (f) For the purposes of this clause subjects listed in clause 1(b) of schedule I shall include any subjects substituted for those subjects in accordance with clause 5 thereof. The Faculty shall determine what honours points shall be credited for such subjects.

5. A candidate qualified to enrol for the Honours dissertation under previous schedules shall remain qualified.

SCHEDULE III: POSTGRADUATE SUBJECT

LL15 Legal Ethics and Accounts will be offered as a postgraduate subject, but candidates for the degree of Bachelor of Laws may, with the approval of the Dean, attend the course of lectures in the subject in their final year.

SCHEDULE IV: RESTRICTION OF COURSES

1. Courses of study must be approved by the Dean or his nominee at enrolment each year.
2. Except with the permission of the Dean or his nominee, the following subjects are pre-requisite subjects:
 - (a) LL01 Elements of Law, LL11 Constitutional Law I, LL21 Criminal Law and LL31 The Law of Torts for all other subjects;
 - (b) LL02 The Law of Contract, LB22 The Law of Property and LL32 Constitutional Law II for all other subjects except those listed in sub-clause (a) hereof and except LB48 Child Welfare Law, LB58 Criminal Investigation, LB82 International Law I, LB98 Media Law, LB09 Penology, and LB10 Mining Law;
 - (c) LB82 International Law I for LB83 International Law II and LB14 Human Rights Law.
3. Except with the permission of the Dean or his nominee, the following combinations of subjects shall not be permitted:
 - (a) LL87 Criminology (under previous schedules), and either of LB87 Criminology or LB09 Penology;
 - (b) LL17 Family Law (under previous schedules), and either of LB48 Child Welfare Law or LB17 Family Law;
 - (c) LL37 International Law (under previous schedules), and LB82 International Law I or LB83 International Law II or LB14 Human Rights Law;
 - (d) LL97 International Trade Law (under previous schedules), and LB97 International Trade Law;
 - (e) LL64 Institutional Business Transactions (under previous schedules) and LB16 Insurance, LB18 Negotiable Instruments or LB20 Trade Practices;
 - (f) LL43 Trusts and Succession (under previous schedules) and LB43 Trusts or LB23 Succession;
 - (g) LL73 Commercial Transactions (under previous schedules) and LB12 Commercial Transactions or LB13 Consumer Credit.

NOTES (not forming part of the regulations or schedules):

1. *Scheme of study:*

The Faculty of Law recommends that candidates for the LL.B. degree take their subjects according to the following scheme:

- First Year:* LL01 Elements of Law, LL11 Constitutional Law I, LL21 Criminal Law, LL31 The Law of Torts.
- Second Year:* LL02 The Law of Contract, LL22 The Law of Property, LL32 Constitutional Law II; and subjects to the value of six points from: LB48 Child Welfare Law, LB58 Criminal Investigation, LB82 International Law I, LB98 Media Law, LB09 Penology, and LB10 Mining Law.
- Third Year:* LB43 Trusts, LB23 Succession, LB12 Commercial Transactions, LB13 Consumer Credit, and subjects to the value of sixteen points from the list in clause 1(b) of schedule I of the degree of Bachelor of Laws. LB23 Succession, LB12 Commercial Transactions and LB13 Consumer Credit will become optional from March 1982. Those students not planning to complete their degrees in 1981 are therefore at liberty to choose other subjects from clause 1(b) in place of these.
- Fourth Year:* LL44 The Law of Evidence and either subjects to the value of at least twenty-two points or subjects to the value of at least sixteen points together with an honours dissertation, from the list in clause 1(b) of schedule I of the degree of Bachelor of Laws. Provided that no subject shall be a subject for which the candidate has previously obtained credit. 44

2. *Candidates undertaking study for the degrees of LL.B. and B.A. or LL.B. and B.Ec. concurrently.*

Candidates may enrol for the degrees of LL.B. and B.A. or LL.B. and B.Ec. concurrently if they apply for and are admitted to both the Faculty of Law and either the Faculty of Arts or the Faculty of Economics. Alternatively, candidates for the degree of LL.B. wishing to proceed to the degrees of LL.B. and B.A. or LL.B. and B.Ec. concurrently may apply at the end of their first or second year in the Faculty of Law for admission to the B.A. or the B.Ec. course in the following year.

The Faculty of Law recommends that candidates who wish to take the degrees of LL.B. and B.A. or LL.B. and B.Ec. concurrently should, timetable permitting, take their subjects according to one of the following schemes:

(a) *Candidates enrolling for the degrees of LL.B. and B.A. or LL.B. and B.Ec. in their first year:*

- First Year:* LL01 Elements of Law, LL11 Constitutional Law I and either two subjects (or their equivalents) from group A in schedule I of the degree of Bachelor of Arts or the subjects listed in schedule II (1)(a) and II (1)(c) of the degree of Bachelor of Economics.
- Second and Third Years:* LL21 Criminal Law, LL31 The Law of Torts, and the subjects listed under note 1 for the second year of the Bachelor of Laws course, and either two subjects (or their equivalent) from group B in schedule I of the degree of Bachelor of Arts or the subjects listed in schedule II (2)(a) together with one of the subjects listed in schedule II (2)(b) and II (2)(c) of the degree of Bachelor of Economics.
- Fourth Year:* The subjects listed under note 1 for the third year of the Bachelor of Laws course.
- Fifth Year or Sixth Year:* In the case of a candidate proceeding to the degrees of LL.B. and B.A. concurrently: either the subjects listed under note 1 for the fourth year of the Bachelor of Laws course, or two subjects from Group C in schedule I of the degree of Bachelor of Arts.
In the case of a candidate proceeding to the degrees of LL.B. and B.Ec. concurrently: either the subjects listed under note 1 for the fourth year of the Bachelor of Laws course, or the subjects listed under schedule II (3)(a) and II (3)(b), together with one of the subjects listed under schedule II (2)(b) and II (2)(c) (but to be chosen from (c) if the other subject from these groups has been chosen from (b) and vice-versa) of the degree of Bachelor of Economics.

(b) *Candidates enrolling for the degree of B.A. or B.Ec. after completing one or two years' work towards the degree of LL.B.:*

- First Year:* The subjects listed under note 1 for the first year of the LL.B. course.
- Second, Third and Fourth Years:* The subjects listed under note 1 for the second and third years of the LL.B. course and either four subjects listed under sections 1, 2 and 3 of group A and group B in schedule I of the degree of Bachelor of Arts or the subjects listed in schedule II (1)(a), II (1)(c) and II (2)(a), together with one of the subjects listed in schedule II (2)(b) and II (2)(c) of the degree of Bachelor of Economics.
- Fifth Year or Sixth Year:* In the case of a candidate proceeding to the degrees of LL.B. and B.A. concurrently: either the subjects listed under note 1 for the fourth year of the LL.B. course or two subjects from group C of schedule I of the degree of Bachelor of Arts.
In the case of a candidate proceeding to the degrees of LL.B. and B.Ec. concurrently: either the subjects listed under note 1 for the fourth year of the LL.B. course or the subjects listed under schedule II (3)(a) and II (3)(b), together with one of the subjects listed under schedule II (2)(b) and II (2)(c) (but chosen from (c) if the other subject from these groups has been chosen from (b) and vice-versa) of the degree of Bachelor of Economics.

Candidates intending to enrol concurrently or enrolled concurrently for the degrees of LL.B. and B.A., or LL.B. and B.Ec. are advised to consult the Course advisers of both Faculties before final determination of their course of study each year.

OF THE DEGREE OF
BACHELOR OF LAWS
SYLLABUSES

Text and Case-books:

The texts listed in the syllabuses of subjects are those considered essential for the subjects and their purchase is recommended. Further details of texts recommended for purchase and essential statutes will be supplied by the Department of Law.

Reference books and other materials:

These will be listed in the Student Guide issued to all law students when they enrol.

Assessment:

For each subject students may obtain from the Department of Law details of the assessment in that subject including the relative weights given to the components (e.g. term or mid-year tests, essays or other written work, final written examinations, *viva voce* examinations).

Proposed assessment in each subject will be discussed at the initial lecture in that subject.

FIRST-YEAR COMPULSORY SUBJECTS [Schedule 1(a)].**LL01 Elements of Law.**

This course is a preliminary study of the nature and sources of the law. The course includes an examination of (a) the legal machinery for the resolution of disputes including the system of courts and court procedure; (b) the forms of law including the constitution, statutes, delegated legislation and judicial decisions. Particular emphasis is given to the development of law through judicial and legislative action.

LL11 Constitutional Law I.

Sources of law for the running of government in Australia including an examination of the role of conventions in the working of a constitution; general concepts including parliamentary sovereignty, separation of powers and the rule of law; a detailed examination of legislative and executive powers under the Commonwealth and South Australian constitution: a preliminary examination of Australian federalism; the relationship between the state and the individual with particular reference to the principles of Australian administrative law and the liberty of the individual.

LL21 Criminal Law.

The first term of the course is devoted to a detailed examination of the law relating to unlawful homicide. Second and third terms are devoted to the general principles of criminal responsibility; including, ignorance and mistake of law and fact, ancillary criminal responsibility, intoxication, insanity and lack of voluntariness

Howard, C., *Criminal law*, 3rd edition (Law Book Co., 1977).

Brett, P., and Waller P. L., *Criminal law, text and cases*, 4th edition (Butterworth, 1978).

Williams, G., *Textbook of criminal law* (1978).

LL31 The Law of Torts.

The course will consist of topics selected from the following: scope and purpose of the law of torts; intentional torts; negligence (duty of care, breach of duty, remoteness of damage); occupiers' liability; employers' liability (towards their employees, and towards others; vicarious liability); defences to negligence actions; liability under the rule in *Rylands v. Fletcher*; nuisance; the law of damages; possible reform or abolition of the torts system.

Winfield and Jolowicz on Tort, ed. W. V. H. Rogers, 10th edition (Sweet and Maxwell, 1975); OR
Fleming, J. E., *The law of torts*, 5th edition (Law Book Co., 1977).
Morison, W. L., Sharwood, R. L., and Phegan, C. S., *Cases on torts*, 4th edition (Law Book Co., 1973).

SECOND-YEAR COMPULSORY SUBJECTS [Schedule 1(a)].

LL02 The Law of Contract.

Formation of a contract (intention to create legal relations, consideration, agreement on terms, parties); capacity; the Statute of Frauds; terms of a contract (including implied terms both under common law doctrines and by statute, particularly the Sale of Goods Act); misrepresentation; mistake; duress and undue influence; privity; agency; illegality; restraint of trade; discharge of a contract; remedies; quasi-contract; purpose and technique of consumer protection.

Cheshire, G. C., and Fifoot, C. H. S., *The law of contract*, 3rd Australian edition (Butterworth, 1974).
Pannam, C. L., and Hocker, P. J., *Cases and materials on contract*, 4th edition (Law Book Co., 1979).

LB22 The Law of Property.

Title to land (doctrines of tenure and estates; land tenure in Australia; the Torrens system and the principle of indefeasibility; acquisition of title, co-ownership). Interests in goods (estates, mortgages and the nature of a contract of sale). The influence of Equity and equitable interests. Third party interests in land (leases, mortgages, easements, restrictive covenants). Priority of interests in land. Informal interests in land.

Sackville, R., and Neave, M. A., *Property law*, 2nd edition (Butterworth, 1975).

LL32 Constitutional Law II.

Standing in Constitutional cases. Legislative Powers of the Commonwealth with special reference to trade and commerce, corporations, external affairs, the implied national affairs power, and the incidental power. Relations between legislative powers. Conflicting laws: section 109, repugnancy, implied repeal and an introduction to problems in conflicts of laws. Intergovernmental immunities: Commonwealth laws affecting the States; State laws affecting the Commonwealth. Characterisation of laws. Legislative schemes. Severance. The executive power of the Commonwealth. The appropriations and grants power. The judicial power doctrine and its exceptions. General principles of federal jurisdiction (including diversity jurisdiction and the choice of law in federal jurisdiction.) Section 92. Discrimination and preference. Section 117. Full faith and credit. Customs and Excise.

Sawer, G., *Cases on the constitution of the Commonwealth of Australia*, 3rd edition (Law Book Co., 1964) (and supplement).
Sawer, G., *Australian federalism in the courts* (M.U.P., 1967).

THIRD-YEAR COMPULSORY SUBJECTS [Schedule 1(a)].**LB12 Commercial Transactions (New Course).**

A study of national and South Australian legislation regulating commercial dealings with the public (deceptive trade practices, unfair advertising, door-to-door sales); national and South Australian mechanisms to enforce such laws and handle consumer complaints; rights and obligations under contracts for the sale of goods (misrepresentation, implied terms, remedies).

LB13 Consumer Credit.

Forms of consumer credit; functions and forms of security interests in goods and land; rights under a consumer credit contract; exercise of security rights; debt recovery; bankruptcy.

LB23 Succession.

General principles of the law of wills, of testate and intestate succession, and the administration of estates.

Hardingham, I. J., Neave, E. M. A., and Ford, H. A. J., *The law of Wills* (Law Book Co., 1977).

LB43 Trusts.

The nature of a trust; requirements for the valid creation of trusts; discretionary trusts; trusts of future property; equitable assignments; resulting trusts; constructive trusts; tracing; duties and discretions of trustees (comparing the nature of the role of executors); charitable trusts.

FOURTH-YEAR COMPULSORY SUBJECT [Schedule 1(a)].**LI44 The Law of Evidence.**

The first part of the course involves the concept of proof. Proof in its natural sense will be elucidated before consideration is turned to the legal rules flowing from the natural meaning of proof. In this context the concepts of relevance, circumstantial evidence, standards of proof, prohibitions upon reference to the accused's past during a criminal trial and corroboration will be studied.

The second part of the course involves the procedural context. This part examines the adversary trial including the rules concerning privileges, the examination of witnesses, and hearsay.

SECOND- OR LATER-YEAR OPTIONAL SUBJECTS [Schedule 1(b)].

Note: It is possible that one or more of the following subjects will not be available in 1981.

LB48 Child Welfare Law.

The law and social administration concerning the welfare and rights of children, including:

- (1) Equalisation of status of all children: removal of legal disabilities affecting children born outside marriage.
- (2) Children's rights in custody disputes before the Family Court of Australia and elsewhere; modification of the traditional adversary procedure: the separate representation of children.
- (3) Adoption.
- (4) State intervention in the lives of children in need of care and protection, including the special problem of child abuse.
- (5) The treatment of young offenders.

LB58 Criminal Investigation.

An examination of pre-trial police powers of criminal investigation with emphasis upon the adequacy or otherwise of the present law and current proposals for reform.

Topics to be covered include arrest, search and seizure, interrogation and the privilege against self-incrimination, investigation of corporate crime, enforcement of compliance with police powers, and private police powers.

LB82 International Law I.

The general principles of the law of peace, including treaties, states, territory, sovereignty, jurisdiction, immunities, responsibility and claims; the United Nations Charter, international organisations and the International Court of Justice. Emphasis will be placed on case studies in which the operation of international law is an issue, and on the relationship between international law and international politics.

LB98 Media Law.

A full examination will be made of the law on defamation (including criminal defamation). The laws on pornography, obscenity, sedition, contempt of Parliaments and courts, breach of confidence and copyright will be studied as they relate to the mass media. Other subjects to be covered will include privacy and the media, freedom of information legislation, legal controls on advertising, the growing use of trade practices law in relation to the media and restraints on publication in the interests of national security. A special section of the course will examine the licensing of radio and television stations and the legal nature and extent of controls imposed by licensing authorities.

Australian Law Reform Commission, *Unfair Publication: Defamation and Privacy*, A.L.R.C., No. 11.

LB10 Mining Law.

An introductory study of the law and practice relating to mining in South Australia and in adjacent offshore waters, including drilling for petroleum; consideration of the nature and effect of interests created by the relevant State and Commonwealth legislation, including exploration licenses; a review of the powers and procedures of the Mining Warden. Attention will also be paid to the protection of the ecology and of the health and well-being of workers engaged in the mining industry, with special reference to the extraction of uranium.

Lang, A. C., and Crommelin, M., *Australian mining and petroleum laws*, 1979.

LB09 Penology.

A general introduction to penology. The course consists of an examination of contemporary penal measures; the law and practice of sentencing analysed and evaluated in the context of the varying theories of punishment; and the techniques, uses, and interpretation of criminal statistics (no prior knowledge of statistical techniques is required).

THIRD- OR FOURTH-YEAR OPTIONAL SUBJECTS [Schedule 1(b)].

Note: It is possible that one or more of the following subjects will not be available in 1981.

LL07 Administrative Law.

Aspects of the historical and contemporary growth of the administrative process, its structure and its function; parliamentary and administrative review of administrative action including delegated legislation; the ombudsman; the main principles of judicial review of administrative discretionary powers and of delegated legislation; the principles of natural justice as applied to administrative adjudication, the main remedies for securing judicial review; the legal liability of the Crown; reform of administrative law.

Whitmore, H., and Aronson, M., *Review of administrative action* (Law Book Co., 1978).

LL54 Associations.

A critical analysis of the law relating to partnerships, companies and unincorporated associations.

Ford, H. A. J., *Principles of company law*, 2nd edition (Butterworth, 1978).

LL77 Comparative Law.

Comparison with other legal systems raises many fundamental questions which Australian lawyers may be called upon to answer. Should a bill of rights be embodied in the constitution? Does the common law still meet the needs of contemporary society or should it be replaced by codes? Should the letter or the spirit of legislation govern its interpretation? The emphasis in this course will be on a comparison between the Australian and the German legal systems although frequent reference will be made to the laws of other jurisdictions. German legislation and legal scholarship have been influential in many countries and are, therefore, suitable points of departure for a comparative evaluation of common law and civil law methods of settling disputes.

LL57 Conflict of Laws.

The course deals with the general issues of jurisdiction and service of process, choice of law and recognition of foreign judgments, particularly in the context of actions in personam, but also in relation to criminal and family law. Emphasis is given to the conflictual aspects of recent legislation in the areas of consumer protection and motor accidents. The peculiarly federal aspects of the subject are dealt with at some length, as are the conceptual and methodological difficulties which arise from different approaches resolving conflict problems.

Kelly, D. St. L., *Localising rules in the conflict of laws* (Woodley Press, 1974).

Sykes, E. I., and Pryles, M. C., *International and interstate conflict of laws* (Butterworth, 1975).

Sykes, E. I., and Pryles, M. C., *Australian Private International Law* (Law Book Co., 1979).

LB87 Criminology.

A general introduction to criminology. The course consists of a critical examination of a variety of natural and social scientific perspectives on understanding criminal behaviour.

LL38 Environmental and Planning Law.

The course commences with an examination of the historical background of the environmental movement and resource-management in Australia, the nature of current environmental and planning problems, and the types of regulatory and administrative mechanisms that exist in Australia to confront those problems. A number of separate topics will then be considered. In first term, pollution controls and the role of the courts in environmental disputes will be considered. In second term the topics examined will include the development and nature of planning controls; the South Australian planning structure; the nature of zoning and subdivision controls; the role of appeal tribunals and public participation procedures; alternative modes of planning used in South Australia and elsewhere; housing, transport and related urban development issues. In third term, attention will be directed to topics chosen from the following areas: the EIA (environmental impact assessment) process, nature conservation measures; heritage protection; the energy crisis (including aspects of the nuclear debate); health laws (hazardous substances, pesticides, foodstuffs and packaging).

LB17 Family Law.

- A. Matrimonial proceedings between husband and wife:
 - 1. Constitutional background.
 - 2. Requirements of a valid marriage; annulment of marriage.
 - 3. Divorce.
 - 4. Financial readjustment on breakdown of marriage.
 - 5. Custody of Children, excluding ex-nuptial children.
- B. Selected topics of private international law.

LB14 Human Rights Law.

Techniques of the protection of human rights in Australian and international law. The relative importance of general ascertainment of principle and detailed rules will be examined in one or two selected contexts. Topics will include: the Bill of Rights debate, the influence of human rights considerations in judicial law-making, the extent and way in which international law protects human rights.

LL27 Industrial Law.

A study of the common, federal and state laws relating to conciliation and arbitration, trade unions, strikes, individual contracts of employment, breach of confidence, industrial accident law including workers compensation; employment discrimination.

LB16 Insurance.

The principles of Insurance law applicable to most forms of insurance contract. The concepts of "insurable interest", the effect of non-disclosure, misrepresentation and "basis of contract" clauses; insurance intermediaries; subrogation; contribution; double insurance.

LB83 International Law II

Assuming a knowledge of basic topics in international law the course aims to investigate in depth certain central issues: the concept and application of the notion of customary international law (taking selected specific examples); the relation between general international law and *jus cogens*; the application of international law in the practice of international organisations; and the problem of reform of the law (using the Law of the Sea negotiations as a case study).

LB97 International Trade Law.

Rules and laws relating to GATT, IMF, UNCTAD; trade and tariff policies, rules governing international rules, agency, finance and credit transactions; an outline of the law relating to the carriage of goods, international corporations, investments exchange control, customs regulation, international and arbitration and conciliation.

LL47 Jurisprudence.

A philosophical analysis of the nature of legal thought with special emphasis on its relationship to moral thought.

Berger, P. L., and Luckmann, T., *The social construction of reality* (Penguin, 1967).

Hart, H. L. A., *The concept of law* (O.U.P., 1961).

Raz, J., *Practical reason and norms* (Hutchinson, 1975).

LB78 Land Contracts.

Sale of land—nature of the contract, obligations of the parties, responsibilities of land agents. The conveyancing process. Responsibilities of builders and vendors of houses. Landlord and tenant obligations. Mortgage of land—types of agreement, impact of consumer legislation.

LL28 Legal History.

The chief emphasis in this course is on the development of legal institutions and law in Australia, including reference to the main political, philosophical, social and economic influences which have contributed to the working of the law in this country. The first part of the course consists of a detailed study of the English background relevant to the establishment and growth of the Australian legal system. This consists of an examination of the growth of English courts later used as models for the establishment of courts in Australia, the procedural methodology of English courts, the attributes of English legal thinking, and the structure and practices of the English legal profession. The second part of the course relates the adaptation of features of the English legal system to the Australian context with variations created by local conditions. It examines the relevance of English law reforms in the nineteenth century, and the philosophical attitudes involved in this, to the processes of legal change in Australia in the nineteenth century and beyond. A study is made of special legal developments in Australia and the reasons for these, including the development of land laws and industrial law. Special studies are made of the position of Aborigines under the law since 1788 and of the establishment and working of the legal profession in Australia.

Castles, A. C., *An introduction to Australian legal history*, 2nd edition (Law Book Co.).

Bennell and Castles, *A source book of Australian legal history* (Law Book Co., 1979).

LB88 Legal Philosophy.

An examination of the major western philosophers of law from Plato to the present with special emphasis on the question of the relationship between the individual and the State.

LB18 Negotiable Instruments.

The development and use of bills of exchange, cheques and promissory notes. The nature of a "bill of exchange" and liability of parties to a bill of exchange, including accommodation bills, "backing" a bill of exchange and signing a bill in a representative capacity. An analysis of the legal position of a holder, holder for value and holder in due course. Discharge of a bill of exchange.

The duties arising out of a relationship of a banker and customer; the nature and effect of crossings on cheques; the statutory protection of paying and collecting banks; the use of bank cheques; recovery of money paid under mistake of fact. Liability of parties to a promissory note.

LL67 Roman Law.

1. The history and sources of Roman Law.
2. An outline of Roman family law and of the laws relating to the acquisition of property, to contracts, and to delicts.
3. A comparative study of the Roman law of sale and the South Australian law relating to the sale of goods.
4. A comparative study of the Roman law of damage to property and the South Australian law of negligence.

Nicholas, J. K. B., *Introduction to Roman law* (O.U.P., 1962).

LB19 Soviet Law.

An examination of Soviet legal theory and institutions with particular reference to the impact of Marxist-Leninist philosophy in shaping their character. Comparisons will be made with Western legal systems on most topics. Aspects of both public and private law will be dealt with.

Hazard, Butler and Maggs (eds.), *The Soviet Legal System* (Oceana, 1977).

LL84 Taxation Law.

A basic course in the method and content of Australian income tax law—including historical background, statutory provisions and cases, and a consideration of proposals for reform of the tax system, and the function of the lawyer as an adviser on income tax matters. Discussion will cover income tax administration and procedure, the interpretation of taxing statutes, jurisdiction to tax, the measurement of income and taxable income, and the computation of tax. Aspects peculiar to corporate taxation are dealt with in only an introductory way.

Income Tax Assessment Act and Income Tax Act (current C.C.H. edition).

Baxt, Gelski, Grbich, Marks and Pose, *Cases and materials on taxation*, current edition (Butterworth).

Master Tax Guide (current C.C.H. edition).

LL74 The Law of Procedure.

Pleading and practice in the Supreme Court and Local Court. Criminal procedure in the Supreme Court, District Criminal Court and in Courts of Summary Jurisdiction.

Hannan's Local Court practice, 2nd edition (Law Book Co., 1973).

Odgers, *Principles of pleading*, 20th edition (Law Book Co., 1971).

LB20 Trade Practices.

The Trade Practices course involves, primarily, the study of Sections 45-50 of Part IV of the Trade Practices Act 1974-80 which prescribe certain commercial conduct.

It also involves an examination of Part VII which established administrative procedures that protect certain conduct, potentially prescribed, from the operation of Part IV.

Other Sections of the Act are dealt with as they are relevant to matters arising under Parts IV and VII.

ADDITIONAL SUBJECT.

(Not forming part of the requirements for the degree of LL.B.)

LL15 Legal Ethics and Accounts.

An examination of the rules and etiquette of professional practice. An introduction to basic accounting procedures in the practitioner's office.

HONOURS DEGREE OF BACHELOR OF LAWS.

LL99 Honours Dissertation.

Candidates for the Honours degree of Bachelor of Laws are required to complete satisfactorily an honours dissertation. The topic of the dissertation must be approved by the Department of Law. The format and presentation of the dissertation must comply with the Honours Guidelines issued by the Department of Law.

ADDITIONAL SUBJECTS.

LL1H Income Tax IIIH (B.Ec.).

LL2H Commercial Law IH (B.Ec.).

LL3H Commercial Law IIIH (B.Ec.).

LL92 Commercial Law IIA (B.Ec.).

OF THE DEGREE OF
MASTER OF LEGAL STUDIES
REGULATIONS

1. There shall be a degree of Master of Legal Studies.
2. (a) A candidate for admission to the course of study for the degree shall have either:
 - (i) an Honours degree of Bachelor of Laws of the University of Adelaide;
 - (ii) an Ordinary degree of Bachelor of Laws of the University of Adelaide which the Faculty judges to have been attained at above-average standard; or
 - (iii) an Ordinary degree of Bachelor of Laws of the University of Adelaide and substantial professional experience or other qualification;and shall in addition obtain the faculty's approval of his candidate.
 - (b) A degree in law of another University which in the opinion of the Faculty is equivalent to any of the degrees required in clause (a) hereof shall suffice for the purposes of that clause.
 - (c) The Faculty may in special cases accept, subject to the approval of the Council, a candidate for the degree who does not otherwise qualify under this regulation but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.
3. To qualify for the degree a candidate shall comply with the provisions of the schedules made under regulation 5 hereof.
4. A candidate's progress shall be reviewed by the Faculty each academic year under the provisions of clause 4c of Chapter XXV of the Statutes.
5. Schedules defining the courses of study, the subjects and the research work for the degree, shall be drawn up from time to time by the Faculty and approved by the Council.
6. Each year the Faculty shall determine which of the subjects listed in the schedules will be offered in the following year. The Faculty may determine that particular subjects will not be offered unless sufficient students have enrolled.
7. The syllabuses of subjects shall be specified by the Chairman of the Department of Law and submitted to the Faculty and the Council for approval.
8. A candidate may at any time apply to the Faculty for status under these regulations or the schedules made in accordance with regulation 5, and may be granted such status, and upon such conditions, as the Council on the advice of the Faculty determines.
9. Courses of study must be approved by the Dean of the Faculty or his nominee at enrolment each year.

Regulations allowed 31 January, 1980.

OF THE DEGREE OF

MASTER OF LEGAL STUDIES

SCHEDULES

(Made by the Council under regulation 5.)

1. To qualify for the degree the candidate shall:

either

complete satisfactorily subjects listed in clause 2(a) with a value of not less than 24 points and LS70 Research Paper A (2 points) and LS80 Research Paper B (2 points);

or

complete satisfactorily subjects listed in clause 2(a) with a value of not less than 18 points and LS70 Research Paper A (2 points) and LS90 M.L.S. Dissertation (8 points).

2. (a) The subjects for the degree shall be (the point value for each subject is indicated in brackets after the name of the subject):

| | | |
|------|------------------------|-----|
| LS45 | Advanced Company Law | (6) |
| LS35 | Advanced Insurance Law | (6) |
| LS05 | Advanced Taxation Law | (6) |
| LS15 | Competition Law | (6) |
| LS25 | Criminal Procedure | (6) |
| LS55 | Federal Public Law | (6) |

(b) A candidate who in 1980 satisfactorily completed the subject LS35 Insurance Law shall be deemed to have satisfactorily completed the subject LS35 Advanced Insurance Law.

3. A candidate may obtain not more than six points by completing, *in lieu* of one of the subjects listed in clause 2 above, subjects offered for the degree of Bachelor of Laws. The subjects must be completed at a level satisfactory for the purposes of the degree of Master of Legal Studies. Each subject of the degree of Bachelor of Laws shall have the value attached to it under the schedules of that degree. The subjects must not be, in the opinion of the Faculty, equivalent to any which the candidate has previously passed.

4. A candidate may proceed to the degree by either full-time or part-time study.

5. Except with the permission of the Faculty, and subject to regulation 4, the requirements of the degree shall be completed within four years.

6. The subject of each dissertation shall be approved and a supervisor appointed by the Faculty. A candidate shall lodge with the Academic Registrar three copies of his dissertation prepared in accordance with directions given to candidates from time to time.

7. The Faculty shall appoint two persons to examine each dissertation.

8. The subject of each research paper shall be approved and a supervisor appointed in respect of each research paper by the Department of Law.

9. The Department of Law shall appoint at least one person to examine each research paper.

OF THE DEGREE OF
MASTER OF LEGAL STUDIES
SYLLABUSES

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the Department of Law. It is hoped that all books and journals set for reference will be available to be consulted in the Law Library.

MASTER OF LEGAL STUDIES.

Note: It is possible that one or more of the following subjects will not be available in 1981.

LS45 Advanced Company Law.

An examination at advanced level of selected topics in the law relating to companies, partnerships and unincorporated associations. Special emphasis will be given to: company insolvency, including analysis of the functions and duties of company directors, receivers, receiver managers and liquidators; and to comparative company law, including a study of shareholders' access to courts and of the different methods by which various jurisdictions regulate corporate share capital, the issue of securities, the payment of dividends and transactions between a company and its directors or major shareholders.

LS35 Advanced Insurance Law.

LIFE AND GENERAL INSURANCE INDUSTRIES IN AUSTRALIA.

Participants in the industry; insurance and investment activities; ownership and control; extent of reliance upon reinsurance within and outside Australia; extent of direct placement of insurance business outside Australia.

THE INSURANCE CONTRACT.

Insurable interest; proposal forms and policies; standard forms and pre-clearance; agency; the insurer's need for information; the insured's need for information; rating and assessment of risks; exclusions and alterations in risk; discrimination; the handling of claims; subrogations; co-insurance; average; "other insurance" clauses; contribution, cancellation and renewal.

THE REGULATION OF THE INDUSTRY.

Regulation of insurers; solvency and investment controls; taxes and levies; tax benefits; policyholders' protection.

Regulation of intermediaries; insolvency of intermediaries; misrepresentation by intermediaries; standards of competence; policyholders' protection.

LS05 Advanced Taxation Law.

LS05 Advanced Taxation Law is a continuation of LL84 Taxation Law for the degree of LL.B. It will consider aspects of: corporate taxation (companies and shareholders); taxation of partnerships; taxation of trusts; procedures in tax controversies; international taxation; tax incentives, shelters, and planning techniques. These matters will be considered in the context of family wealth planning.

LS15 Competition Law.

1. Restraints of trade doctrine at common law. Breach of confidence. Protection of business names and reputation. Trade market legislation. Relationship of these doctrines to restrictive trade practices legislation.

2. Copyright. Ownership and assignment. Infringement and statutory defences to infringement. Nature of copyright in sound recordings, films, television and sound broadcasts. Remedies for infringement. International copyright conventions and arrangements.

3. Designs. Nature of copyright in designs and artistic works.

4. Patents. Range of patentable inventions. Procedural formalities. Grounds of opposition and revocation. "Petty" patents. International conventions and arrangements.

5. Restrictive trade practices. Legal control of cartels, monopolies, mergers, exclusive dealings, price discrimination.

LS25 Criminal Procedure.

An examination at advanced level of Criminal Procedure. The course will focus upon selected topics relating to pre-trial procedure, trial procedure, and post-trial procedure. Topics will be determined at the commencement of the course after consultation with those enrolled.

LS55 Federal Public Law.

A composite subject, comprising basic problems of federal jurisdiction (1 term) and an analysis of the system of federal administrative law (2 terms). Topics include:

Federal jurisdiction—Separation of powers; jurisdiction of federal courts; federal jurisdiction of State courts; associated problems.

Administrative review—Constitutional aspects; Administrative Appeals tribunal; Ombudsman; Administrative Review Council; Administrative Decisions (Judicial Review) Act, 1977; associated problems; a comparative critique and possible further developments.

LS70 Research Paper (A).

The topic of each research paper must be approved by the Department of Law and the paper must comply with the rules prescribed by the Department. A supervisor for each research paper will be appointed by the Department.

LS80 Research Paper (B).

All candidates except those presenting a dissertation must submit a second research paper. The rules applicable to Research Paper A apply to Research Paper B.

LS90 M.L.S. Dissertation.

The topic of each dissertation must be approved by the Faculty of Law and the dissertation must comply with the rules prescribed by the Faculty. A supervisor for each dissertation will be appointed by the Faculty.

OF THE DEGREE OF
MASTER OF LAWS
REGULATIONS

1. The Faculty of Law may accept as a candidate for the degree of Master of Laws any person who:

- (a) has become entitled to receive the Honours degree of Bachelor of Laws of the University of Adelaide;
- (b) has obtained in another university qualifications which in the opinion of the Faculty of Law are at least equivalent to those of the Honours degree of Bachelor of Laws at the University of Adelaide.

2. (a) The Faculty may accept as a probationary candidate for the degree any other graduate of the University of Adelaide or of another university if his qualifications are such as to satisfy the Faculty that he is likely to be able satisfactorily to undertake work for the degree.

(b) Every person who is accepted as a probationary candidate for the degree shall within such time as the Faculty shall in his case prescribe or allow pass at Honours standard and at the first attempt such examinations formal or informal or both as the Faculty may prescribe: should he fail so to pass such examinations his probationary candidature shall lapse, unless the Faculty under such conditions as it thinks fit determines that it be allowed to continue.

3. Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions as it may see fit to impose in each case, accept as a candidate or as a probationary candidate for the degree a person who does not hold a university degree, if it is satisfied that he is likely to be able satisfactorily to undertake work for the degree of Master of Laws.

4. To obtain the degree a candidate shall demonstrate in a thesis on a subject approved by the Faculty his ability to carry out independent research, to marshal logically and appropriately, and to analyse and assess, the material produced by that research, and to express clearly and effectively the conclusions to be drawn from that analysis and assessment. He shall on submission of the thesis adduce sufficient evidence that the thesis, which shall be prepared under the guidance of the supervisor or supervisors appointed by the Faculty, is his own work.

5. Unless the Faculty in any particular case expressly approve an extension of time the thesis of a full-time candidate for the degree shall be submitted within two calendar years, and the thesis of a part-time or external candidate shall be submitted within four calendar years, from the date of the commencement of his candidature or probationary candidature. No thesis may be submitted earlier than one calendar year from the date of the commencement of candidature.

6. A candidate's progress shall be reviewed by the Faculty each academic year under the provisions of clause 4c of Chapter XXV of the Statutes.

7. The candidature of every candidate shall commence on the approval by the Faculty of the subject of his research, unless the Faculty in special circumstances determines that it shall commence on some other specified date.

8. On the completion of his work the candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

9. The Faculty shall appoint examiners to report on the thesis. The examiners shall report to the Faculty and may recommend (i) that the degree be awarded; or (ii) that the thesis be returned to the candidate for revision and resubmission; or (iii) that the degree be not awarded.

10. If a thesis submitted for the degree of Doctor of Laws or Doctor of Philosophy be considered by the Faculty, after a final report by the examiners appointed to adjudicate upon it, not sufficiently meritorious to qualify the candidate submitting that thesis for the award of the degree the Faculty may if in its opinion the thesis submitted is of a standard sufficient to comply with the relevant requirements for the award of the degree of Master of Laws recommend that the latter degree be awarded.

Regulations allowed 9 January, 1969.

Amended: 28 Feb. 1974: 3; 23 Jan. 1975; 15 Jan. 1976: 6.

OF THE DEGREE OF
DOCTOR OF LAWS
REGULATIONS

1. Subject to these regulations the Council may, on the recommendation of the Faculty of Law, accept as a candidate for the degree of Doctor of Laws any person who, in the opinion of the Faculty of Law, is a fit and proper person to be so accepted.

2. To qualify for the degree a candidate may either (a) submit for assessment all or some of his scholarly work, including work not previously published; or (b) present a thesis on a subject approved by the Faculty of Law.

3. (a) A person who desires to qualify for the degree in accordance with alternative (a) of regulation 2 shall give notice of his intended candidature in writing to the Academic Registrar and with such notice shall furnish particulars of his scholarly achievements and of the work which he proposes to submit for the degree.

(b) The Faculty of Law shall examine the information submitted and shall decide whether to recommend to the Council that the applicant be accepted as a candidate.

4. (a) To qualify for the degree according to alternative (a) of regulation 2 a candidate shall submit work which constitutes an original and substantial contribution of distinguished merit to legal knowledge or understanding.

(b) If any of the material submitted represents work carried out conjointly, the candidate shall state the extent to which he was responsible for such work.

(c) The candidate shall indicate what part, if any, of his works has already been presented for a degree in this or any other university.

5. A person who desires to qualify for the degree in accordance with alternative (b) of regulation 2 may be accepted as a candidate if he (a) holds or has qualified for the Honours degree of Bachelor of Laws; or (b) holds or has qualified for the degree of Master of Laws: provided that the Faculty of Law may accept *in lieu* of the foregoing an equivalent qualification obtained in any other university recognised by the University of Adelaide; or (c) has passed an examination approved by the Faculty of Law.

6. (a) To qualify for the degree according to alternative (b) of regulation 2 a candidate shall present a thesis which (i) contains an original and substantial contribution of distinguished merit to legal knowledge or understanding, and (ii) merits publication as a book or monograph (other than as a collection of separate articles), whether or not it has been previously published in full or in part. A thesis previously presented for a degree in this or in any other university may not be submitted under this regulation.

(b) A candidate may also present in support of his candidature other published books, monographs, or articles. If any of these publications record work carried out conjointly, the candidate shall state the extent to which he was responsible for the initiation and presentation of such publications.

(c) A candidate proceeding in accordance with alternative (b) of regulation 2 and with this regulation shall not be admitted to the degree until the expiration of the fourth academic year from his admission to the degree by virtue of which he was accepted as a candidate.

7. The candidate shall lodge with the Academic Registrar three copies of the work submitted or of the thesis presented, as the case may be, prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.

8. The Faculty of Law shall nominate examiners. Normally there will be three examiners, two of them external to the University; but exceptions may be made in special cases recommended by the Faculty and approved by the Council.

9. The examiners may, if they think fit, examine the candidate either orally or by written questions on the material presented for the degree.

10. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Law, be admitted to the degree of Doctor of Laws.

FACULTY OF MATHEMATICAL SCIENCES

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES AND DIPLOMAS

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OF THE DEGREE OF

BACHELOR OF SCIENCE

IN THE FACULTY OF MATHEMATICAL SCIENCES

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Science in the Faculty of Mathematical Sciences. A candidate may obtain either degree or both.

2. The course of study for the Ordinary degree shall extend over three years of full-time study or the equivalent and that for the Honours degree over one additional year.

3. (a) In these regulations and in schedules made under them by the Council the following definitions shall apply:

“Subject” means a course of study at the University normally completed in one academic year.

“Unit” means a course of study at the University on a prescribed topic normally completed in one academic term.

(b) The Council, after receipt of advice from the Faculty of Mathematical Sciences, shall from time to time prescribe schedules defining (i) the subjects and units of study for the degree, (ii) the range of subjects and units to be satisfactorily completed and the examinations to be passed by candidates.

(c) Such schedules shall become effective from the date of prescription by the Council or such other date as the Council may fix.

(d) The syllabuses of subjects and units shall be specified by the Head of the department concerned and submitted to the Faculty and Council for approval.

(e) Schedules made and syllabuses approved by the Council shall be published in the next edition of the University Calendar.

4. (a) Except by permission of the Faculty, a candidate shall not be admitted to the class in any subject or unit, for which he has not satisfactorily completed the pre-requisite studies as prescribed in the syllabus for that subject or unit.

(b) Exemption from any part of the course on the first occasion on which a candidate takes a subject or unit will be granted only in special cases and on grounds approved by the Faculty.

5. (a) Examinations in any subject or unit shall be held in accordance with the provision of the relevant schedule made under these regulations.

(b) A candidate shall enter for examination in a subject on a form and by a date prescribed by the Council, but shall not be eligible to present himself for examination unless he has done prescribed work to the satisfaction of the teaching staff concerned.

(c) In determining a candidate's final results in a subject (or unit), the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

(d) A candidate will be permitted to take a supplementary examination only in circumstances approved by the Faculty.

6. The names of the candidates who pass in any subject for the Ordinary degree shall be published in three classifications: Pass with Distinction, Pass with Credit, Pass. The names of candidates in each of the classifications shall be published in accordance with the provision of the relevant schedule made under the regulations. If the list of candidates who pass be published in two divisions, a pass in the higher division may be prescribed in the appropriate syllabuses as pre-requisite for admission to another subject. A candidate with a lower division pass who wishes to gain a higher division pass shall be allowed to repeat the course, subject to the provisions of regulation 7.

7. (a) A candidate who fails to pass in a subject (or unit) or who obtains a lower division pass and who desires to take the subject or unit again shall, unless exempted wholly or partially therefrom by the Head of the department concerned do written or other work in that subject or unit to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Division I pass or higher in the examination in any subject shall not enrol for the subject again, or for any other subject which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or absents himself from the examination in any subject after having attended substantially the full course of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a higher division pass only after being granted permission to enrol for the third time shall not take a subject for which that higher division pass is a pre-requisite, save in exceptional circumstances and with the permission of the Faculty.

8. (a) A candidate who has passed subjects in other faculties or universities or elsewhere, may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

(b) A graduate in another faculty, who wishes to proceed to the degree of Bachelor of Science in the Faculty of Mathematical Sciences and to count towards that degree subjects which he has already presented for another degree may do so, subject to the following conditions:

- (i) he shall present a range of subjects which fulfils the requirements of the relevant schedule made under regulation 3, and
- (ii) he shall present two third-year subjects not presented for any other degree.

9. (a) A candidate desiring to enter for an honours subject must obtain the approval of the Head of the department concerned. The final examination may not, except by special permission of the Faculty, be taken until four years of study have been completed after matriculation.

(b) The work of the Honours year must be completed in one year of full-time study, save that on the recommendation of the Head of the department concerned, the Faculty may permit a candidate to spread the work over two years, but no more, under such conditions as it may determine.

(c) The names of the candidates who qualify for the Honours degree shall be published in alphabetical order within the following classes and divisions in each subject:

First Class

Second class

Division A

Division B

Third Class

(d) A candidate who is unable to complete the course for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the course, or who withdraws from the course shall be reported to the Faculty, which may permit him to re-enrol for the Honours degree under such conditions (if any) as it may determine.

(e) A candidate may not enrol a second time for the Honours course in the same subject if he (i) has already qualified for Honours in that subject; or (ii) has presented himself for examination in that subject but has failed to obtain Honours; or (iii) withdraws from his course, unless the Faculty under paragraph (d) hereof permits him to re-enrol.

10. A graduate who has obtained the Honours degree of Bachelor of Arts may not proceed to the Honours degree of Bachelor of Science in the same subject.

11. A graduate who has obtained the Ordinary degree of Bachelor of Arts and has fulfilled the requirements of clause 9 for the Honours degree of Bachelor of Science in the Faculty of Mathematical Sciences shall be awarded the Honours degree of Bachelor of Arts.

12. Applications for approval under clauses 4(a), 4(b), 7(a), 7(b) or 8 shall be submitted in writing to the Academic Registrar.

Regulations allowed 21 December, 1972.

Amended: 15 Jan.1976: 3; 23 Dec.1976: 5; 31 Jan.1980: 7.

OF THE DEGREE OF
BACHELOR OF SCIENCE
IN THE FACULTY OF MATHEMATICAL SCIENCES

SCHEDULES

(Made by the Council under regulation 3.)

NOTE: Syllabuses of subjects for the degree of B.Sc. in the Faculty of Mathematical Sciences are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

Notwithstanding the schedules and syllabuses published in this volume, a number of the units and options listed in the courses leading to the degrees of Bachelor of Arts and Bachelor of Science may not be offered in 1981.

The availability of *all* subjects, units and options is subject to the availability of staff and facilities.

SCHEDULE I: SUBJECTS OF STUDY

FIRST-YEAR SUBJECTS AND HALF-SUBJECTS

1. Mathematical Sciences subjects

QM01 Mathematics I

Mathematical Sciences half-subjects

QA7H Computing IH

QT7H Statistics IH

2. Arts subjects

AA01 Anthropology I

AH01 History IA

AQ01 Chinese I

AH31 History IB

AC31 Classical Studies I

AQ51 Introduction to Japanese Literature I

UA11 Drama I

AQ21 Japanese I

AE01 English I

AQ31 Japanese IA

AF01 French I

AC01 Latin I

AF11 French IA

AC41 Latin IA

AJ01 Geography I

UA51 Music I

AG01 German I

UA61 Music IA

AG11 German IA

AP11 Politics IA

AC11 Greek I

AP21 Politics IB

AC71 Greek IA

AY01 Psychology I

Arts half-subjects

AJ2H Human Geography IH

AL3H Philosophy IH(B)

AL2H Logic IH

AJ1H Physical Geography IH

AL1H Philosophy IH(A)

SP9H Physics, Man and Society IH

3. Economics subjects

EC01 Accounting I

EE11 Economics I

EE1G Macroeconomics IH*

Economics half-subjects

EE2G Microeconomics IH

NX21 Engineering IA

4. Engineering subjects

NX31 Engineering IB

SZ71 Biology I

5. Science subjects

SC01 Chemistry I

QM11 Mathematics IM**

SG01 Geology I

SP01 Physics I

Science half-subjects

SP8H Astronomy IH

SB5H Environmental Biology IH

SB6H Botany IH†

SJ7H Genetics and Human Variation IH

* The half-subject EE1G Macroeconomics IH is available only to students who have passed EE2G Microeconomics IH prior to 1981.

** With permission of the Faculty, QM11 Mathematics IM may be counted as a Mathematical Sciences subject in place of QM01 Mathematics I for the purpose of schedule II.

† See schedule II, paragraph 6(d).

6. Architectural Studies subjects

| | |
|-------------------------------|------------------------------|
| RS31 Art History and Theories | RS21 History and Theories of |
| RS01 Building Studies I | Architecture I |
| RS11 Design Studies I | RS41 Visual Communication |

SECOND-YEAR SUBJECTS AND HALF-SUBJECTS

1. Mathematical Sciences subjects

| | |
|------------------------------|---------------------------------|
| QN22 Applied Mathematics IIA | QA12 Computing Science IIC |
| QN12 Applied Mathematics IIB | QT02 Mathematical Statistics II |
| QA02 Computing Science II | QM02 Pure Mathematics II |

2. Arts subjects

| | |
|---|---|
| AC72 Ancient History II | AG02 German II |
| AA02 Anthropology IIA | AG12 German IIA |
| AA12 Anthropology IIB | AG87 German IIB |
| AA22 Anthropology IIC | AC12 Greek II |
| AQ42 Asian Civilisations: Past and Present II | AC82 Greek IIA |
| AQ02 Chinese II | AH02 History IIA |
| AC92 Classical Art and Archaeology II | AH22 History IIB |
| AC32 Classical Studies II | AQ52 Introduction to Japanese Literature II |
| UA12 Drama II | AQ22 Japanese II |
| AE02 English II | AC02 Latin II |
| AE22 English IIB | AC42 Latin IIA |
| AE32 English IIC | AL22 Logic II |
| AF02 French II | UA52 Music II |
| AF12 French IIA | AE87 Old and Middle English II |
| AF72 French IIB | AL02 Philosophy II |
| AJ12 Geography IIA | AP32 Politics IIA |
| AJ22 Geography IIB | AP42 Politics IIB |
| | AY02 Psychology II |

Arts half-subjects

AJ7H Geography IIH

3. Economics subjects

EC02 Accounting II

Economics half-subjects

| | |
|------------------------------|-------------------------|
| EE6F Economic History IIH(A) | EE3G Macroeconomics IIH |
| EE7F Economic History IIH(B) | EE4G Microeconomics IIH |

4. Science subjects

| | |
|-------------------------------------|--|
| SY02 Biochemistry II | SO02 Organic Chemistry II |
| SB02 Botany II | SC02 Physical and Inorganic Chemistry II |
| SC12 Chemistry II | |
| SJ02 Genetics II | SP02 Physics II |
| SG02 Geology II | SS02 Physiology II |
| SG72 Geophysics II | SZ02 Zoology II |
| SK32 Microbiology and Immunology II | |

THIRD-YEAR SUBJECTS AND HALF-SUBJECTS

1. Mathematical Sciences subjects

| | |
|-------------------------------|----------------------------------|
| QN03 Applied Mathematics III | QF13 Mathematical Physics III |
| QN13 Applied Mathematics IIIA | QT03 Mathematical Statistics III |
| QA03 Computing Science III | QM03 Pure Mathematics III |
| QA13 Computing Science IIIA | QM13 Pure Mathematics IIIA |

2. Arts subjects

| | |
|---|---------------------------------|
| AC73 Ancient History III | AG03 German III |
| AA03 Anthropology IIIA | AG88 German IIIB |
| AA13 Anthropology IIIB | AC13 Greek III |
| AA23 Anthropology IIIC | AH03 History IIIA |
| AA33 Anthropology IIID | AH13 History IIIB |
| AQ43 Asian Development III | AQ23 Japanese III |
| AQ03 Chinese III | AC03 Latin III |
| AC93 Classical Art and Archaeology III | AL23 Logic III |
| AC33 Classical Studies III | UA53 Music III |
| AE03 English IIIA | AE88 Old and Middle English III |
| AE13 English IIIB | AL03 Philosophy IIIA |
| AF03 French III | AL13 Philosophy IIIB |
| AF88 French IIIB | AP03 Politics IIIA |
| AJ13 Geography IIIA | AP13 Politics IIIB |
| AJ23 Geography IIIB | AY23 Psychology III |

Arts half-subjects

| | |
|-------------------------|-------------------------|
| AJ8H Geography IIIB | AY2H Psychology IIIB(B) |
| AY1H Psychology IIIB(A) | |

3. Economics subjects

| | |
|--|---|
| EC33 Commerce III (Mathematical Sciences) | EE03 Economics III (Mathematical Sciences) |
|--|---|

4. Science subjects

| | |
|---|---|
| MA13 Anatomy and Histology III | SK33 Microbiology and Immunology III |
| MA43 Anatomy and Histology IIIM | SO03 Organic Chemistry III |
| QN83 Applied Mathematics IIIM* | SO83 Organic Chemistry IIIM |
| SY03 Biochemistry III | MR43 Pharmacology III |
| SY83 Biochemistry IIIM | MR53 Pharmacology IIIM |
| SB03 Botany III | SC13 Physical and Inorganic Chemistry IIIB |
| SB83 Botany IIIM | SC83 Physical and Inorganic Chemistry IIIM |
| QA83 Computing Science IIIM* | SP03 Physics III |
| SJ03 Genetics III | SP83 Physics IIIM |
| SG03 Geology III | SS03 Physiology III |
| SG83 Geology IIIM | SS83 Physiology IIIM |
| SG73 Geophysics III | QM83 Pure Mathematics IIIM* |
| SG23 Geology and Economic Geology IIIA | SZ03 Zoology III |
| SG33 Geology and Economic Geology IIIB | SZ83 Zoology IIIM |

* See schedule II paragraph 3 for the circumstances under which these subjects may be counted towards the degree of Bachelor of Science in the Faculty of Mathematical Sciences.

SCHEDULE II: THE ORDINARY DEGREE

1. Subjects

Throughout this schedule the word "subject" denotes a subject listed in schedule I.

2. Equivalence of first-year half-subjects to first-year subjects

(a) Two Mathematical Sciences first-year half-subjects are equivalent to one Mathematical Sciences first-year subject for the purpose of this schedule.

(b) Any other combination of two first-year half-subjects is equivalent to a first-year subject, but cannot be counted as a Mathematical Sciences subject.

3. General requirements

To qualify for the Ordinary degree a candidate shall present nine subjects or their equivalent, including at least two third-year subjects. With exceptions indicated in (a) and (d) below at least half of the subjects presented shall be Mathematical Sciences subjects. The allowable combinations of third-year subjects are:

- (a) Two Mathematical Sciences subjects (provided that in addition at least 2½ other Mathematical Sciences subjects are presented).
- (b) One Mathematical Sciences subject (provided that in addition at least 3½ other Mathematical Sciences subjects are presented).
- (c) One Mathematical Sciences subject and one of QN83 Applied Mathematics IIM, QA83 Computing Science IIM, and QM83 Pure Mathematics IIM (provided that in addition at least 3 other Mathematical Sciences subjects are presented).
- (d) Two of QN83 Applied Mathematics IIM, QA83 Computing Science IIM and QM83 Pure Mathematics IIM (provided that in addition at least 3½ Mathematical Sciences subjects are presented).

In (a), (b), (c) and (d) above, with the permission of the Faculty, QM11 Mathematics IM may be counted as a Mathematical Sciences subject in place of QM01 Mathematics I for the purpose of this schedule.

In the first year of enrolment in the Faculty of Mathematical Sciences a candidate must enrol in at least one of QM01 Mathematics I or QA7H Computing IH or QT7H Statistics IH. Except with the permission of the Faculty, a candidate may not enrol in more than three subjects taught by departments outside the Faculty before obtaining at least a Division I pass in QM01 Mathematics I or QM11 Mathematics IM.

4. Distribution of subjects by years

The distribution of subjects by years shall be *either*

- 4 first-year, 3 second-year, and 2 third-year subjects or their equivalent; *or*
5 first-year, 2 second-year, and 2 third-year subjects or their equivalent.

Permission of the Faculty is required for any other combination.

5. Approval of subjects

Courses of study must be approved by the Dean or an Assistant to the Dean at enrolment each year.

6. Unacceptable combinations of subjects

(a) No candidate will be permitted to count for the degree any subject or half-subject together with any other subject or half-subject which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject, or half-subject, may be counted twice towards the degree.*

(b) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

(c) A candidate shall not present more than two of AA03 Anthropology IIIA, AA13 Anthropology IIIB, AA23 Anthropology IIIC and AA33 Anthropology IIID.

(d) No candidate may enrol in SB6H Botany IH unless he is enrolled in or has passed SZ71 Biology I.

7. Examinations

(a) Final examinations in any subject or unit shall be held in the examination period defined by the Council after the completion of the course of instruction in that subject or unit.

(b) Other examinations may be held at any time fixed by the examiners concerned, provided that such examinations are not held in the vacation and that attendance at such examinations is not compulsory.

* A table of unacceptable combinations of subjects and half-subjects is given towards the end of this Volume (see Table of Contents).

8. Special circumstances

(a) When, in the opinion of the Faculty, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of clauses 1-7 above.

(b) An examination which is to be taken into account for the purpose of regulation 5(c) may be held if the Faculty so approve. Such examination shall be held during the examination periods defined by the Council.

9. Pass lists

The names of the candidates who pass in any subject shall be published in an official list and be arranged in alphabetical order in the classifications: Pass with Distinction, Pass with Credit and Pass.

NOTE (not forming part of the schedules):

Work required to complete an Adelaide degree.

To qualify for the degree:

- (i) students who have completed most of the requirements for the degree of Bachelor of Science at another institution will be required as a minimum to complete a full third-year's work in order to qualify for the Adelaide degree; and
- (ii) with special permission of the Faculty, a student who has completed most of the subjects for the degree of Bachelor of Science in Adelaide including one third-year subject may be permitted to complete the requirements for the degree at another institution.

All applications must be made in writing to the Academic Registrar.

SCHEDULE III: THE HONOURS DEGREE

1. A candidate may, subject to approval by the Head/Chairman of the department concerned, proceed to the Honours degree in one of the following subjects:

QN99 Honours Applied Mathematics QM99 Honours Pure Mathematics
QA99 Honours Computing Science QT99 Honours Statistics
QF99 Honours Mathematical Physics

2. A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a subject taught in a department in another faculty. Candidates must consult the Chairman of the department concerned and apply, in writing, to the Academic Registrar for admission to the Honours course.

3. A candidate for the Honours degree in any subject shall not begin Honours work in that subject until he has qualified for the Ordinary degree of Bachelor of Arts or Bachelor of Science or such other degree as may be acceptable to the Faculty. A candidate who has been granted permission to spread the work of the Honours year over two years under regulation 9(b) must complete his qualifications for the Ordinary degree before beginning the work of the second year of his Honours course.

4. When, in the opinion of the Faculty, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary the provisions of clauses 1, 2 and 3 above.

OF THE DEGREE OF

BACHELOR OF SCIENCE

IN THE FACULTY OF MATHEMATICAL SCIENCES

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

COMPUTING SCIENCE.

For students wishing to major in Computing Science the recommended course is:

First year: QA7H Computing IH, QT7H Statistics IH, QM01 Mathematics I, plus two subjects.

Second year: QA02 Computing Science II, plus two subjects.

Third year: QA03 Computing Science III, plus one subject.

QA7H Computing IH.

A first-year half-subject, consisting of two lectures and one tutorial a week throughout the year. A background in algebra, such as may be obtained from the Matriculation Mathematics IS syllabus or equivalent, will be assumed. Practical programming exercises will be a requirement of the course.

The subject is designed to convey an understanding of the elements of Computing Science as well as to teach computer programming.

Students will be required to work for approximately 1½ hours a week on interactive computing using Computing Centre facilities.

Syllabus: Algorithmic processes and languages (Pascal and Fortran). Computer organisation and coding. Data structures and their manipulation.

Text-book:

Schneider, G. M., and others, *An introduction to programming and problem solving with Pascal* (Wiley).

SECOND-YEAR SUBJECTS IN COMPUTING SCIENCE.

Two alternative full second-year subjects are offered; the first, QA02 Computing Science II, is designed only for students who have passed QA7H Computing IH in 1976 or thereafter, and the second, QA12 Computing Science IIC, is intended for all other students irrespective of previous programming experience or knowledge of Fortran. Students who passed QA7H Computing IH prior to 1976 should enrol in QA12 Computing Science IIC. Students with a knowledge of the programming language Pascal should consult the Department before enrolling.

Both QA02 Computing Science II and QA12 Computing Science IIC lead to QA03 Computing Science III and all units thereof, QA7H Computing IH, taken in 1976 or thereafter, and QA12 Computing Science IIC may NOT both be counted towards a degree.

QA02 Computing Science II.

Pre-requisite subject. QM01 Mathematics I or QM11 Mathematics IM at Division I or higher standard.

This subject is intended for those students with a background equivalent to QA7H Computing IH taken in 1976 or thereafter.

The course comprises four lectures and one tutorial class a week, together with compulsory practical programming exercises. To do these exercises students will be required to work for approximately 4 hours a week in the Department's Interactive Computing Laboratory. Details of scheduling will be arranged early in the year.

The syllabus includes the following topics: numerical methods, Fortran programming, introduction to computer systems, assembly languages, Pascal programming and data structures.

Lecture times are: Monday 9.10, Tuesday 10.10, Thursday 10.10, Friday 12.10.

Text-books:

Jensen, K., and Wirth, N., *Pascal user manual and report* (Springer).

Kreyszig, E., *Advanced engineering mathematics*, 4th edition (Wiley).

QA12 Computing Science IIC.

Pre-requisite subject: QM01 Mathematics I or QM11 Mathematics IM at Division I or higher standard.

This subject is intended for all students EXCEPT those with some experience of programming in Pascal such as may have been obtained in QA7H Computing IH taken in 1976 or thereafter.

The course comprises four lectures and one tutorial class a week, together with compulsory practical programming exercises. To do these exercises students will be required to work for approximately 4 hours a week in the Department's Interactive Computing Laboratory. Details of scheduling will be arranged early in the year.

The syllabus is almost identical with that for QA02 Computing Science II, but an introduction to computer programming in Pascal is substituted for the topic, Fortran programming.

Lecture times are: Monday 9.10, Tuesday 10.10, Thursday 10.10, Friday 12.10.

Text-books:

Grogono, P., *Programming in Pascal* (Addison-Wesley).

Kreyszig, E., *Advanced engineering mathematics*, 4th edition (Wiley).

THIRD-YEAR SUBJECTS IN COMPUTING SCIENCE.

The Department will offer the following third-year units as staff and enrolments allow. Each unit, with the exception of A309 (Cobol and Project), consists of about 27 lectures as well as tutorials, written exercises and, in most units, practical programming exercises. The Department may offer an extra unit in third term depending on circumstances.

There will be one tutorial fortnightly for some units and practical work at times to be arranged. There is strictly limited provision for after hours tutorials and practical work for part-time students. A student's normal workload will require approximately 6 hours a week of practical programming in the Department's Interactive Computing Laboratory. The details of the scheduling for the practical session will be arranged early in the year.

Students taking the units A302 Numerical Analysis I or A306 Simulation I will be expected to have at their disposal a pocket calculator (usable at tutorials and possibly at examinations) with at least the following features:

- (i) The functions $\sin x$, $\cos x$, $\tan x$, $\arcsin x$, $\arccos x$, $\arctan x$, e^x , $\ln x$, \sqrt{x} .
- (ii) One memory location.

The lecture times for the units are shown in parentheses.

A301 COMPUTER ARCHITECTURE (Third term: Mon 3.15, Tues 4.15, Thurs 4.15).

Material included: Computer logic, memory systems, memory interleaving, content addressable memory, virtual memory, memory protection, hierarchical memory systems, cache store, push down store, interrupt systems, paging, segmentation, micro-programming, multiprogramming, pipe-line computers, array computers, study of particular computing systems.

A302 NUMERICAL ANALYSIS I (Second term: Mon 3.15, Tues 4.15, Thurs 4.15).

Topics will include computer arithmetic, numerical solution of non-linear equations, numerical solution of systems of linear equations and the computation of eigenvalues and eigenvectors. The course is intended to be an analysis course rather than a methods course.

Equipment: Pocket calculator (see above).

A303 OPERATING SYSTEMS I (Third term: Mon 4.15, Wed 4.15, Fri 4.15).

A detailed study and comparison of the NOS/BE operating system on the Cyber 173 computer and the VMS operating system on the VAX 11/780 computer. Topics will include processors, monitor programs, interrupt systems, inter-process communication, peripheral equipment control and process scheduling. The principles will be illustrated by exercises involving the programming and running of virtual machine programs for the two computers. The course will conclude with an introduction to the more abstract study of operating systems.

A304 PROGRAMMING LANGUAGES I (First term: Mon 3.15, Tues 4.15, Thurs 4.15).

Scope rules, block structure and recursion in block structured languages. Organisation of the runtime stack. Description of a simple stack machine. Backus-Naur notation, elementary treatment of phrase structure grammars, syntax graphs. Top down parsing, description of a simple recursive descent compiler. Internal forms of programs, compiler portability, symbol table organisation. The course involves a substantial amount of practical programming in Pascal.

Text-book:

Wirth, N., *Algorithms + data structures = programmes* (Prentice-Hall).

A306 SIMULATION (First term: Mon 4.15, Wed 4.15, Fri 4.15).

The course will be an introductory treatment of discrete event digital simulation covering model formulation, statistical concepts, generation of stochastic variates, output analysis and experimental design.

Equipment: Pocket calculator (see above).

A307 THEORY OF COMPUTATION I (Second Term: Mon 4.15, Wed 4.15, Fri 4.15).

Formal languages and automata, Turing machines, elements of computability theory. The lambda calculus. Methods of semantic definition: operational, axiomatic and denotational semantics.

A308 DATA BASE MANAGEMENT (Second term: Tues 2.15, Wed 2.15, Thurs 2.15).

This course reviews the general features of data base management systems. The CODASYL data base management system and the relational type of data base system will be considered.

A knowledge of the programming language Cobol is assumed such as may be obtained by attending the lectures on Cobol in the unit A309 Cobol and Project.

A309 COBOL AND PROJECT (First term: Tues 2.15, Wed 2.15, Thurs 2.15).

Sufficient lectures on the programming language Cobol will be given at the beginning of the course to enable students to gain a knowledge of the language prior to undertaking the Project.

The Project is a major programming exercise (about a quarter of a term's work). Lectures and tutorials will be arranged as necessary from among the times shown in parentheses.

Subject combinations and pre-requisites.

A pass at Division I level or higher in QA02 Computing Science II or QA12 Computing Science IIC is the pre-requisite for QA03 Computing Science III, QA13 Computing Science IIIA, QA83 Computing Science IIIM, and all third-year units.

Students intending to take Honours Computing Science are strongly advised to include the units A301, A302, A303, A304, A306 and A307 in their course. Although these units are not formal pre-requisites for Honours work, they form an important background to it.

The subjects offered are:

QA03 Computing Science III.

This subject consists of any six of the third-year units A301, A302, A303, A304, A306, A307, A308, A309 offered by the Department of Computing Science.

QA13 Computing Science IIIA.

The course consists of six third-year units offered by Departments in the Faculty of Mathematical Sciences and selected with the approval of the Chairmen of all Departments concerned. The units selected must satisfy the following requirements:

- (i) at least four units must be selected from units offered by the Department of Computing Science;
- (ii) at least one unit must be selected from units offered by other Departments in the Faculty of Mathematical Sciences.

QA83 Computing Science IIIM.

The course consists of six third-year units selected with the approval of the Heads/Chairmen of all Departments concerned. The units selected must satisfy the following requirements:

- (i) at least four units must be selected from units offered by the Department of Computing Science;
- (ii) at least one unit must be selected from units offered by Departments in another Faculty.

(For the purpose of this subject, a double unit in another Faculty is regarded as two single units.)

HONOURS DEGREE OF B.A. OR B.Sc.

QA99 Honours Computing Science.

The normal pre-requisites are passes at a standard satisfactory to the Chairman of the Department in the following: QA03 Computing Science III *or* QA13 Computing Science IIIA *or* QA83 Computing Science IIIM, and one other third-year subject offered by the Departments of Pure Mathematics, Applied Mathematics or Statistics. Students with a different background of third-year courses may be accepted at the discretion of the Chairman of the Department of Computing Science.

The course will be determined from year to year and will consist partly of lectures given in the Department of Computing Science, and partly of lectures given in other departments of the Faculty of Mathematical Sciences. It will normally include topics selected from the following: operating systems, advanced numerical analysis, advanced programming languages, theory of languages, simulation, artificial intelligence.

Students will be required to undertake a major computing project, under the guidance of a supervisor.

Intending students should consult the Chairman of the Department of Computing Science not later than the end of the preceding year, and be prepared to commence work on a suitable project in the first week of February.

ECONOMICS AND COMMERCE

(FOR THE DEGREE OF BACHELOR OF SCIENCE)

IN THE FACULTY OF MATHEMATICAL SCIENCES.

Introductory Notes.

The first-year and second-year Economics subjects and half-subjects available to Mathematical Sciences students are listed in Schedule I of the degree of Bachelor of Science in the Faculty of Mathematical Sciences. For syllabuses please see under the degree of Bachelor of Economics in the Faculty of Economics. Two third-year Economics subjects for Mathematical Sciences are available, namely:

| | |
|---|--|
| EE03 Economics III (Mathematical Sciences). | EC33 Commerce III (Mathematical Sciences). |
|---|--|

and details of these are given below.

For students wishing to include EE03 Economics III (Mathematical Sciences) in a Mathematical Sciences degree, the recommended choice of subjects is:

First Year: Four subjects including

EE11 Economics I
QM01 Mathematics I

and at least one of
QA7H Computing IH and
QT7H Statistics IH

Second Year:

EE3G Macroeconomics IIIH
EE4G Microeconomics IIIH

and 2 Mathematical Sciences subjects

Third Year:

EE03 Economics III (Mathematical Sciences), and a Mathematical Sciences subject.

For students wishing to include EC33 Commerce III (Mathematical Sciences) in a Mathematical Sciences degree, the recommended choice of subjects is:

First Year: Four subjects including

| | |
|------------------------|--------------------|
| EC01 Accounting I | QM01 Mathematics I |
| EE2G Microeconomics IH | QT7H Statistics IH |

(Inclusion of EE11 Economics I (in place of EE2G Microeconomics IH) and/or QA7H Computing IH is also desirable.)

Second Year:

EC02 Accounting II, and 2 Mathematical Sciences subjects

Third Year:

EC33 Commerce III (Mathematical Sciences), and a Mathematical Sciences subject.

The third year Economics half-subjects available within EE03 Economics III (Mathematical Sciences) and EC33 Commerce III (Mathematical Sciences) are each equivalent to two third-year Mathematical Sciences units. These half-subjects are also available for inclusion in some mixed third-year (IIIM) subjects offered by Mathematical Sciences Departments.

Mathematical Sciences students who have taken appropriate options in EE03 Economics III (Mathematical Sciences) may proceed to Honours in Economics subject to the permission of the Faculty of Mathematical Sciences and the Department of Economics. Students interested in this possibility should consult the Chairman of the Department of Economics before enrolling in EE03 Economics III (Mathematical Sciences).

EE03 Economics III (Mathematical Sciences).

This subject is available only to Mathematical Sciences students who have passed EE3G Macroeconomics IIH and EE4G Microeconomics IIH.

The course consists of the equivalent of *six* units selected from the following list of options, in which EE13 Economic Development III and EE33 Economics IIIA are equivalent to *four* units and all other options are equivalent to *two* units:

| | | | |
|-------------------------------|-----|----------------------------------|-----|
| EE13 Economic Development III | (4) | EE7H Managerial Economics IIIH | (2) |
| EE33 Economics IIIA | (4) | EE8H Econometrics IIIH | (2) |
| EE8G Economic History IIIH | (2) | EE9G Economics of Antitrust and | |
| EE2H Public Finance IIIH | (2) | Regulation IIIH | (2) |
| EE3H Economics of Labour IIIH | (2) | EE9H Mathematical Economics IIIH | (2) |
| EE4H Agricultural Economics | | EE8F Economic Theory IIIH | (2) |
| IIIH | (2) | | |

For syllabuses and pre-requisites for these options please see under the degree of Bachelor of Economics in the Faculty of Economics. Students must have passed the pre-requisite subjects or half-subjects relevant to the options included.

The options selected must include:

either EE33 Economics IIIA *or* EE13 Economic Development III

EC33 Commerce III (Mathematical Sciences).

This subject is available only to Mathematical Sciences students who have passed EC02 Management Accounting II.

This course consists of a selection of the equivalent of *six* units from the following list, in which EC03 Accounting III and EC23 Industrial Sociology III are each equivalent to *four* units and all other options are equivalent to *two* units:

| | | | |
|----------------------------|-----|-------------------------------|-----|
| EC03 Accounting III | (4) | EC23 Industrial Sociology III | (4) |
| EC4H Business Finance IIIH | (2) | EC5H Marketing IIIH | (2) |
| LL2H Commercial Law IH | (2) | | |

For syllabuses and pre-requisites for these options, please see under the degree of Bachelor of Economics in the Faculty of Economics, noting that either QT7H Statistics IH or QT02 Mathematical Statistics II is acceptable as a pre-requisite in lieu of EE22 Economic Statistics II or EE32 Economic Statistics IIA.

Students must have passed the pre-requisite subjects or half-subjects relevant to the options included.

At least one of the options EC03 Accounting III, and EC4H Business Finance IIIH must be included.

With the permission of the Chairman of the Department of Commerce, at most one two-unit option may be replaced by two third-year units offered by Mathematical Sciences Departments. In such cases the units and options selected for the course must be approved by the Chairmen of all Departments concerned.

MATHEMATICAL PHYSICS.

The pre-requisites for QF13 Mathematical Physics III and QF03 Theoretical Physics are passes at Division I or higher standard in two second-year subjects from QM02 Pure Mathematics II, QN22 Applied Mathematics IIA (or QN12 Applied Mathematics IIB) and SP02 Physics II. Students intending to do Honours are advised to take at least 8 units chosen in consultation with the Chairman of the Department.

The Department offers the following units most of which consist of two or three lectures a week, and a tutorial, for one term:

F301 MATHEMATICAL METHODS: First Term.

Vector and Tensor Analysis. Theory and applications of distributions.

F302 ADVANCED DYNAMICS: First Term.

Newtonian mechanics. Lagrange's and Hamilton's equations of motion.

F303 QUANTUM MECHANICS I: Second Term.

This unit is essential for students wishing to study molecular, atomic or nuclear physics at an advanced level. The subject is developed from first principles, with emphasis on the use of Hilbert space, and some elementary applications are included.

F304 THEORY OF RELATIVITY: Second Term.

Lorentz transformations. Minkowski space, kinematics and dynamics of point particles, electromagnetism, charged particle motions.

The Physics Unit P309 is identical (see footnote to third-year timetable).

F307 STATISTICAL MECHANICS: Second Term.

Equilibrium distributions; microcanonical, canonical, grand-canonical. Non-interacting systems, Boltzman, Fermi-Dirac and Bose-Einstein statistics. Connection with thermodynamics.

F305 QUANTUM MECHANICS II: Third Term.

This unit is strongly recommended to students wishing to proceed to honours in Mathematical Physics. It includes more advanced applications, and is a continuation of F303, a knowledge of which is assumed.

F306 CLASSICAL FIELD THEORY: Third Term.

Lagrangian field theories. Conservation laws. Hamiltonian formulation. Electrodynamics. Green's functions. Boundary value problems. Liénard-Wiechert potentials. Radiation from moving charges. Macroscopic theory.

The subjects offered are:

QF03 Theoretical Physics III.

This is a group C science subject and may be taken only with another group C subject listed in the Syllabus of a Department of the Faculty of Science. It consists of at least six units which will normally include at least five of the units F301-F307 (or four if the unit F304 Theory of Relativity is taken as the Physics Unit P309 of SP03 Physics III or SP83 Physics IIIM). The remaining unit(s) should be chosen, with the approval of the Chairman of the Department from units offered by Departments of the Faculty of Mathematical Sciences.

QF13 Mathematical Physics III.

This is a third-year subject of the Faculty of Mathematical Sciences and may be taken with any other subject listed among the third-year subjects of Schedule I of that faculty. It consists of at least six units which will normally include at least five of the units F301-F307.

HONOURS DEGREE.

QF99 Honours Mathematical Physics.

Students who have reached a satisfactory standard in at least four of the third-year units F301-7, and other third-year Science or Mathematical Sciences units, may be permitted to proceed to the Honours course.

The course will contain lectures on most of the following subjects: general theory of relativity, relativistic quantum mechanics, field theory, statistical mechanics, quantal many body theory, electricity and magnetism, advanced plasma dynamics, theoretical nuclear physics, particle physics, irreversible statistical mechanics, together with a selection of lectures drawn from the honours programmes of the Departments of Physics and Mathematics. In addition students will be required to submit a thesis containing a review of, or original contributions to, some advanced topic in mathematical physics, to be approved in advance by the Chairman of the Department. A reading knowledge will be required of at least one foreign language.

MATHEMATICS.

INTRODUCTORY NOTES.

1. Attention is drawn to the pre-requisite subjects for admission to the various courses and units as prescribed in the syllabuses below.
2. The Departments of Pure and Applied Mathematics offer the following courses:
First Year: *QM01 Mathematics I, QM11 Mathematics IM, QM7H Mathematics IH (half-subject).
Second Year: *QM02 Pure Mathematics II, *QN22 Applied Mathematics IIA, *QN12 Applied Mathematics IIB.
Third Year: *QM03 Pure Mathematics III, *QM13 Pure Mathematics IIIA, QM83 Pure Mathematics IIIM, *QN03 Applied Mathematics III, *QN13 Applied Mathematics IIIA, QN83 Applied Mathematics IIIM, Mathematics III (Engineering) (Part 9 of Engineering II and III).
Fourth Year: QM99 Honours Pure Mathematics, QN99 Honours Applied Mathematics.

Subjects marked * are Mathematical Sciences subjects and may count towards the requirements of Section 3 of Schedule II for the Ordinary degree of B.Sc. in the Faculty of Mathematical Sciences. The fourth-year courses are available only in the Faculty of Mathematical Sciences.

3. The courses QN22 Applied Mathematics IIA and QN12 Applied Mathematics IIB are similar in scope. QN12 Applied Mathematics IIB is designed to meet the mathematical requirements of Engineering students, but is also suitable for non-Engineering students.

A pass at Division I or higher standard in *either* QM01 Mathematics I *or* QM11 Mathematics IM is a pre-requisite for QN22 Applied Mathematics IIA *or* QN12 Applied Mathematics IIB, but QM01 Mathematics I provides the better background and preparation.

A pass at Division I or higher standard in *either* QN22 Applied Mathematics IIA *or* QN12 Applied Mathematics IIB is a sufficient pre-requisite for all third-year Applied Mathematics units, but QN22 Applied Mathematics IIA is a better preparation for the probability units.

4. Students who have passed either of the mixed second-year subjects QN32 Applied-Pure Mathematics IIC *or* QN42 Applied-Pure Mathematics IID, which were given for the last time in 1977, should consult the Chairmen of the Applied and Pure Mathematics Departments if they wish to proceed to any third year mathematics subjects or units.

5. Subject to the approval of the Heads/Chairmen of all Departments concerned, two third-year units in Pure or Applied Mathematics can be combined with units from a Department in the Faculty of Science to make up a third-year Science subject.

6. For unacceptable combinations of subjects offered by the Pure and Applied Mathematics Departments please see the list of unacceptable combinations of subjects towards the end of this volume.

7. For students wishing to major in Applied Mathematics the recommended choice of subjects is:

- First Year: QM01 Mathematics I, QA7H Computing IH, QT7H Statistics IH + 2 subjects;
- Second Year: QN22 Applied Mathematics IIA, QM02 Pure Mathematics II + 1 subject;
- Third Year: QN03 Applied Mathematics III + 1 subject.

The alternative five first-year, two second-year, two third-year allows QA7H Computing IH, for example, to be taken in second year if not taken in first year.

8. For students wishing to major in Pure Mathematics, the recommended choice of subjects is:

- First Year: QM01 Mathematics I, QA7H Computing IH, QT7H Statistics IH + 2 subjects;
- Second Year: QM02 Pure Mathematics II + 2 subjects, at least one of which should be a Mathematical Sciences subject;
- Third Year: QM03 Pure Mathematics III + a Mathematical Sciences subject.

9. For students with special interest in mathematical logic, philosophy courses (with the logic options) are particularly suitable for combining with pure mathematics.

10. A student who may wish to become a teacher of mathematics is strongly advised to study some computing science and statistics in addition to mathematics.

FIRST-YEAR SUBJECTS.

QM01 Mathematics I.

A knowledge of Matriculation Mathematics I and II will be assumed.

The course comprises four lectures and one two-hour tutorial class a week.

A pass in it at Division I or higher standard is sufficient for entrance to any second-year subject offered by the Departments of Pure and Applied Mathematics.

The syllabus comprises: functions of one and two variables, differentiation and integration, Taylor series; differential equations; the vector space \mathbb{R}^n , linear equations and transformations, determinants, matrices, eigenvalues, quadratic forms, and elementary number theory.

Text-books:

Anton, H., *Elementary linear algebra*, 2nd edition (Wiley).

Leithold, L., *The calculus with analytic geometry*, 3rd edition (Harper International Edition).

QM11 Mathematics IM.

This course is intended for students who have studied Matriculation Mathematics IS, and a knowledge of this subject will be assumed. (Matriculation Mathematics I and II, or Matriculation Mathematics I if taken before 1971, would also provide a suitable background.)

A pass in QM11 Mathematics IM at Division I level or higher, is sufficient for entrance to: QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB.

Exceptionally, a student obtaining a pass at Distinction level in QM11 Mathematics IM may, with the permission of the Chairman of the Department of Pure Mathematics, proceed to QM02 Pure Mathematics II.

The course comprises four lectures and one two-hour tutorial class a week.

The syllabus comprises differential and integral calculus of functions of one or two real variables; differential equations; Taylor series; vectors, linear equations, matrices and determinants; the vector space \mathbb{R}^n , linear transformations, eigenvalues; systems of linear inequalities; introduction to number theory.

Text-books:

Anton, H., *Elementary linear algebra*, 2nd edition (Wiley).

Leithold, L., *The calculus with analytic geometry*, 3rd edition (Harper International Edition).

QM7H Mathematics IH.

This course is intended for students who do not wish to proceed to further courses in mathematics. It will assume a knowledge of Matriculation Mathematics IS. (Matriculation Mathematics I and II, or Matriculation Mathematics I if taken before 1971, would also provide a suitable background.) The course comprises two lectures and a one-hour tutorial class a week.

The syllabus comprises differential and integral calculus, differential equations, vectors, linear equations, matrices and determinants.

SECOND-YEAR SUBJECTS.

QM02 Pure Mathematics II.

Pre-requisite subject: QM01 Mathematics I at Division I or higher standard.

Exceptionally, a student, who obtains a pass at Distinction level in QM11 Mathematics IM, may, subject to the approval of the Chairman of the Department of Pure Mathematics, enrol in QM02 Pure Mathematics II.

The course comprises four lectures and one tutorial class a week.

The syllabus comprises six sections:

M1 ANALYSIS (real and complex sequences and series, power series). First term.

Text-book:

Spivak, M., *Calculus* (Benjamin).

M2 ALGEBRA (permutations, groups, polynomials). First term.

Text-book:

Fraleigh, J. B., *A first course in abstract algebra* (Addison-Wesley).

M3 MULTIVARIABLE MATHEMATICS (linear algebra, functions of several variables, multiple integrals). Second term.

M4 GEOMETRY (a deductive approach to Euclidean geometry). Second term.

Text-books:

Coxeter, H. S. M., *Introduction to geometry* (Wiley); OR

Maxwell, E. A., *Geometry for advanced pupils* (O.U.P.).

M5 COMPLEX FUNCTIONS (complex functions, including contour integration and conformal mapping, together with applications). Third term.

Text-books:

Marsden, J. E., *Basic complex analysis* (Freeman); OR

Churchill, R. V., and others, *Complex variables and applications*, 3rd edition (McGraw-Hill).

Marsden is recommended for students who are likely to do third-year Pure Mathematics.

M6 COMBINATORICS (combinations, recursive relations, generating functions, discrete problem solving). Third term.

Text-book:

Anderson, I., *A first course in combinatorial mathematics* (Oxford, Clarendon Press).

Some of the above sections are especially suitable for secondary mathematics teachers who may wish to enrol as visiting students.

QN22 Applied Mathematics IIA.

Pre-requisite subject: QM01 Mathematics I or QM11 Mathematics IM at Division I or higher standard. QM01 Mathematics I provides a better background and preparation than QM11 Mathematics IM.

Students taking this course are advised to obtain some knowledge of computer programming beforehand, e.g. via the course QA7H Computing IH. Special arrangements will be made in orientation week to assist students who do not possess such prior computing knowledge.

The course comprises four lectures (M12, Tu12, W12, Th12) and one tutorial class a week. However, lectures on M12, W12 will be the same as the lectures on M9, W9 in QN12 Applied Mathematics IIB.

The syllabus comprises six sections:

N1 DIFFERENTIAL EQUATIONS (First term: M12, W12).

Ordinary and partial differential equations.

N2A VECTORS AND MECHANICS (First term: T12, Th12).

Gradient, divergence and curl, integral theorems, particle mechanics, basic conservation laws of mechanics.

N3 FOURIER SERIES AND LAPLACE TRANSFORM (Second term: M12, W12).

Fourier series for functions of arbitrary period, half range expansions, even and odd functions, complex form of Fourier series, Laplace transforms of derivatives and integrals, applications to differential equations.

N4A PROBABILITY AND APPLICATIONS (Second term: T12, Th12).

Conditional probability, distributions, elementary games theory.

N5 LINEAR PROGRAMMING (Third term: M12, W12).

Simplex algorithm, duality, transportation problem.

N6A CONTINUUM MECHANICS (Third term: T12, Th12).

Cartesian tensors, introduction to fluid mechanics, introduction to solid mechanics.

Text-books:

Kreyszig, E., *Advanced engineering mathematics*, 4th edition (Wiley).

Trustum, K., *Linear programming* (Routledge).

QN12 Applied Mathematics IIB.

Pre-requisite subject: QM01 Mathematics I or QM11 Mathematics IM at Division I or higher standard. QM01 Mathematics I provides a better background and preparation than QM11 Mathematics IM.

The course comprises four lectures (M9, Tu9, W9, Th9) and one tutorial class a week. However, lectures on M9, W9 will be the same as the lectures on M12, W12 in QN22 Applied Mathematics IIA.

This course is designed to meet the needs of engineering students, but is also available to non-engineering students, and provides a sufficient preparation for third-year Applied Mathematics courses.

The syllabus comprises six sections:

N1 DIFFERENTIAL EQUATIONS (First term: M9, W9).

Ordinary and partial differential equations.

N2B VECTORS AND TENSORS (First term: T9, Th9).

Gradient, divergence and curl, integral theorems, cartesian tensors.

N3 FOURIER SERIES AND LAPLACE TRANSFORM (Second term: M9, W9).

Fourier series for functions of arbitrary period, half range expansions, even and odd functions, complex form of Fourier series. Laplace transforms of derivatives and integrals, application to differential equations.

N4B PROBABILITY AND STATISTICAL METHODS (Second term: T9, Th9).

Sample mean and variance, random variables, distributions, quality control, fitting straight lines.

N5 LINEAR PROGRAMMING (Third term: M9, W9).

Simplex algorithm, duality, transportation problem.

N6B COMPLEX VARIABLES AND NUMERICAL ANALYSIS (Third term: T9, Th9).

Complex analytic functions, complex integrals, numerical solution of ordinary and partial differential equations.

Text-books:

Kreyszig, E., *Advanced engineering mathematics*, 4th edition (Wiley).

Trustum, K., *Linear programming* (Routledge).

NOTE: Any student enrolled for QN12 Applied Mathematics IIB can attend M12, W12 lectures instead of M9, W9 if his timetable does not permit otherwise. Similarly, any student enrolled for QN22 Applied Mathematics IIA can attend M9, W9 lectures instead of M12, W12 lectures. Any such student should seek prior permission from the Chairman of the Department.

THIRD-YEAR SUBJECTS IN PURE MATHEMATICS.

The Department of Pure Mathematics offers the following units. The third term units M324, M332 and M321 consist of six lectures and one tutorial a fortnight for the term, while the remaining units consist of five lectures and one tutorial a fortnight for one term.

The pre-requisite subjects for individual units are stated below. Note that in each case a pass at Division I level or higher is required in one of the pre-requisite subjects.

QM02 Pure Mathematics II is the pre-requisite for the units below, except that:

(i) any second year Mathematical Sciences subject is a sufficient pre-requisite for M342 (Logic);

(ii) QM01 Mathematics I is a sufficient pre-requisite for M343 (History of Mathematics).

In addition the unit M332 (Rings and Modules) presupposes a knowledge of M331 (Groups).

Note that since 1979 the two units M303 (Analysis II) and M313 (Complex Functions) given in previous years have been replaced by the single unit M323 (Complex Analysis), for which QM02 Pure Mathematics II is a pre-requisite. Much of the material previously covered in the unit M313 (Complex Functions) is now contained in section M5 (Complex Functions) of QM02 Pure Mathematics II.

Students who have passed any of the (now discontinued) second year mixed subjects and who wish to proceed to some third year Pure Mathematics are advised to consult the Chairman of the Department.

Units M321 (Applicable Analysis), M343 (History of Mathematics) and M334 (Number Theory) are particularly recommended for suitably qualified secondary mathematics teachers who wish to enrol as visiting students. Attention is also drawn to the note on the use of sections of QM02 Pure Mathematics II for this purpose.

M322 ANALYSIS (First term: M10, Tu10, Th10).

Metrics and norms, continuity, convergence, and topological concepts. Completeness and compactness, uniform convergence. Connectedness.

M334 NUMBER THEORY (First term: Tu12, Th12, F3).

This unit assumes an elementary knowledge of computer programming.

Congruences, arithmetical functions, finite fields, quadratic fields, irrational numbers, applications.

M342 LOGIC (First term: M12, W12, F12).

Propositional calculus, completeness theorem. First order logic, models, completeness theorem. Incompleteness, arithmetisation of syntax, Gödel-Rösser theorem.

Text-book:

Crossley, J. N., *What is mathematical logic?* (O.U.P.).

M343 HISTORY OF MATHEMATICS (Second term: Tu12, Th12, F3).

The development of number, function, solution of polynomial equations, and the concept of proof are traced, with particular emphasis on the period 1400-1900 A.D.

Text-book:

Eves, H., *An introduction to the history of mathematics* (Holt, Rinehart and Winston).

M323 COMPLEX ANALYSIS (Second term: M10, Tu10, Th10).

This unit assumes a knowledge of the QM02 Pure Mathematics II sections M1 (Analysis) and M5 (Complex Functions).

The basic theory of holomorphic functions including conformal mapping, Cauchy's integral theorem and the residue theorem, together with selected applications.

Text-books:

Ahlfors, L. V., *Complex analysis* (McGraw-Hill); OR

Marsden, J. E., *Basic complex analysis* (Freeman).

M331 GROUPS (Second term: M12, W12, F12).

A systematic treatment including homomorphisms, Sylow theory, direct products, free groups, finitely generated abelian groups.

Text-book:

Shapiro, L. W., *Introduction to abstract algebra* (McGraw-Hill).

M324 INTEGRATION (Third term: M10, Tu10, Th10).

Countable and uncountable sets. Lebesgue measure. The Lebesgue integral of a real valued function of n variables and its applications.

M332 RINGS AND MODULES (Third term: M12, W12, F12).

Rings, integral domains and fields. Modules over a principal ideal domain.

Text-book:

Hartley, B., and Hawkes, T. O., *Rings, modules and linear algebra* (Chapman and Hall).

M321 APPLICABLE ANALYSIS (Third term: Tu12, Th12, F3).

Inner products, Hilbert space, operators, spectral theorem for compact self-adjoint operators. Orthogonal functions, recurrence relations. Fourier series.

M333 GEOMETRY.

This unit will not be given in 1981.

The subjects offered are:

QM03 Pure Mathematics III.

Pre-requisite: a pass in QM02 Pure Mathematics II at Division I or higher standard.

The subject is designed to provide a balanced introduction to the main aspects of modern pure mathematics.

The course consists of six third year Pure Mathematics units selected to satisfy the following requirements:

- (i) the units M331 (Groups) and M322 (Analysis) must be included;
- (ii) at least one unit must be selected in each term.

However, at the discretion of the Chairman of the Department, a student may in exceptional circumstances be permitted to substitute another unit given in the department for one of the units normally required for Pure Mathematics III. Intending honours students are encouraged to take additional units. They are strongly advised to take M324 (Integration) and M332 (Rings and Modules), a knowledge of which will be assumed in compulsory analysis and algebra courses in QM99 Honours Pure Mathematics IV.

QM13 Pure Mathematics IIIA.

Pre-requisite: a pass in QM02 Pure Mathematics II at Division I or higher standard.

The course consists of six third year Mathematical Sciences units selected with the approval of the Chairmen of all departments concerned.

The units selected by students proceeding from QM02 Pure Mathematics II must satisfy the following requirements:

- (i) at least four Pure Mathematics units must be selected;
- (ii) the units M322 (Analysis) and M331 (Groups), must be included;
- (iii) at least one unit must be selected from units offered by other Mathematical Sciences Departments.

Students who have passed any of the (now discontinued) second-year mixed subjects and who wish to take Pure Mathematics IIIA should consult the Chairman of the Department.

QM83 Pure Mathematics IIIM.

Pre-requisite: a pass in QM02 Pure Mathematics II at Division I or higher standard.

The course consists of six third year units selected with the approval of the Chairmen of all departments concerned. The units selected must satisfy the following requirements:

- (i) at least four Pure Mathematics units must be selected;
- (ii) the units M322 (Analysis) and M331 (Groups) must be included;
- (iii) at least one unit must be selected from units offered by departments outside the Faculty of Mathematical Sciences.

(For the purpose of this subject, a double unit in the Faculty of Science is regarded as two single units.)

THIRD-YEAR SUBJECTS IN APPLIED MATHEMATICS.

The Department of Applied Mathematics offers the following units, each of which consists of three lectures a week and one tutorial a fortnight for one term. A pass at Division I or higher standard in QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB is the pre-requisite for all third-year Applied Mathematics units, but QN22 Applied Mathematics IIA is the better preparation for the third-year probability units N302 and N309. In addition as specified below, N309 (Queues) assumes a knowledge of applied probability such as given in Unit N302.

N301 ELASTICITY (First term: Tu9, Th9, F10).

An introduction to tensor analysis, analysis of stress and strain, stress-strain relations for elastic materials, plane and three dimensional boundary value problems.

N302 APPLIED PROBABILITY (First term: M2, W10, F2).

Markov Chains: classification of states, solidarity properties, criteria for transience and recurrence. Random walks. Absorption probabilities. Birth and death processes. Markov Chains with rewards. Branching processes.

N303 CALCULUS OF VARIATIONS (Third term: M9, W9, F9).

Euler-Lagrange equation, constrained extrema and Lagrange multipliers. Extension to several variables, variable end points. Applications in mechanics. Direct methods. Introduction to control theory.

N304 HYDRODYNAMICS (Second term: Tu9, Th9, F10).

Classical hydrodynamics of an inviscid fluid. Bernoulli theorem. Irrotational flows. Introduction to viscous flows. Vector (but not tensor) methods will be used. Some use may be made of complex variable analysis, which will be taught as part of the unit as required.

N305 MATHEMATICAL PROGRAMMING (Third term: M2, W10, F2).

A selection of topics from: advanced linear programming, network theory, integer programming, dynamic programming and applications.

N306 DIFFERENTIAL EQUATIONS (First term: M9, W9, F9).

A selection of topics from: Existence and uniqueness. Critical points and stability theory. Analysis of linear systems. Sturm-Liouville theory. Eigenfunction expansions. Integral equations. Partial differential equations. Asymptotic expansions.

N308 OPTIMISATION (Second term: M9, W9, F9).

Single and multi-variable optimisation, search and gradient methods, Kuhn-Tucker theory for constrained optimisation: algorithms and applications.

N309 QUEUES (Second term: M2, W10, F2).

A knowledge of applied probability such as given in Unit N302, is assumed.

A selection of topics from: Birth and death processes. Kolmogorov differential equations. Analyticity condition techniques. Method of phases. Supplementary variable and imbedded chain approaches. Little's formula. Lindley's theorem. Kiefov and Wolfowitz's theorem. Elementary renewal theorem. Applications to telephony.

N310 MATHEMATICAL BIOLOGY (Third term: Tu9, Th9, F10).

No prior knowledge of biology is assumed.

A survey of applications of mathematics to various biological science problem areas, for example: epidemics, genetics, ecology, evolution, enzyme kinetics, diffusion, nerve impulse conduction, tissue and muscle mechanics, blood flow, motility.

The subjects offered are:

QN03 Applied Mathematics III.

The course consists of six of the nine units listed above. At least one unit must be selected in each term.

Students who may wish to proceed to QN99 Honours Applied Mathematics IV will be encouraged to take additional units and are advised to see the Chairman of the Department before enrolling.

QN13 Applied Mathematics IIIA.

The course consists of six third-year units offered by departments in the Faculty of Mathematical Sciences and selected with the approval of the Chairmen of all departments concerned. The units selected must satisfy the following requirements:

- (i) at least four units must be selected from units offered by the Department of Applied Mathematics;
- (ii) at least one unit must be selected from units offered by other departments in the Faculty of Mathematical Sciences.

QN83 Applied Mathematics IIIM.

The course consists of six third-year units selected with the approval of the Heads/Chairmen of all departments concerned. The units selected must satisfy the following requirements:

- (i) at least four units must be selected from units offered by the Department of Applied Mathematics;
- (ii) at least one unit must be selected from units offered by departments outside the Faculty of Mathematical Sciences;

For the purpose of this subject, a double unit in the Faculty of Science is regarded as two single units.

MATHEMATICS FOR THE HONOURS DEGREE OF B.A. OR B.SC.

N.B. Students who are considering taking course QM99 or QN99 are advised to consult with the Chairmen of the Departments as early as possible.

QM99 Honours Pure Mathematics (B.A. or B.Sc.)

Students are required to consult with the Chairman of the Department of Pure Mathematics, preferably no later than the end of the year preceding their enrolment, in order to ensure that they have obtained the necessary pre-requisite knowledge at a satisfactory standard, to plan their course of study and discuss their choice of project. All students are required to obtain the approval of the Chairman of the Department of Pure Mathematics before enrolling for QM99 Honours Pure Mathematics.

The normal pre-requisites are:

- (i) QM03 Pure Mathematics III;
- (ii) a knowledge of the material of Units M332 (Rings and Modules) and M324 (Integration);
- (iii) a third-year subject offered by another Department in the Faculty of Mathematical Sciences.

Students with a different background of third-year courses may be accepted at the discretion of the Chairman of the Department of Pure Mathematics.

The lecture course will be determined from year to year. Students will be required to make a selection from units offered by the Department of Pure Mathematics, by other departments of the Faculty of Mathematical Sciences, and by the School of Mathematical Sciences at The Flinders University of S.A., including some compulsory units in Algebra and Analysis; units offered by other departments may also be available.

Each student will be assigned a supervisor who will advise on the choice of lecture programme and give guidance in the writing of a project on some topic in mathematics. Work on this project should begin in the Department in the first week of February and should be completed by the end of the third term's lecture programme.

RECOMMENDED PROGRAMME FOR TEACHERS OR PROSPECTIVE TEACHERS.

The Department of Pure Mathematics offers an optional Recommended Programme for Teachers or Prospective Teachers within QM99 Honours Pure Mathematics. This Programme consists of a recommended selection of units, some of which have been specially designed for the purposes of the Programme. Students taking the whole of this Programme may be permitted to replace the project normally required by two minor projects on topics appropriate to the Programme. The Programme is recommended in particular to potential secondary mathematics teachers.

Some units within the Recommended Programme for Teachers or Prospective Teachers will be available to suitably qualified secondary mathematics teachers who wish to attend as Visiting Students.

QN99 Honours Applied Mathematics (B.A. or B.Sc.)

Students who are considering taking this subject are advised to see the Chairman of the Department as soon as possible, preferably before enrolling for their third-year courses.

All students are required to obtain the approval of the Department of Applied Mathematics before enrolling for QN99 Honours Applied Mathematics.

The normal pre-requisites are passes at a standard satisfactory to the Department in the following:

- (i) QN03 Applied Mathematics III *or* QN13 Applied Mathematics IIIA *or* QN83 Applied Mathematics IIIM;
- (ii) a third-year subject offered by the Department of Pure Mathematics, Statistics, Computing Science or Mathematical Physics;
- (iii) and such additional third-year units as may be required.

Students with a different background of the third-year courses may be accepted at the discretion of the Department of Applied Mathematics.

The lecture course will be determined from year to year. Students will be required to make a selection from units offered by the Departments of Applied Mathematics, Pure Mathematics, Statistics, Computing Science, Mathematical Physics and by the Schools of Mathematical and Earth Sciences at The Flinders University of S.A. Students may normally take any appropriate third-year Applied Mathematics units which have not already been taken.

Each student will be assigned a supervisor who will advise him on and approve his choice of lecture programme and guide him in the writing of a project on some topic in Applied Mathematics. Possible topics should be discussed with the staff before the end of the preceding year. Work on the chosen project should begin in the Department in the first week of February and should be completed by the end of the third term's lecture programme.

SPECIAL COURSE FOR PROSPECTIVE TEACHERS.

Special units are available for students taking QN99 Honours Applied Mathematics as a preparation for teaching mathematics in, for example, a secondary school. A comprehensive course for any such student will be determined according to his background of second- and third-year subjects, and the normal honours project may be replaced by two minor projects relevant to mathematics teaching. Such students are strongly advised to see the Chairman of the Department as soon as possible.

POSTGRADUATE STUDIES IN MATHEMATICS AND EDUCATION.

Students who hold a degree (or Honours degree) in Mathematics and the Diploma in Education and who have at least one year's experience of teaching approved by the Chairman of the Department of Education may undertake studies in Mathematics and Education as part of the Bachelor of Education or Master of Education courses in the Faculty of Arts.

STATISTICS.

Students who intend to take advanced courses in Statistics are advised to include the following first- and second-year subjects in their course. *First Year:* QT7H Statistics IH, QM01 Mathematics I or QM11 Mathematics IM. *Second Year:* QT02 Mathematical Statistics II, and QM02 Pure Mathematics II or QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB (as explained below, QM02 is pre-requisite for Honours Statistics).

Before enrolling in third-year unit courses, all students *must* discuss their programmes with the Chairman of the Department of Statistics.

A student who wishes, or who thinks he may wish, to proceed to Honours Statistics is advised to discuss his course programme with the Chairman of the Department of Statistics as early as possible.

QT7H Statistics IH.

No formal pre-requisites, but a knowledge of *either* Matriculation Mathematics IS *or* Matriculation Mathematics I and II would be helpful.

This first-year half-subject comprises two lectures and one hour tutorial a week. The emphasis in this introductory course is on logical aspects of statistics. Topics covered include description of data, relative frequency and probability, probability calculus, distributions, random sampling, estimation, hypothesis testing, confidence intervals, t-tests, simple linear regression, analysis of variance, Chi-square tests to fit and independence, non-parametric methods.

Text: No specific text-book is set, but lecture notes will be available from the Department of Statistics.

QT02 Mathematical Statistics II.

Pre-requisite subject: QM01 Mathematics I at Division I or higher standard *or* QM11 Mathematics IM at Credit standard or higher (exceptionally on approval of Head of Department, QM11 Mathematics IM at Division I standard). QT7H Statistics IH is strongly recommended for students contemplating taking QT02 Mathematical Statistics II.

The course comprises four lectures and two one-hour tutorials a week. Students who have not taken QT7H Statistics IH should familiarise themselves with the contents of this course.

Programming of statistical calculations forms an important part of QT02 Mathematical Statistics II. Students enrolled for this subject must take the preliminary course in Fortran programming on the University computer, given by the Mathematics Departments throughout orientation work, i.e. the week prior to the start of the first term lectures. Exemptions may be given to students who have demonstrated beforehand a proficiency in Fortran programming on this computer to the satisfaction of the Chairman of Department.

Syllabus: Probability and probability distributions as mathematical models of statistical data, applications of the normal, binomial, Poisson, Chi-square, t and F distributions, simple and multiple regression, analysis of variance, experimental design, quality control, introduction to some aspects of statistical inference, programming of statistical computations.

Text-books:

Lindgren, B. W., *Statistical theory*, 3rd edition (Macmillan).

Lindley, D. V., and Miller, J. C. P., *The Cambridge elementary statistical tables* (C.U.P.).

QT03 Mathematical Statistics III.

Pre-requisite subjects for all units: QT02 Mathematical Statistics II at Division I standard or higher and *any* one of QM02 Pure Mathematics II, QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB at Division II or higher.

Note: QM02 Pure Mathematics II at Division I or higher is pre-requisite for QT99 Honours Statistics.

The course comprises five lectures and two tutorial classes a week, together with a component of computing as specified below.

Units.

| | | |
|--------------|------|--------------------------------------|
| First Term: | T301 | Probability and Distribution Theory. |
| | T304 | Linear Models I. |
| Second Term: | T302 | Statistical Inference I. |
| | T305 | Linear Models II. |
| Third Term: | T303 | Statistical Inference II. |
| | T306 | Special Topics. |

In general any unit offered in second or third term presupposes a knowledge of all units given in preceding terms, however Statistical Inference I could be taken without Linear Models I, and Special Topics makes little use of Linear Models I and II.

Outline of Syllabuses.

T301 PROBABILITY AND DISTRIBUTION THEORY. (Three lectures and one tutorial class a week. First term.)

Calculus of distributions. Moments and cumulants. Moment generating functions. Exact distributions of interest in statistics. Definition and Properties of the multinormal distribution. Weak law of large numbers. Central Limit Theorem. Approximation of distributions. Order Statistics. An introduction to applied probability, especially the elementary stochastic processes.

T302 STATISTICAL INFERENCE I. (Two lectures and one tutorial a week. Second term.)

The likelihood function. Sufficiency and the sufficiency principle. Score and information functions. Construction of point estimators. Consistency. Efficiency. Cramer-Rao bound. Blackwell-Rao Theorem and completeness. Maximum likelihood estimators, with large sample properties. Tests of significance. Significance intervals. Hypothesis tests. Power functions. "Exact" tests for contingency tables. Likelihood ratio and chi-square tests.

T303 STATISTICAL INFERENCE II. (Three lectures and one tutorial a week. Third term.)

Likelihood ratio theory—*continued*. Construction and analysis of Generalised Linear Models and non-linear models, with applications. Interval estimation. Robust and distribution free techniques. Nonparametric inference. Comparative theories of inference.

T304 LINEAR MODELS I. (Two lectures and one tutorial a week. First term.)

Arithmetical arrays, lattices of subspaces, orthogonal projections, least squares, analysis of orthogonal experimental designs by the sweep method, computer programming of the analysis with examples, minimum variance consistent estimators.

T305 LINEAR MODELS II. (Three lectures and one tutorial a week. Second term.)

Normal theory and maximum likelihood. Sufficiency. Total and partial regression coefficients. Orthogonalised variables and reduced normal equations, non-linear regression, redundant specification, double classification with non-proportional class frequencies. Analysis of covariance, elementary multivariate analysis, discriminant functions. Variance components, experimental designs.

T306 SPECIAL TOPICS. (Two lectures and one tutorial a week. Third term.)

Bayesian inference and decision theory. Finite population sampling. An introduction to the analysis of time series.

COMPUTING.

The programming of statistical computations form an integral part of the course, and exercises requiring computer programming are periodically set throughout the year. The final assessment in the subject, and for individual units in the case of students taking statistics units as part of a IIIA or IIIM subject, will adduce evidence from the computing component of the course.

HONOURS DEGREE.

QT99 Honours Statistics (B.A. or B.Sc.).

Pre-requisite subjects: QM02 Pure Mathematics II, QT03 Mathematical Statistics III and the two Pure Mathematics III units M322 Analysis, and M324 Integration, at a standard satisfactory to the Chairman of the Department. QM03 Pure Mathematics III is highly recommended.

Students are strongly advised to acquire a reading knowledge of a modern foreign language, preferably French, German or Russian.

The course will be determined from year to year, and will comprise topics selected from the following: statistical inference, estimation theory, special topics in regression and the analysis of variance, experimental design, non-parametric methods, time series, multivariate analysis, measure theory, probability and stochastic processes, statistical programming, plus a selection of other topics from Honours Mathematics and other subjects.

The course also involves a class project.

Students are required to prepare a seminar under the supervision of a member of the Department and present it during orientation week. Work begins in the Department on the first Monday in February.

OF THE

DIPLOMA IN APPLIED STATISTICS

REGULATIONS

[NOTE: This course will not be offered in 1981.]

1. There shall be a postgraduate Diploma in Applied Statistics.
2. Except as provided for in regulation 3 a candidate for admission to the course for the diploma shall have qualified for admission to a degree of the University or to a degree of another university accepted for the purpose by the University and have obtained the approval of the Department of Statistics.
3. Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the diploma.
4. To qualify for the diploma a candidate shall satisfactorily complete a course of full-time study extending over at least one year or of part-time study extending over at least two years.
5. The course of study to be undertaken, and the examinations to be passed, shall be prescribed in schedules approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
6. A candidate who desires that the examinations which he has passed in the University or elsewhere should be counted for the Diploma in Applied Statistics, may on written application be granted such exemption from the requirements of these regulations as the Council shall determine.
7. There shall be three classifications of pass at an annual examination in any subject for the diploma; Pass with Distinction, Pass with Credit, and Pass. The names of the candidates in each classification shall be arranged in alphabetical order.
8. (a) A candidate who fails to pass in a subject and desires to take the subject again shall again attend lectures and satisfactorily do such written and practical work as the professor or lecturer concerned may prescribe, unless specifically exempted therefrom after written application to the Academic Registrar for such exemption.
(b) A candidate who has twice failed to pass the examination in any subject or division of a subject may not enrol for that subject again except by special permission to be obtained in writing from the Academic Registrar and then only under such conditions as may be prescribed.
(c) For the purpose of this regulation a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Chairman of the Department of Statistics as adequate, to attend all or part of an annual examination (or supplementary examination if granted) after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.
9. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the Diploma in Applied Statistics.
10. These regulations shall come into force on a date to be determined by the Council.

Regulations awaiting allowance.

OF THE
DIPLOMA IN APPLIED STATISTICS
SCHEDULES

(Made by the Council under regulation 5.)

SCHEDULE I: COURSES OF STUDY

1. A candidate for the diploma shall regularly attend lectures and tutorials, do such written work as may be prescribed, and pass examinations in the following subjects.

QT14 Diploma Statistics I

QT34 Diploma Statistics III

QT24 Diploma Statistics II

2. A candidate shall also satisfactorily undertake and complete a course of practical work:

QT44 Statistics Project.

OF THE
DIPLOMA IN APPLIED STATISTICS
SYLLABUSES

Text-books:

Students are expected to procure the latest edition of all text-books prescribed.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

DIPLOMA IN APPLIED STATISTICS.

[NOTE: This course will not be offered in 1981.]

The Department of Statistics offers a postgraduate Diploma in Applied Statistics which may be taken in one year of full-time study or two or more years of part-time study. The aim of the course is to assist graduates from other disciplines to gain a sound knowledge of Applied Statistics. The course is not designed to cater for graduates in Statistics, or even those with significant knowledge of the contents of the third-year subject QT03 Mathematical Statistics III.

The course comprises 3 subjects made up of at least eight units selected from the following list, including at least three units from (iii):

- (i) any of the six units in QT03 Mathematical Statistics III; T301, T302, T303, T304, T305, T306;
- (ii) any of the four units in QN03 Applied Mathematics III; N302, N305, N309, N310;
- (iii) Statistical Practice I & II; Statistical Computing and Software Design; Medical Statistics; Biostatistics; Survey and Control Methods;
- (iv) other units which may be offered by the Department of Statistics from time to time.

In addition to the course work each student will be expected to complete a project chosen in consultation with and supervised by the Department of Statistics.

Graduates wishing to enrol must consult the Chairman of the Department of Statistics for advice and details of the units selected for their course. The course must be approved by the Chairman of the Department. Graduates are requested to commence their enquiries in December of the year before they enrol, and students may be required to commence their project in the first week of February.

Assumed Knowledge:

- (a) Applicants are expected to have passed at least one second-year subject taught by the Faculty of Mathematical Sciences. Applicants who have not passed QT02 Mathematical Statistics II will be required to do preparatory work before commencing their Diploma course.
- (b) Each candidate must be well acquainted with a substantial area of application for statistics such as Biology, Medicine, Engineering, Economics, etc.

Diploma subjects and project:

QT14 Diploma Statistics I.

QT24 Diploma Statistics II.

QT34 Diploma Statistics III.

QT44 Statistics Project.

OF THE

DIPLOMA IN COMPUTING SCIENCE

REGULATIONS

NOTE: There will be no new enrolments for this course in 1981.

1. There shall be a postgraduate Diploma in Computing Science.
2. Except as provided for in regulation 3 a candidate for admission to the course for the diploma shall have qualified for admission to a degree of the University or to a degree of another university accepted for the purpose by the University and have obtained the approval of the Department of Computing Science.
3. Subject to the approval of the Council the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the diploma a person who does not hold a degree of a university but has given evidence satisfactory to the Faculty of his fitness to undertake work for the diploma.
4. To qualify for the diploma a candidate shall satisfactorily complete a course of full-time study extending over at least one year or of part-time study extending over at least two years.
5. The course of study to be undertaken, and the examinations to be passed, shall be prescribed in schedules approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
6. A candidate who desires that the examinations which he has passed in the University or elsewhere should be counted for the Diploma in Computing Science, may on written application be granted such exemption from the requirements of these regulations as the Council shall determine.
7. There shall be three classifications of pass at an annual examination in any subject for the diploma: Pass with Distinction, Pass with Credit, and Pass. The names of the candidates in each classification shall be arranged in alphabetical order.
8. (a) A candidate who fails to pass in a subject and desires to take the subject again shall again attend lectures and satisfactorily do such written and practical work as the professor or lecturer concerned may prescribe, unless specifically exempted therefrom after written application to the Academic Registrar for such exemption.
(b) A candidate who has twice failed to pass the examination in any subject or division of a subject may not enrol for that subject again except by special permission to be obtained in writing from the Academic Registrar and then only under such conditions as may be prescribed.
(c) For the purpose of this regulation a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Professor of Computing Science as adequate, to attend all or part of an annual examination (or supplementary examination if granted) after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.
9. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the Diploma in Computing Science.

Regulations allowed 28 January, 1965.

Amended: 21 Dec. 1972: 6, 7; 28 Feb. 1974: 2, 3; 23 Jan. 1975: 2; 15 Jan. 1976: 5; 23 Dec. 1976: 2.

OF THE
DIPLOMA IN COMPUTING SCIENCE
SCHEDULES

(Made by the Council under regulation 5.)

NOTE: Syllabuses of subjects for the Diploma in Computing Science are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: COURSES OF STUDY

1. A candidate for the diploma shall regularly attend lectures and tutorials, do such written work as may be prescribed, and pass examinations in the following subjects:

QA04 Diploma Computing I

QA24 Diploma Computing III

QA14 Diploma Computing II

2. A candidate shall also satisfactorily undertake and complete a course of practical work:

QA34 Diploma Project.

OF THE
DIPLOMA IN COMPUTING SCIENCE
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

DIPLOMA IN COMPUTING SCIENCE.

[NOTE: There will be no new enrolments for this course in 1981.]

The Department offers a postgraduate Diploma in Computing Science which may be taken in one year of full-time study or two or more years of part-time study. The aim of the course is to assist graduates from other disciplines to gain a sound knowledge of Computing Science. The course is not designed to cater for graduates in Computing Science, or even those with significant knowledge of the contents of the third-year subject QA03 Computing Science III.

The course comprises a computing project and three subjects (each Diploma subject is equivalent to half a third-year subject) consisting of units. The units forming the subjects will be selected in consultation with the Department, according to the background, interests and progress of each student. Units will be selected from topics concerned with advanced programming, computer systems, data management, numerical analysis, operating systems, and simulation.

Graduates wishing to enrol must consult the Chairman of the Department of Computing Science for advice and details of the units selected for their course. The course must be approved by the Chairman of the Department. Graduates are requested to commence their enquiries in early October of the year before they enrol.

Pre-requisite subject: QA02 Computing Science II *or* QA12 Computing Science IIC. Students taking the Diploma part-time may take QA02 Computing Science II or QA12 Computing Science IIC concurrently with other Diploma studies and present it as one of the four subjects required for the Diploma. QA02 Computing Science II or QA12 Computing Science IIC may not be presented for both an Ordinary degree and the Diploma in Computing Science.

Assumed knowledge: Two Mathematical Sciences subjects or their equivalent at second- or third-year level. In addition, certain units offered for the Diploma assume a knowledge of certain units at the third-year level: this mainly applies to units drawn from QA99 Honours Computing Science.

Graduates with a lesser mathematical background are invited to apply to the Department and may be able to enrol in the Diploma by making special arrangements.

Diploma subjects and project:

QA04 Diploma Computing I.

QA14 Diploma Computing II.

QA24 Diploma Computing III.

QA34 Diploma Project.

OF THE DEGREE OF

MASTER OF SCIENCE

IN THE FACULTY OF MATHEMATICAL SCIENCES

REGULATIONS

1. The following persons may become candidates for the degree of Master of Science in the Faculty of Mathematical Sciences: (a) Bachelors of Arts, (b) Bachelors of Science, (c) other graduates whose academic qualifications are accepted by the Faculty of Mathematical Sciences as sufficient.

Provided that, subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold a degree of a university, but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.

Unless the candidate has obtained the Honours degree of Bachelor of Science in the Faculty of Mathematical Sciences he shall, before submitting his thesis as provided for in regulation 4, pass such qualifying examination as the Faculty may in the circumstances deem proper.

2. Subject to conditions to be determined in each case a graduate of a university recognised by the University of Adelaide, whose degree is accepted by the Faculty of Mathematical Sciences as equivalent to one of the qualifications required in regulation 1, may be allowed by the Council to proceed to the degree in compliance with these regulations. Every such candidate must spend at least three consecutive academic terms or twelve calendar months at the University of Adelaide or at an institution approved for the purpose by the University of Adelaide.

3. A candidate who holds the Honours degree or its equivalent in a university recognised by the University of Adelaide may proceed to the degree of Master of Science in the Faculty of Mathematical Sciences at the expiration of one year from the date of his admission to the Honours degree of Bachelor; no other candidate shall proceed to the degree before the expiration of two years from the beginning of his candidature.

4. To qualify for the degree a candidate shall submit a thesis upon an approved subject and shall adduce sufficient evidence that the thesis is his own work. The thesis shall give the results of original research or of an investigation on which the candidate has been engaged. A candidate may also submit other contributions to mathematical sciences in support of his candidature.

5. Every candidate shall give at least three terms' notice of his intended candidature, and shall indicate therewith in general terms the subject of the research work or investigation on which he proposes to submit a thesis. The Faculty of Mathematical Sciences, if it approve the subject of his research, may appoint a supervisor to guide the candidate in his work. The candidate shall submit his thesis not earlier than three terms and, except by special permission of the Faculty, not later than nine terms after approval by the Faculty of the subject of his research.

6. A candidate's progress shall be reviewed annually by the Faculty, under the provisions of clause 4c of Chapter XXV of the Statutes.

7. The Faculty shall appoint a Board of Examiners to report upon the thesis and any supporting papers that the candidate may submit. The Board of Examiners may require any candidate to pass an examination in the branch of science to which his original research or investigation is cognate.

8. A candidate for the degree of Doctor of Philosophy whose work is considered by the Faculty, after report by the examiners appointed to adjudicate upon it, not to be of sufficient merit to qualify for the degree of Doctor but of sufficient merit for the degree of Master may be admitted to the degree of Master provided that he is qualified to become a candidate for the degree.

9. On completion of his work a candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

10. A candidate who complies with the foregoing conditions and satisfies the Board of Examiners shall on the recommendation of the Faculty of Mathematical Sciences be admitted to the degree of Master of Science in the Faculty of Mathematical Sciences.

Regulations allowed 21 December, 1972.

Amended: 28 Feb. 1974: 3; 23 Jan. 1975: 6; 15 Jan. 1976: 6.

*Published in "Notes and Instructions to candidates for Higher Degrees": *see* Table of Contents.

OF THE DEGREE OF
DOCTOR OF SCIENCE
IN THE FACULTY OF MATHEMATICAL SCIENCES

REGULATIONS

1. (a) Subject to these regulations a person who has been admitted in the University of Adelaide to an Honours degree of Bachelor of Science or a degree of Master of Science, Arts or Economics, or to the degree of Doctor of Philosophy in a field of study approved by the Faculty of Mathematical Sciences, may proceed to the degree of Doctor of Science in the Faculty of Mathematical Sciences.

(b) On the recommendation of the Faculty of Mathematical Sciences the Council may accept as a candidate for the degree a person who has been admitted to a degree in the University of Adelaide other than one named in section (a) of this regulation, or who is a graduate of another university or institution of higher education recognised by the University of Adelaide and has a substantial association with the University; provided that in each case the graduate concerned has, in the opinion of the Faculty of Mathematical Sciences, had an adequate training in the mathematical sciences.

(c) No person shall be accepted as a candidate for the degree of Doctor of Science in the Faculty of Mathematical Sciences before the expiration of five years from the date of his original graduation.

2. (a) A person who desires to become a candidate for the degree shall give notice of his intended candidature in writing to the Academic Registrar and with such notice shall furnish particulars of his achievements in the mathematical sciences and of the work which he proposes to submit for the degree.

(b) The Faculty of Mathematical Sciences shall appoint a committee to examine the information submitted and to advise the Faculty on whether the Faculty should—(i) allow the applicant to proceed, and approve the subject or subjects of the work to be submitted; or (ii) advise the applicant not to submit his work: and the Faculty's decision shall be conveyed to the applicant.

(c) If it accepts the candidature and approves the subject or subjects of the work to be submitted the Faculty shall nominate examiners of whom one at least shall be an external examiner.

3. (a) To qualify for the degree the candidate shall furnish satisfactory evidence that he has made an original contribution of distinguished merit adding to the knowledge or understanding of any subject with which the Faculty is directly concerned.

(b) The degree shall be awarded primarily on a consideration of such of his published works as the candidate may submit for examination.

(c) The candidate in submitting his published works shall state generally in a preface and specifically in notes the main sources from which his information is derived and the extent to which he has availed himself of the work of others, especially where joint publications are concerned. He may also signify in general terms the portions of his work which he claims as original.

(d) The candidate is required to indicate what part, if any, of the work he has submitted for a degree in this or any other university.

4. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.

5. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Mathematical Sciences, be admitted to the degree of Doctor of Science in the Faculty of Mathematical Sciences.

6. Notwithstanding anything contained in the preceding regulations, the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to the knowledge or understanding of a subject with which the Faculty is directly concerned, of a standard not less than required by regulation 3.

Regulations allowed 28 February, 1974.
Amended: 15 Jan. 1976: 6.

FACULTY OF MEDICINE

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OF THE DEGREES OF

**BACHELOR OF MEDICINE AND
BACHELOR OF SURGERY**

REGULATIONS

1. (a) The course of study for the degrees of Bachelor of Medicine and Bachelor of Surgery shall extend over six years.

(b) A candidate may intermit the course for one year for the purpose of proceeding to the Honours degree of Bachelor of Medical Science. A candidate may seek the permission of the Faculty to intermit the course for such period and on such conditions as may in each case be determined by the Faculty.

2. To qualify for the degrees a candidate must attend regularly such tutorials and seminar work, satisfactorily perform such laboratory, practical, clinical and written work, and pass such examinations as the Council may from time to time prescribe.

3. Schedules defining the courses of study and practice to be undertaken, and the examinations to be passed, shall be submitted by the Faculty of Medicine to the Council and on approval by the Council shall be effective from the date of such approval or from such other date as the Council shall determine; and they shall be published in the next edition of the University Calendar issued after the Council has approved them.

4. Subject to the provisions of regulation 9(d) hereof, a candidate shall pass in the whole of one examination before entering upon the courses of study and practice leading to the next examination.

5. A candidate shall enter for each examination on the form and by the date prescribed by the Council, but shall not present himself for the examinations unless he has completed to the satisfaction of the professors and lecturers concerned, prior to the beginning of the examination, the courses of study and practice prescribed for it.

6. The examiners in any subject may take into consideration written or practical work required of candidates during the course of study and practice and the results of terminal or other examinations in the subject.

7. A candidate who fails to pass in an examination shall, before presenting himself for the examination again, attend again such part or parts of the course of study and practice leading to that examination as the Faculty may direct.

8. (a) The names of candidates who pass in the whole of an examination prescribed in the schedules shall be arranged in alphabetical order.

(b) The names of candidates who, having passed the whole or part of the first-year examination or the whole of any other examination prescribed in the schedules, are adjudged by the Board of Examiners as having reached the standard of Distinction or Credit in any component subject of that examination prescribed for the purpose in the schedules, shall in each such prescribed component subject be arranged in order of merit within the relative classification.

NOTES: (1) The reference to study and practice in regulations 3 to 7 above includes all that practical work and clinical instruction prescribed in schedule I.

(2) The Faculty of Medicine regards lectures as a valuable teaching method. Consequently candidates are advised to attend regularly such courses of lectures as may be provided.

(c) Except in the case of the First-Year Examination, a candidate who passes in an examination in any subject from part of which he has been granted exemption, shall not be classified at that examination.

(d) A candidate whose results in the Third-Year, Fourth-Year, Fifth-Year and Final (Sixth-Year) Examinations, in the medicine course have been adjudged by the Faculty of Medicine to have been of distinguished merit may, by the decision of the Faculty on the recommendation of the Board of Examiners in the final year of the course, be awarded the degrees of Bachelor of Medicine and Bachelor of Surgery (with Honours).

9. (a) The Board of Examiners may grant a candidate who has been prevented by illness or other sufficient cause from sitting for the whole or part of an examination permission to sit for a special or supplementary examination; the extent of such special or supplementary examination to be determined by the Board in each case.

(b) The Board of Examiners may grant a candidate who has failed in part only of an examination permission to sit for a supplementary examination in the subject or subjects in which he has failed.

(c) On passing in a special or supplementary examination granted under this regulation a candidate shall be deemed to have completed the whole of the examination; but if he fails in such special or supplementary examination he shall take again, and pass in, the whole of the examination before proceeding with the courses of study and practice leading to the next examination; provided that for the First-Year Examination the Board of Examiners may require a candidate to repeat only those subjects in which he has failed.

(d) A candidate granted permission to sit for a supplementary or special examination may enter provisionally upon the courses of study and practice leading to the next examination pending publication of the result of his supplementary examination.

10. A candidate who has passed subjects in other faculties or universities or elsewhere, may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

11. All regulations hitherto in force concerning the degrees of Bachelor of Medicine and Bachelor of Surgery are hereby repealed: provided that this repeal shall not affect

- (a) anything done or suffered under any regulation hereby repealed; or
- (b) any right or status acquired, duty imposed, or liability incurred by or under any regulation hereby repealed.

Regulations allowed 28 January, 1965.

Amended: 24 Dec. 1969: 2; 17 Dec. 1970: 8; 16 Dec. 1971: 9, 10; 21 Dec. 1972: 8; 23 Jan. 1975: 8, 9; 15 Jan. 1976: 3; 31 Jan. 1980: 1, 8.

OF THE DEGREES OF

BACHELOR OF MEDICINE AND BACHELOR OF SURGERY

SCHEDULES

(Made by the Council under regulation 3.)

NOTES: 1. The hospital clinical year usually begins on the fifth Monday in the year. 2. Syllabuses of subjects for the degrees of M.B., B.S. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: COURSES OF STUDY AND PRACTICE

1. Lectures, Practical Work, etc.

During the first year the student shall attend courses of lectures and practical work in (a) Anatomy, (b) Behavioural Science, (c) Biology, (d) Chemistry, and (e) Genetics.

During the second year the student shall attend courses of instruction in: (a) Anatomy—including Gross Anatomy, Histology and Embryology (and dissect during the whole academic year); (b) Biochemistry; (c) Human Physiology; (d) Medicine in the Community; (e) Medical Physics.

During the first two terms of the third year the student shall attend courses of instruction, including clinical demonstrations where required, in: (a) Anatomy including Neuroanatomy; (b) Physiology; (c) Pharmacology; (d) Pathology; (e) Microbiology; (f) Medicine in the Community.

During the third term of the third year and during the fourth year the student shall attend courses of topic instruction in Medicine, Surgery, Psychiatry, Microbiology, Pathology, Human Physiology, Pharmacology, Clinical Biochemistry, Applied Anatomy, Medicine in the Community and Public Health, as directed.

During the fifth year the student shall attend courses of instruction in: (a) Obstetrics and Gynaecology; (b) Medicine and Surgery; (c) Psychiatry; (d) Medical Paediatrics; (e) Surgical Paediatrics; and continue to attend demonstrations in Clinical Pathology; and attend Class Examinations as directed by the Faculty of Medicine.

During the sixth year a candidate shall attend as directed for instruction in: (a) Medicine; (b) Surgery; (c) Medical specialities; (d) Surgical specialities; (e) Obstetrics and Gynaecology; (f) Paediatrics; (g) Medicine in the Community; (h) Psychiatry; (i) Applied Pathology and Forensic Medicine; and undertake either a period of elective study approved by the Faculty of Medicine or if so directed by the Board of Examiners for the Fifth-Year Examination, undertake a revision course in one or more of Obstetrics and Gynaecology, Paediatrics, Psychiatry, Applied Pathology and Forensic Medicine, Medicine and Surgery.

2. Clinical Instruction

Clinical instruction will begin in the third term of the third year and extend to the end of the sixth year.

During this period the student shall:

- (a) attend the medical and surgical practice of the Royal Adelaide Hospital and/or the Queen Elizabeth Hospital for such period as may be directed, in the wards and in the outpatients department; and receive tutorial instruction in medicine and surgery as directed;
- (b) during the fifth year attend for 12 weeks, or such period as may be directed, the obstetrical and gynaecological practice of the Royal Adelaide Hospital or the Queen Elizabeth Hospital or the Queen Victoria Hospital in the wards and in the outpatients department; and reside for 6 weeks or such period as may be directed in the Queen Victoria Maternity Hospital or the Queen Elizabeth Hospital (maternity section) for clinical work in obstetrics;
- (c) hold for a total of at least 12 weeks during the fifth year, the office of medical clerk or surgical dresser at the Adelaide Children's Hospital; and during the sixth year attend the paediatric practice of that hospital for a further period of 4 weeks;
- (d) reside during the sixth year for at least 8 weeks in the Royal Adelaide Hospital and/or the Queen Elizabeth Hospital for clinical instruction in medicine and surgery;
- (e) reside during the sixth year for a period of 4 weeks in such hospital as may be directed for clinical instruction in obstetrics and gynaecology;
- (f) receive instruction during the sixth year in community medicine as directed, and attend, for such period as may be directed, the medical practices of general practitioners located in urban and regional areas;
- (g) attend a course of clinical instruction in psychiatry during the fifth and sixth years;
- (h) receive tutorial instruction as directed.

3. Approval of Enrolment

1. The following students must have their course of study approved by the Dean or his designated nominee at the time of enrolment in the year in question:

- (a) students previously enrolled in the course of studies prescribed in these schedules who did not enrol in that course in the immediately preceding year;
- (b) students who have been granted, or who are seeking exemption from the requirements of the regulations and schedules under the terms of regulation 10;
- (c) students who wish to enrol in any subject or subjects and/or unit or option within any subject, in addition to the course and subjects prescribed in these schedules;
- (d) students previously enrolled in other courses or in other faculties and who are enrolling, or who are seeking to enrol, for the first time in subjects prescribed in these schedules.

2. Students wishing to intermit their studies in accordance with the provisions of regulation 1(b) must apply through the Academic Registrar for permission and obtain beforehand the approval of the Dean on behalf of the Faculty for leave of absence for a defined period.

3. Students who have intermitted their studies in the prescribed subjects may be required to resume at such a point in the course and/or to undertake such additional or special programme of study as the Dean of the Faculty deems appropriate.

SCHEDULE II: EXAMINATIONS*

The examinations prescribed in accordance with regulation 3 shall be as follows and a candidate shall satisfy the examiners in each subject and half-subject and each other required component:

1. MX71 First-Year Examination

(to be held in or about November of the first year)

| | |
|--------------------------|---------------------|
| MA01 Anatomy I | SC71 Chemistry IM |
| MH71 Behavioural Science | SJ8H Genetics IH(M) |
| SZ61 Biology IM | |

A candidate who fails at the First-Year Examination will be required to repeat the course of instruction and present himself for re-examination only in the subjects or half-subjects in which he failed to satisfy the examiners.

The supplementary examinations (for candidates permitted under regulation 9 to present themselves therefor) will be held in or about the following February.

2. MX72 Second-Year Examination

(to be held in or about November of the second year)

| | |
|-------------------|--|
| MA02 Anatomy II | SS12 Human Physiology IIMB |
| SY72 Biochemistry | MU02 Medicine in the Community II |
| | SP7H Medical Physics [Commencing 1982] |

The supplementary examinations (for candidates permitted under regulation 9 to present themselves therefor) will be held in or about the following November.

3. MX73 Third-Year Examination

(to be held in or about August of the third year)

| | |
|-------------------------|------------------------------------|
| MA03 Anatomy III | SS13 Human Physiology IIIMB |
| MP03 Biology of Disease | MU03 Medicine in the Community III |
| | MR13 Pharmacology IIIMB |

The supplementary examinations (for candidates permitted under regulation 9 to present themselves therefor) will be held in or about the following November.

4. MX74 Fourth-Year Examination

(to be held in two parts, part I in or about the first week of May and part II in or about November of the fourth year.)

MX74 Fourth-Year Examination:

An integrated examination covering Pathology, Microbiology and Immunology, Applied Physiology, Pharmacology, Medicine and Surgery, Special Subjects (Otorhinolaryngology, Ophthalmology and Dermatology), and Psychiatry and Medicine in the Community relevant to Topic Teaching.

Any other examination held during the fourth year will not be taken into account when assessing the results for MX74 Fourth-Year Examination.

Topics for part I will usually be: Medicine in the Community and History Taking, Diseases with Infection, Alimentary, Cardiovascular, Respiratory and Renal Systems, and Haematology.

*For details of enrolment see Note at the end of this schedule.

Topics for part II will usually be: Revision of part I, Anaesthetics and Intensive Care, Endocrinology, Neurology, Medical and Surgical Diseases of Bones and Joints, Otorhinolaryngology, Ophthalmology, and Dermatology.

There will be three sections to part I and four sections to part II: Objective Written Test; Problem Solving Test; Practical Test; Clinical Vivas—including Special Subjects (part II only).

Supplementary or special examinations may be granted only under regulation 9(a) for the Fourth-Year Examination.

5. MX75 Fifth-Year Examination

(to be held in or about November of the fifth year).

MO75 Obstetrics and Gynaecology MC75 Paediatrics

A candidate's performance in Medicine, Surgery and Psychiatry will be taken into account in determining the results of the examinations.

A candidate who is granted a supplementary examination will normally be required to undertake a prescribed course of revision in lieu of undertaking a sixth-year elective. The supplementary examination will be taken immediately following that course.

6. MX76 Final (Sixth-Year) Examination

MX76 Final (Sixth-Year) Examination:

- (a) A multi-disciplinary examination in Medicine, Surgery, Obstetrics and Gynaecology, Psychiatry, Applied Pathology and Forensic Medicine, Medicine in the Community and Paediatrics (to be held in or about October and November of the sixth year).
- (b) Assessments of performance in the required clinical work.
- (c) *Viva voce* examinations as required (to be held in or about October and November of the sixth year).

Assessments of performance in the required clinical work that are considered satisfactory by the examiners must be received before a candidate's results of the Final (Sixth-Year) Examination may be published.

Supplementary examinations shall be taken in or about the following May.

Candidates granted supplementary examinations in any part of the Final (Sixth-Year) Examination will carry out such additional work as the Head/Chairman of the department may require.

7. Prescribed Component Subjects

The following are prescribed component subjects for the purpose of the award of classifications in accordance with the provisions of regulation 8(b):

First Year

MH71 Behavioural Science
SZ61 Biology IM
SC71 Chemistry IM
SJ8H Genetics IH(M)

Second Year

SY72 Biochemistry
 SS12 Human Physiology IIMB
 SP7H Medical Physics

Third Year

MA03 Anatomy III
 MU03 Medicine in the Community III

Fourth Year

SK74 Microbiology and Immunology component of MX74 Fourth-year Examination
 MP74 Pathology component of MX74 Fourth-year Examination
 MR74 Pharmacology IVMB (Pharmacology component of MX74 Fourth-year Examination).

Fifth-Year

MC75 Paediatrics
 MO75 Obstetrics and Gynaecology

Sixth Year

MM76 Medicine component of MX76 Final (Sixth-year) Examination
 MS76 Surgery component of MX76 Final (Sixth-year) Examination
 MH76 Psychiatry component of MX76 Final (Sixth-year) Examination

NOTE (not forming part of the schedules).

ENROLMENT

Candidates for the degrees of M.B., B.S. are required to enrol for the following subjects:

First Year

| | |
|-----------------------------|---------------------|
| MX71 First-Year Examination | SZ61 Biology IM |
| MA01 Anatomy I | SC71 Chemistry IM |
| MH71 Behavioural Science | SJ8H Genetics IH(M) |

Second Year

| | |
|------------------------------|--|
| MX72 Second-Year Examination | SS12 Human Physiology IIMB |
| MA02 Anatomy II | MM02 Medicine in the Community II |
| SY72 Biochemistry | SP7H Medical Physics [Commencing 1982] |

Third Year

| | |
|-----------------------------|------------------------------------|
| MX73 Third-Year Examination | SS13 Human Physiology IIIMB |
| MA03 Anatomy III | MU03 Medicine in the Community III |
| MP03 Biology of Disease | MR13 Pharmacology IIIMB |

Fourth Year

| | |
|----------------------------------|------------------------|
| MX74 Fourth-Year Examination | MP74 Pathology |
| SK74 Microbiology and Immunology | MR74 Pharmacology IVMB |

Fifth Year

| | |
|-----------------------------|---------------------------------|
| MX75 Fifth-Year Examination | MO75 Obstetrics and Gynaecology |
| MC75 Paediatrics | |

Sixth Year

| | |
|-----------------------------|-----------------|
| MX76 Sixth-Year Examination | MH76 Psychiatry |
| MM76 Medicine | MS76 Surgery |

Details of Hospitals residence charges may be found under 4. Fees and Charges in 'Information for Students of the University' at the front of this volume.

RULES FOR THE ADMISSION OF MEDICAL STUDENTS TO THE PRACTICE OF THE TEACHING HOSPITALS, HEALTH CENTRES AND THE INSTITUTE OF MEDICAL AND VETERINARY SCIENCE

1. Medical students admitted to the practice of a Teaching Hospital or Health Centre shall be under the control of the Medical Superintendent* in relation to matters of common discipline; the University will otherwise be responsible for matters related to education.
2. No student shall publish the report of any case without the permission of the Hospital Board or Health Centre Management Committee and the Senior Medical Officer under whose care the patient is or has been.
3. Except in the performance of his clinical duties, no student may disclose any information whatsoever concerning a patient without the permission of both the patient and the Senior Medical Officer in charge.
4. No student may communicate directly or indirectly to the Press, radio or television any matter concerning the clinical practice of the Institution to which he is attached.
5. No student may introduce visitors into any Hospital or Health Centre to the practice of which he has been admitted, without the permission of the Medical Superintendent* or his deputy.
6. Students shall pay such fees as are laid down from time to time by the University in conjunction with the Teaching Hospitals or Health Centres. Fees are payable directly to the University; no student will be admitted to a Teaching Hospital or Health Centre until such fees are paid.
7. Students shall discharge the duties assigned to them, and pay for or replace any article damaged or lost or destroyed by them through negligence or misconduct.
8. During any period of residence the student will comply with the directions of the Medical Superintendent* of the Hospital or Health Centre in respect of discipline and general conduct.
9. Subject to rule 10 any student infringing any of these rules or the rules of the Hospital or Health Centre, or otherwise misconducting himself may be suspended or dismissed by the Board of the Hospital or Health Centre from the practice of the Hospital or Health Centre. If he is so dismissed he shall forfeit all payments which may have been made and all rights accruing therefrom.
10. In all instances where a student has been either suspended or dismissed from the practice of the Hospital or Health Centre his case shall be investigated by an Investigation Committee on which there shall be a representative appointed by the Hospital Board, a Senior Consultant Clinical Teacher nominated by the Chairman (or his deputy) of the appropriate Staff Committee of the Hospital or Health Centre concerned, a representative appointed by the University, and the Dean of the Faculty of Medicine (or his deputy). The Committee should also normally include a representative of the Adelaide Medical Students' Society (e.g. a student member of the Faculty of Medicine). The Investigating Committee shall make its recommendation to the Board of the Hospital or Health Centre Management Committee concerned and to the Council of the University for confirmation or otherwise.
11. These rules apply equally to medical students who use the facilities of the I.M.V.S. where the Director of the Institute has the authority given in these Rules to the Medical Superintendent of a Teaching Hospital, and where the Council of the Institute replaces the Board of the hospital.

*The Medical Director of the Queen Victoria Hospital and Health Centres.

OF THE DEGREES OF

**BACHELOR OF MEDICINE AND
BACHELOR OF SURGERY**

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

FIRST-YEAR EXAMINATION

MX71 First-Year Examination (M.B., B.S.).

MA01 Anatomy I.

The course consists of $3\frac{1}{2}$ hours of classes a week. Approximately half of the time is lectures and half is practical classes. It covers introductory gross anatomy, cytology, general histology and the regional anatomy of the lower limb.

Text-books: To be announced.

Equipment: A human half-skeleton, dissecting instruments, laboratory coats. Although the Department will be able to provide enough microscopes for use during class times, students are encouraged to purchase a microscope of their own as they will require one for classes in subsequent years.

MH71 Behavioural Science.

The course consists of three lectures, one tutorial, and one three-hour practical class, a week.

The course deals with scientific approaches to the understanding of human behaviour in health and disease. With this objective, contributions from developmental psychology, psychophysiology, social psychology, sociology, and anthropology are studied.

Text-books:

Winefield, H. R., and Peay, M. Y., *Behavioural science in medicine* (Allen and Unwin).

Simons, R. C. and Pardes, H. (eds.) *Understanding human behaviour in health and illness* (Williams and Wilkins).

SZ61 Biology IM.

A course consisting of two lectures, one tutorial and approximately four hours of practical work each week throughout the year. Both day and evening classes will be held.

The course includes: elementary biochemistry, cell structure and physiology, an introduction to bacteria fungi and autotrophs, structure and physiology of vertebrate and invertebrate animals, the mechanisms of evolution and the principles of ecology.

Text-book:

Curtis, H., *Biology*, 3rd edition (Worth).

SC71 Chemistry IM.

There will be three lectures and a one hour tutorial class each week throughout the year. Practical classes of three hours a week will be held during the year at times to be notified.

This chemistry course is designed to meet the specific needs of students enrolled in the Faculty of Medicine. Principles are illustrated with biological and medical examples.

A. STRUCTURE, BONDING AND INORGANIC CHEMISTRY.

Atomic structure. Periodic relationships. Chemical bonding concepts developed to a level for understanding structures and reactions considered elsewhere in the course. Solid state structures and crystal chemistry: ionic, molecular, and metallic substances. Occurrence and roles of metals in biological systems. The structures of biological molecules, metal complexes, metalloenzymes, and haem-type complexes.

B. ENERGETICS AND CHEMICAL EQUILIBRIA.

Equilibria in aqueous solutions: concepts of free energy, enthalpy and entropy; buffers; metal-complex formation. Electrochemical phenomena: electrode potentials; glass electrode; specific ion electrodes. Interfacial phenomena: interfaces and adsorption; monolayers; electrical double-layers; membranes; osmotic phenomena; Donnan equilibrium; hydrophilic colloids. Drug absorption. Anaesthesia.

C. RATE PROCESSES.

The concepts of reaction rates, rate laws, mechanisms; effect of temperature on reaction rates; diffusion as a rate-determining process. Pharmacokinetics.

D. ORGANIC CHEMISTRY.

The lecture course in Organic Chemistry will be devoted to a discussion of the occurrence, preparation and properties, both physical and chemical, of the major families of organic compounds, *viz.* alkanes, alkenes, alkynes, alcohols, alkyl halides, aldehydes, ketones, acids, esters, amines, aromatic compounds, heterocyclic compounds, amino acids, proteins, and carbohydrates.

Representative examples will be included of compounds of medicinal and biological importance.

Other topics will include the following: stereochemistry, separation techniques, spectroscopy, polymers, and bio-organic chemistry.

Text-books:

Lippincott, W. T., and others, *Chemistry: a study of matter*, 3rd edition (Wiley International Student Edition).

Chang, R., *Physical chemistry with applications to biological systems* (Collier-Macmillan).

Brown, W. H., *Introduction to organic chemistry*, 2nd edition (Wadsworth International Student Edition) (Wise Grant Press).

SJ8H Genetics IH(M).

There will be one lecture and a tutorial/practical class each week throughout the year.

This course outlines the principles of human genetics as an introduction to individual variation which is part of the background to the practice of medicine and dentistry. Practical sessions and exercises will give students the opportunity to analyse data of normal and pathological human variation so as to encourage a critical approach to genetical and medical problems.

Scientific method. Mendelian genetics in human families. Application of statistical tests to genetic data. Cytogenetics. Biochemical and population genetics including an introduction to metabolic errors, haemoglobin variants, blood groups and tissue compatibility. Inbreeding. Genetic studies of twins. Mutation and radiation hazards. Selection and genetic polymorphism in man. Genetics of quantitative variables. Role of genetic factors in the production of congenital anomalies and some adult diseases. Genetic counselling.

Text-books:

Thompson, J. S., and Thompson, M. W., *Genetics in medicine*, 3rd edition (Saunders).

SP7H Medical Physics.

This subject (previously SP7H Physics IH(M)) which was offered to both medical and dental students in the first year of their courses will be offered in 1981 to dental students in the first year of their course and in 1982 to medical students in the second year of their course.

The syllabus may be found below under "Second-Year Examination".

Bio-medical Statistics.

This programme consists of 10 contact hours in term I. It provides an introductory coverage of the following topics: the role of statistics in human biology and medicine, the collection and presentation of data, measures of central tendency and variation, statistical inference, the concepts of probability and correlation, and sampling.

Emergency Medicine.

This programme consists of 10 contact hours in term II. The topics covered include: basic life support; abdominal, cardiac, drug related, neurological, obstetric, psychiatric, respiratory and miscellaneous emergencies; trauma, and head injuries.

SECOND-YEAR EXAMINATION.

MX72 Second-Year Examination (M.B., B.S.).

In the second year a co-ordinated course in human biology comprises MA02 Anatomy II, SY72 Biochemistry and SS12 Human Physiology IIMB. Also included in the second-year course is MU02 Medicine in the Community II and SP7H Medical Physics. Students are required to enrol for all these subjects at the beginning of second year.

MA02 Anatomy II.

This course includes the following:

INTRODUCTORY ANATOMY:

One lecture per week during first term. The course covers the general anatomy of the musculoskeletal, nervous and vascular systems.

GROSS ANATOMY:

40 lectures and 54 hours of tutorial-demonstrations and practical work on the lower limb and trunk extend over three terms. Functional and clinical aspects of anatomy are emphasised. Students dissect part of the body; prosected specimens are provided also.

Equipment:

A human half-skeleton, dissecting instruments, laboratory coats.

Text-books:

Grant, J. C. B., *Method of anatomy*, 9th edition, ed. J. V. Basmajian (Williams and Wilkins).

Sauerland, E., *Grant's dissector*, 8th edition (Williams and Wilkins).

Atlas (optional):

Clemente, C. D., *Anatomy. A regional atlas of the human body* (Urban and Schwarzenberg); OR

McMinn, R. M. H., and Hutchings, R. T., *A colour atlas of human anatomy* (Wolfe).

HISTOLOGY AND CYTOLOGY:

About 40 hours each of lectures and practical classes on general cytology and the microscopic structure of the tissues, organs and systems of the body. The course relates structural features to function.

Equipment:

An approved microscope. [Information is available from the Department.]

Text-book:

Junqueira, L. C., and others, *Basic histology*, 3rd edition (Lange).

Atlas (optional):

Bergman, R. A., and Afifi, A. K., *Atlas of microscopic anatomy. A companion to histology and neuroanatomy* (Saunders); OR

Reith, E. J., and Ross, M. H., *Atlas of descriptive histology*, 3rd edition (Harper); OR

Fiore, M. S. H. di, *Atlas of human histology* (Lea and Febiger).

EMBRYOLOGY:

The 27 lectures cover both pre- and post-natal stages of normal human growth and development, and extend into related topics such as control of development, experimental embryology, congenital anomalies and teratogenesis.

Text-book:

Moore, K. L., *The developing human*, 2nd edition (Saunders).

SY72 Biochemistry.

Lectures and a series of Medical Laboratory Units which combine audio-visual tutorial work, reading and practical exercises. The course is designed to cover basic biochemistry but its clinical relevance is given.

Work in biochemistry will be completed in the second year of the medical course.

The course will include aspects of protein structure and function, metabolism of carbohydrates, lipids and amino acids; porphyrin metabolism, hormone action and metabolic control; biological membranes; vision; nucleic acid and protein synthesis; mutation, control of gene expression, eukaryote chromosomes, immunoglobulins, molecular basis of antibiotic action, nature of antibiotic resistance; nature of viral diseases, biochemistry of cancer.

The Medical Laboratory Units reinforce and extend the lectures.

Text-books:

Stryer, L., *Biochemistry* (Freeman).

Montgomery, R., and others, *Biochemistry: A case oriented approach*, 2nd edition (Mosby).

SS12 Human Physiology IIMB.

Throughout each week of the three terms in second year students attend three one-hour lectures, a one-hour tutorial and a three-hour practical session. The course is concerned with aspects of both general and systematic physiology.

Text-books:

Ross, G., *Essentials of human physiology* (Year Book Medical Publishers).

Selkurt, E. E., *Physiology*, 4th edition (Little, Brown).

MU02 Medicine in the Community II.

The main activity in first term is a course concerning "Relationships in Community Health". In this programme, conducted by the Foundation for Multidisciplinary Education in Community Health, students from Second Year medicine join with students from social work, nursing, physiotherapy and occupational therapy and together look at the relationship between them and their patients or clients (an introduction to counselling), the relationships they will have with other professionals (introducing concepts of teamwork and differences in roles), and the relationships they will have with people in general (considering the health education aspect of being a health care person). The students work in small groups of 8 or 9. Short talks and field visits act as triggers for discussion within the groups—each of which will produce a brief report of the term's work. These discussions are supported by printed material especially prepared for this programme.

The first term programme also includes an all day seminar and some introductory lectures which lead into the second and third term lectures and tutorials in epidemiology and social and economic analysis of medicine in the community.

The epidemiology course aims to familiarise students with statistical methods of studying patterns and processes of disease within populations and to undertake a detailed examination of the epidemiology of a number of diseases. Practical sessions introduce computer methods for dealing with community health data.

The course in social analysis begins with an exploration of the way in which knowledge about society is acquired and evidence is evaluated. The social diversity of understandings of health and medicine is explored and some of the implications of that diversity, for both practitioners and lay people, are explored. Economists' techniques for analysing the costs and benefits of various arrangements of health care are also discussed.

Tutorials in the third term introduce an elective component in which weekly readings and discussions centre upon one particular aspect of the organisation or provision of health care to the community.

Assessment is continuous in tutorial, project work and 24-hour essay assignments.

Text-books:

Barker, D. J. P., and Rose, G., *Epidemiology in medical practice* (Churchill Livingstone).

Freidson, E., *Professional dominance* (Aldine).

Fuchs, V., *Who shall live?* (Basic Books).

Klecka, W. R., and others, *SPSS Primer* (McGraw-Hill).

Plus: Reading list in Sixth Year course.

SP7H Medical Physics.

(To be offered in 1981 to dental students in the first year of their course and in 1982 to medical students in the second year of their course.)

This is a course in bio-physics for medical and dental students. It seeks to show that an application of basic physical laws and theories to physiological and biological systems can help in understanding their structure and function.

Important parts of the course also deal with radiation including X-rays and nuclear medicine, ultra sound and instrumentation. The course aims to bridge the gap between matriculation physics and the medical and dental subjects. Therefore, students who have not taken matriculation physics will need to do extra work to cope with the lectures. These students are advised to consult the lecturer as early as possible. In the teaching of this subject an endeavour will be made to interact where possible with second year medical and dental physiology.

Text-book:

Cameron, J. R., and Skofronick, J. G., *Medical Physics* (Wiley).

THIRD-YEAR EXAMINATION.

MX73 Third-Year Examination (M.B., B.S.).

In the third year a co-ordinated course in advanced human biology comprises MA03 Anatomy III, SS13 Human Physiology IIIMB and MR13 Pharmacology IIIMB. Also included in the third-year course are MP03 Biology of Disease comprising Microbiology and General Pathology and MU03 Medicine in the Community III. Students are required to enrol for all these subjects at the beginning of third year.

MA03 Anatomy III.

GROSS ANATOMY AND EMBRYOLOGY:

36 lectures and 54 hours of tutorial-demonstrations and practical work on the head and neck and upper limb extend over the first two terms. Functional and clinical aspects are emphasised. Students dissect these regions; prosected specimens and models are provided for some structures.

Equipment and text-books:

As for GROSS ANATOMY and EMBRYOLOGY in MA02.

NEUROBIOLOGY:

This course is closely co-ordinated with the course in neurophysiology given in the first term. About 25 lectures and 36 hours of demonstrations and practical work (including brain dissection and study of prepared sections) relate structure to function in the nervous system. (Clinical demonstrations are included.)

Text-book:

Noback, C. R., and Demarest, R. J., *The human nervous system: basic principles of neurobiology*, 2nd edition, 1975 (McGraw-Hill).

MP03 Biology of Disease.

An introductory course in Microbiology and General Pathology. Details are given below under Fourth-Year Examination.

SS13 Human Physiology IIMB.

The course is comprised of three one-hour lectures and one three-hour practical session in each week of the first term of third year; the course is devoted to integrative aspects of systematic physiology.

Text-books:

As for SS12 Human Physiology IIMB.

MU03 Medicine in the Community III.

In terms 1 and 2 of the third year courses are conducted in the process and practice of preventing illness in relation to lifestyle, the environment, growth and development. Field visits to community resources, including general practice are arranged.

Assessment is continuous in tutorial, project work and 24-hour essay assignments.

Text-books:

Diesendorf, M., *The magic bullet* (S.S.R.S., Canberra).

Hetzel, B. S., *Health and Australian society* (Pelican).

Selected tutorial readings (Dept. Handbook).

MR13 Pharmacology IIMB

A course in Term 2, comprising 27 lectures, 9 lecture/demonstrations and 24 hours practical. The course covers the basic principles of drug action, uses of drugs, and includes a discussion of the factors which determine the duration, intensity and variability of drug effect.

Text-books:

Goodman, L. S. and Gilman, A. *The pharmacological basis of therapeutics*, current edition (Macmillan).

Avery, G. S. *Drug treatment*, 2nd edition (ADIS Press).

FOURTH-YEAR EXAMINATION.

MX74 Fourth-Year Examination (M.B., B.S.).

SK74 Microbiology and Immunology.

Bacteria of medical importance: their isolation, morphology, physiology and classification. The principles of sterilisation and disinfection, the use of antibiotics and chemotherapeutic agents. The role of micro-organisms in human disease, considered as a study of host-parasite relationships; epidemiology and its relation to hospital cross-infections. An outline of human virus infections. The collection of specimens for bacteriological and viral diagnosis.

The principles of immunology as applied to the diagnosis, prophylaxis and therapy of bacterial and virus diseases, transplantation, diseases due to allergy or hypersensitivity and autoimmune disease.

In the first and second terms of the third year, introductory lectures and a practical course using basic laboratory techniques are given. In the following four terms there are seminars on selected clinical topics related to Topic Teaching concerning infectious diseases and immunological problems, including visits to the Children's Hospital and the Northfield Wards of the Royal Adelaide Hospital. Students are expected to take an active part in these clinical presentations.

At all stages the course is related, whenever possible, to clinical material.

Text-books:

A list of text-books will be issued by the department at the beginning of each year.

MP74 Pathology.

The course in Pathology extends over the third and fourth years. In the first and second terms of the third year of the medical course the general principles of pathology are presented as part of the course in MP03 Biology of Disease. The nature and causes of disease are first considered, and then follows a full consideration of the inflammatory reaction, including tissue regeneration and repair. Other topics are thrombosis, embolism and infarction, cellular changes and degenerations, the biological effects of radiant energy, the fundamentals of the neoplastic process, malformations, chromosomal abnormalities, haemorrhage, shock and oedema.

The pathology component of course MP03 Biology of Disease comprises lectures, practical classes, tutorials, and regular demonstrations of illustrative selected specimens in the hospital mortuary. The museum of gross pathology is also available for study.

Commencing in the third term of the third year of the medical course applied (systematic) pathology is studied, as part of an integrated multi-disciplinary programme of instruction on selected topics: The naked-eye and microscopic changes in diseased organs and tissues are considered, and the morbid physiology of disease is also discussed. The course comprises lectures, weekly tutorials, mortuary demonstrations of selected material, clinico-pathological demonstrations, and attendance at necropsies in the mortuary of the Royal Adelaide Hospital.

Necropsies are held daily when material is available, and students are advised to attend as many as possible.

Text-book:

For general pathology:

Walter, J. B. and others, *Principles of pathology for dental students*, 3rd edition (Churchill).

For special pathology:

Robbins, S. L., and Angell, M., *Basic pathology*, 2nd edition (Saunders).

MR14 Pharmacology IVMB.

Lectures in Clinical Pharmacology are given through four consecutive terms, beginning with the third term in third year and extending through the fourth year of the study course. The lectures are integrated with topic teaching, and deal with applied aspects of pharmacology and therapeutics which relate to each special area covered in the programme.

Text-books:

As for third year.

Applied Physiology.

The course extends through four consecutive terms beginning with the third term in the third year of medical studies, and is integrated with topic teaching. The subject-matter will be the application of important principles of physiology to medicine and surgery.

Text-books:

As for SS12 Human Physiology IIMB.

Clinical Anatomy.

Occasional lectures are integrated with topic teaching. The subject matter is the application of important principles of anatomy to medicine, surgery and radiology.

Medicine and Surgery.

A course of tutorials, lectures and clinical instruction on the medical and surgical aspects of diseases. The course is part of the topic teaching programme which provides integrated multidisciplinary teaching in community medicine, public health, history taking, diseases of the alimentary tract, cardiovascular system, respiratory system, infection, endocrine disorders, metabolic abnormalities, urinary tract diseases, diseases of bones and joints, diseases of the blood, neurological disorders, diseases of the eyes, skin, ears, nose and throat, and anaesthesia and resuscitation. The psychological aspects of disease will be discussed where relevant.

The course, commencing in the third term of the third year and continuing throughout the fourth year, is designed to give students a balanced introduction to clinical science and to integrate the medical sciences with clinical medicine. For recommended text-books see under MX76 Final (Sixth-Year) Examination.

Community Medicine.

Preventive and epidemiological aspects of disease are presented and discussed where appropriate throughout the year. Lectures, tutorials and clinical teaching are provided on the preventive, primary and community care aspects of topics under consideration. For text-books see under MX76 Final (Sixth-Year) Examination.

Psychiatry.

The course in Psychiatry which commences with the course in Behavioural Science in the first year is designed to help the student acquire the knowledge and skills necessary for the evaluation of psychological and sociological factors and the integration of these with biological factors in all forms of illness.

In the third and fourth years a short course of lectures is given covering the following topics: stress and coping, anxiety, depression, memory and pain. The principles of clinical interviewing are taught and psychosocial aspects of disease are presented and discussed where appropriate throughout the course.

For text-books see under MX76 Final (Sixth Year) Examination.

FIFTH-YEAR EXAMINATION.

MX75 Fifth-Year Examination (M.B., B.S.).

MO75 Obstetrics and Gynaecology.

A course of lectures in obstetrics and gynaecology is given during the fifth year. Students are rostered to the Queen Elizabeth Hospital or the Queen Victoria Hospital and the Royal Adelaide Hospital for one clinical term. During this time both obstetrics and gynaecological clinical attachments are performed and students are resident for six weeks.

Tutorials in practical obstetrics, endocrinology and gynaecological pathology are given during term.

Seminars are conducted in which social, psychological and psychosomatic aspects of human reproduction and sexuality are discussed.

Text-books:

Beischer, N. A., and Mackay, E. V., *Obstetrics and the newborn* (Saunders).

Jeffcoate, T. N. A., *Principles of gynaecology*, 4th edition (Butterworth).

Llewellyn-Jones, D., *Fundamentals of obstetrics and gynaecology*, vol. 1: Obstetrics, vol. 2: Gynaecology (Faber).

Peel, J., and Potts, M., *Textbook of contraceptive practice* (C.U.P.).

Dennerstein, L., and others, *Gynaecology, sex and psyche* (Melbourne U.P.).

MC75 Paediatrics.

MEDICAL DISEASES OF CHILDREN:

Lectures, tutorials, and clinical instruction in the general problems of paediatrics, including the newborn.

General introductory text-book:

Maxwell, G. M., *Principles of paediatrics* (Queensland U.P.).

SURGICAL DISEASES OF CHILDREN:

Lecture-demonstrations on surgical diseases of children given at the Adelaide Children's Hospital.

Medicine.

Fifth-year students spend six weeks in the University Departments of Medicine and Surgery at either the Royal Adelaide Hospital or the Queen Elizabeth Hospital. The course is designed to analyse the whole diagnostic and clinical approach to the patient. Students are concerned with the problems of individual patients under the direct supervision of a preceptor from the Department.

For text-books see under MX76 Final (Sixth Year) Examination.

Surgery.

Fifth-year students spend six weeks in the University Departments of Surgery and Medicine at either the Royal Adelaide Hospital or the Queen Elizabeth Hospital in a course designed to analyse the whole diagnostic process, including special diagnostic procedures.

For text-books see under MX76 Final (Sixth Year) Examination.

Psychiatry.

In the fifth year students are assigned to psychiatric units in general hospitals for clinical clerking, the detailed study of the patient and his family and an over-view of the field of general psychiatry.

For text-books see under MX76 Final (Sixth Year) Examination.

FINAL (SIXTH-YEAR) EXAMINATION.

MX76 Final (Sixth-Year) Examination (M.B., B.S.).

MM76 Medicine.

The sixth year of the course is provided to allow for the study and care of patients under the supervision of the University Department of Medicine and the Clinical Teachers of the University at both hospitals. Students will spend four weeks in General Medicine in the capacity of Student Interns at the teaching hospitals. Normally a student will be required to be in residence at the hospital to enable himself to maintain continuity of patient care. There will also be a period of four weeks devoted to Medical Specialties. There will be a minimum of formal teaching. In addition the new curriculum provides an eight week elective period at the beginning of the year.

The following books are recommended throughout the three years' instruction in Medicine. Students should purchase copies of text-books. Many students also find it valuable to have a personal copy of a general reference book. A list of special reference books will be made available at the beginning of the year.

Text-books:

- Macleod, J. G. (ed.), *Davidson's principles and practices of medicine* (Livingstone).
Macleod, J. G. (ed.), *Clinical examination* (Churchill-Livingstone).

MS76 Surgery.

In the sixth year each student is attached for four weeks to a general surgical clinic. During this period he is given duties which will involve him directly in patient-care, as the most junior member of the surgical team. Normally, he will be required to be in residence at the hospital to enable him to maintain continuity of patient-contact. There will be a minimum of formal teaching. For a further period of four weeks each student will attend for instruction in a surgical specialty.

Text-books and equipment:

The Department of Surgery issues to all fourth, fifth and sixth-year students towards the end of each year a booklet describing the course in more detail, and giving detailed advice to students about the choice of text and reference books, and of equipment.

MH76 Psychiatry.

In the sixth year students will be assigned to Psychiatric treatment settings, where they will develop knowledge of assessment techniques and the management of a wide variety of disorders in adult and child psychiatry. Students are required to submit an essay on a psychiatric topic of their choice. A list of possible subjects is provided for guidance.

Text-books:

- Gregory, I., and Smeltzer, D. J., *Psychiatry: Essentials of clinical practice* (Little, Brown).
Kolb, L. C., *Modern clinical psychiatry* (Saunders).

Community Medicine.

A course in community practice is designed to provide students with practical learning in illness behaviour, epidemiology of disease and the organisation and evaluation of medical care in the community. This should provide the student with skills to help people in the community to cope with their most common health problems individually and collectively. Particular emphasis is given to the role of the general practitioner as a health educator and counsellor.

A four-week externship programme includes field placements in metropolitan and country general practice, visits to community care resources and evaluation of these learning experiences in tutorials and seminar settings. The course includes a one week seminar at a health centre in the city involving recent graduates from other disciplines in health care, during which issues concerning teamwork and communications in the provision of health care and education to the community are explored, and a day-long seminar in a hospital in a country town. A short training course in public health is also provided.

Student evaluation includes both group and individual study assignments and a running assessment of the clinical clerkship in general practice and vivas in public health and patient management of problems common to community practice.

Text-books:

- Barker, D. J. P., and Rose, G. A., *Epidemiology in medical practice* (Churchill Livingstone).
Hodgkin, K., *Towards earlier diagnosis: a guide to general practice*, 4th edition (Churchill Livingstone).
The Australian morbidity survey (Med. J. Aust. Supplement, October 1976).
Disendorf, M., *The magic bullet* (S.S.R.S., Canberra).
Gordon, D., *Health, sickness and society* (Queensland U.P.).

A set of important reprints and articles on matters of community medicine interest is kept in the Department of Community Medicine.

Obstetrics and Gynaecology.

Each student will reside in an obstetric hospital for four weeks for a student internship. During this time he will be attached to the practice of a visiting obstetrician and gynaecologist.

Paediatrics.

During the sixth year each student will be attached to the practice of a paediatric unit and may be required to reside in a hospital for a period of four weeks as a student intern.

Applied Pathology and Forensic Medicine.

This course organised by the Department of Pathology comprises a series of combined presentations by pathologists and clinicians and is orientated towards relating clinical features to laboratory findings in selected diseases. There is also a series of lectures dealing with selected topics in forensic medicine and pathology.

Medical Ethics.

A short course of lectures on the ethics of the profession.

The relationship of practitioners to one another, to patients, nurses, chemists, friendly societies, the public, advertising, hospitals, the law courts, and the State.

**ADDITIONAL SUBJECTS TAUGHT BY DEPARTMENTS OF THE
FACULTY OF MEDICINE.**

MA13 Anatomy and Histology III (B.Sc.).

MA79 Honours Anatomy and Histology (B.Sc.).

MA71 Introductory Anatomy and Histology (B.D.S.).

MA72 General Anatomy (B.D.S.).

MA82 General and Dental Histology (B.D.S.).

MM04 General Medicine (B.D.S.).

MS04 General Surgery (B.D.S.).

MP73 General Pathology (B.D.S.).

MA89 Honours Anatomy and Histology (B.Sc.Dent.).

MP89 Honours Pathology (B.Sc.Dent.).

MR23 Pharmacology IIID (B.D.S.).

MR43 Pharmacology III (B.Sc.).

MR53 Pharmacology IIIM (B.Sc.).

MR89 Honours Pharmacology (B.Sc.).

MR79 Honours Pharmacology (B.Med.Sc.).

MR49 Honours Pharmacology (B.Sc.Dent.).

MA51 and MA52; MA61 and MA62.

These subjects are provided for students enrolled at the South Australian Institute of Technology in the courses for the Bachelor of Applied Science in Physiotherapy and the Bachelor of Applied Science in Occupational Therapy.

MA51 Anatomy I(O.T.).

This course, for students of Occupational Therapy, consists of three parts:

INTRODUCTORY ANATOMY:

A course of two lectures a week in the first term, dealing with the general anatomy of musculoskeletal, nervous and vascular systems, and basic histology.

Preliminary reading (particularly for students with little background in biology):

Barnett, C. H., and others, *The Human body* (English U.P.).

GROSS ANATOMY:

A flexible arrangement of approximately two lectures and two hours of demonstration-tutorial instruction a week throughout the year. The course deals with the anatomy of the whole body, but emphasises musculoskeletal and nervous structures and their functional application in activities of everyday living, and stresses particularly the upper limb.

Equipment:

Students will need a laboratory coat, and will find a human half-skeleton, particularly the limbs, an advantage.

Text-book:

Basmajian, J. V., *Primary anatomy*, 7th edition (Williams and Wilkins).

EMBRYOLOGY:

This part of the course is shared with Physiotherapy students. Refer to the syllabus and text-books for MA61 Anatomy I(P), Embryology section.

MA52 Anatomy II(O.T.).

This is a course in Neurobiology, shared with Physiotherapy students. Refer to the syllabus and text-books for MA62 Anatomy II(P), Neurobiology section.

MA61 Anatomy I(P).

The course, for students of Physiotherapy, consists of three parts:

INTRODUCTORY ANATOMY:

Two lectures per week in first term, dealing with the general anatomy of the musculo-skeletal, nervous and vascular systems.

Preliminary reading (particularly for students with little background in biology):

Barnett, C. H., and others, *The human body* (English U.P.).

GROSS ANATOMY:

2 lectures a week on the gross anatomy of the extremities and trunk, given throughout the year. Functional aspects of anatomy are emphasised.

3 hours of practical work a week includes dissections of the extremities and trunk. Tutorial-demonstrations are held in conjunction with dissections. Prosected specimens of some regions are used as demonstration material.

Equipment:

A human half-skeleton, dissecting instruments, and laboratory coats.

Text-books:

Grant, J. C. B., *Method of anatomy*, 9th edition, ed. by J. V. Basmajian (Williams and Wilkins).

Cunningham, D. J., *Manual of practical anatomy*, vols. 1 and 2 (O.U.P.).

Atlas (optional):

McMinn, R. M. H., and Hutchings, R. T., *A colour atlas of human anatomy* (Wolfe); OR

Clemente, D., *Anatomy. A regional atlas of the human body* (Urban and Schwarzenberg).

EMBRYOLOGY:

A course of 27 lectures on embryology (including the development of the nervous system) given in the second and third terms.

Text-book:

Moore, K. L., *Before we are born* (Saunders).

MA62 Anatomy II(P).**GROSS ANATOMY:**

36 lectures on the gross anatomy of the head and neck, the vertebral column, and on special topics, given in the first two terms. Functional aspects of anatomy are emphasised.

54 hours of practical work in the form of dissections of the head neck, the vertebral column and the central nervous system. Tutorial-demonstrations are held in conjunction with dissections. Prosected specimens of some regions are used as demonstration material.

Equipment:

See MA61.

Text-books:

Cunningham, D. J., *Manual of practical anatomy*, vol. 3 (O.U.P.).

Grant, J. C. B., *Method of anatomy*, 9th edition, ed. by J. V. Basmajian (Williams and Wilkins).

Atlas (optional):

See MA61.

NEUROBIOLOGY:

A course of about 18 lectures and 9 hours of dissection, dealing with the functional anatomy of the central nervous system and emphasising topics of clinical significance.

Text-book:

Noback, C. R., and Demarest, R. J., *The nervous system: introduction and review* (McGraw-Hill).

OF THE HONOURS DEGREE OF
BACHELOR OF MEDICAL SCIENCE
REGULATIONS

1. There shall be an Honours degree of Bachelor of Medical Science.
2. To qualify for the degree a candidate shall undertake a course of advanced study extending over at least one academic year, and shall satisfy the examiners in one of the subjects prescribed in the schedules.
3. Before admission to a course of study for the degree a candidate shall have:
 - (a) passed the Third-Year Examination for the degrees of Bachelor of Medicine and Bachelor of Surgery;
 - (b) been accepted by the Chairman of the department concerned as a suitable candidate for advanced work in the subject he wishes to pursue; and
 - (c) completed such pre-requisite work as the Chairman of the department concerned may prescribe.
4. The names of the candidates who qualify for the degree shall be published in alphabetical order within the following classes and divisions in each subject:
 - First Class
 - Second Class
 - Division A
 - Division B
 - Third Class.
5. A candidate shall enter for examination on the form and by the date prescribed by the Council, but shall not be eligible to present himself for examination unless he has regularly attended the prescribed lectures and has done written and laboratory or other practical work, where required, to the satisfaction of the professors and lecturers concerned.
6. Schedules defining the courses of study which may be undertaken, and the examinations to be passed, shall be drawn up by the Faculty of Medicine and submitted to the Council. Such schedules shall become effective from the date of approval by the Council or such other date as the Council may determine, and shall be published as soon as practicable after that approval has been given.
7. On the recommendation of the Faculty of Medicine, the Council may accept as a candidate for the degree a person who in a medical course of another institution has passed examinations regarded as equivalent to that specified in section (a) of regulation 3.

Regulations allowed 12 December, 1963.
Amended: 21 Dec. 1972: 4; 15 Jan. 1976: 1, 2, 3, 6, 7.

OF THE HONOURS DEGREE OF
BACHELOR OF MEDICAL SCIENCE

SCHEDULES

(Made by the Council under regulation 6.)

SCHEDULE I: COURSE OF STUDY

1. A course of study for the degree may be undertaken in one of the following:

| | |
|------------------------------------|---|
| MA99 Honours Anatomy and Histology | MO99 Honours Obstetrics and Gynaecology |
| MH89 Honours Behavioural Science | MC99 Honours Paediatrics |
| SY89 Honours Biochemistry | MP99 Honours Pathology |
| MU99 Honours Community Medicine | MR79 Honours Pharmacology |
| SJ89 Honours Genetics | SS69 Honours Physiology |
| MM99 Honours Medicine | MH99 Honours Psychiatry |
| SK89 Honours Microbiology | MS99 Honours Surgery |

2. The course comprises three equally important aspects undertaken concurrently:

- (a) *Course of Reading* in selected fields, and the submission of a series of essays associated therewith.
- (b) *Experimental work*, covering a wide range of techniques.
- (c) *The undertaking of a research project* which will be assigned early in the course and on which a thesis must be submitted.

3. The examination for the degree will consist of a written paper or papers, the essays submitted during the year, the thesis on the research project, an oral examination, and a practical examination if required by the examiners.

OF THE HONOURS DEGREE OF
BACHELOR OF MEDICAL SCIENCE
SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

THE HONOURS DEGREE OF BACHELOR OF MEDICAL SCIENCE.

MA99 Honours Anatomy and Histology (B.Med.Sc.).

MH89 Honours Behavioural Science (B.Med.Sc.).

SY89 Honours Biochemistry (B.Med.Sc.).

MU99 Honours Community Medicine (B.Med.Sc.).

SJ89 Honours Genetics (B.Med.Sc.).

MM99 Honours Medicine (B.Med.Sc.).

SK89 Honours Microbiology (B.Med.Sc.).

MO99 Honours Obstetrics and Gynaecology (B.Med.Sc.).

MC99 Honours Paediatrics (B.Med.Sc.).

MP99 Honours Pathology (B.Med.Sc.).

MR79 Honours Pharmacology (B.Med.Sc.).

SS69 Honours Physiology (B.Med.Sc.).

MH99 Honours Psychiatry (B.Med.Sc.).

MS99 Honours Surgery (B.Med.Sc.).

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Chairman/Head of the appropriate department as early as possible.

OF THE
DIPLOMA IN PSYCHOTHERAPY
REGULATIONS

1. There shall be a postgraduate Diploma in Psychotherapy.
2. A candidate for admission to the course for the diploma shall have qualified for admission to the degrees of Bachelor of Medicine and Bachelor of Surgery of the University, or to a corresponding degree or degrees of another university accepted for the purpose by the University.
3. To qualify for the diploma a candidate shall:
 - (a) satisfactorily complete a course of part-time study extending over two years; and
 - (b) submit evidence that subsequently to qualifying for the award of the degree or degrees referred to in regulation 2 hereof he has undergone in a hospital, practical clinical training in psychotherapy deemed satisfactory by the Faculty, for a period of not less than two years.
4. The course of study shall be prescribed in schedules which shall be drawn up from time to time by the Faculty of Medicine and approved by the Council. Such schedules shall take effect as from the date of approval by the Council or such other date as the Council shall determine and shall be published in the next University Calendar which is issued after that approval has been given.
5. A candidate who has twice failed to pass the examination may not enrol for the diploma again except by special permission of the Faculty and then only under such conditions as the Faculty may prescribe.
6. For the purpose of this regulation a candidate who is refused permission to sit for examination, or who fails, without a reason accepted by the Dean as adequate, to attend all or part of an annual examination (or supplementary examination if granted) after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.
7. A candidate who complies with the foregoing conditions and satisfies the examiners shall be awarded the Diploma in Psychotherapy.

Regulations allowed 15 January, 1976.

OF THE

DIPLOMA IN PSYCHOTHERAPY

SCHEDULES

(Prescribed by the Council under regulation 4.)

SCHEDULE I: COURSE OF STUDY

A candidate for the Diploma in Psychotherapy shall regularly attend lectures, complete such written, practical and tutorial work as may be prescribed, and pass examinations in:

1. MH17 Individual Psychotherapy.
2. MH27 Behavioural Psychotherapy.
3. MH37 Evaluative Techniques in Psychotherapy.
4. MH47 Marital and Family Therapy.
5. MH57 Group and Milieu Therapy.

OF THE
DIPLOMA IN PSYCHOTHERAPY
SYLLABUSES

Text-books:

Details of required books will be provided at the beginning of the course: students are expected to procure the latest edition of all text-books prescribed.

Examinations:

Details of the method of examination in specific subjects may be obtained from the Department of Psychiatry: the methods will include continuous assessment of practical work, assessments of presentation of subjects in seminars, and written work.

DIPLOMA IN PSYCHOTHERAPY

The course is intended for graduates in Medicine, to provide systematic experience in a variety of treatment methods in psychotherapy; to foster a critical appraisal of indications for, limitations of, and evaluation of, such treatment methods. It is expected that the students will hold a concurrent clinical appointment. The timetable is devised so as to provide for the hospital commitments of students.

The course extends over two years of part-time study. It includes lectures, demonstrations, seminars and practical work on specific subjects as listed below.

Subject 1 below will normally be examined during the first year, and subjects 2, 3, 4 and 5 during the second year of the course.

Assessments will be on the basis of the presentation of clinical material, presentation of subjects in seminars, and essays:

The subjects of study are:

1. MH17 Individual Psychotherapy.
2. MH27 Behavioural Psychotherapy.
3. MH37 Evaluative Techniques in Psychotherapy.
4. MH47 Marital and Family Therapy.
5. MH57 Group and Milieu Therapy.

MH17 Individual Psychotherapy.

The course will be taken over three terms, with two sessions each of one and a half hours a week, as well as practical work (in individual psychotherapy with a selected patient or patients) in the student's own time. The course will include review of therapy, and provision will be made for evaluation of treatment. A written record of treatment progress will be required, and this will provide part of the assessment of the student.

Topics will include: the nature of the psychotherapeutic process; historical review of major theoretical systems of psychotherapy; criteria for selection for individual psychotherapy; limitations of individual psychotherapy; common factors in differing modes of individual psychotherapy; the place of short-term versus long-term therapy; psychotherapy in specific syndromes (e.g. psychosomatic disorders and psychotic states).

MH27 Behavioural Psychotherapy.

The course will be taken over one term with one session of one and a half hours a week as well as practical work exercises. The course will include demonstrations of specific techniques, and opportunities for acquisition of skills in these techniques.

Topics will include: the relationship between behaviour therapy and individual psychotherapy; the theoretical bases of behavioural approaches to treatment; specific indications for behavioural techniques; relaxation training, desensitization, and implosion methods; the place of adjunctive drug therapy.

MH37 Evaluative Techniques in Psychotherapy.

Lectures and seminars will be given over twelve sessions, with each session of one and a half hours' duration. The sessions will be interspersed throughout the course (two sessions per term) in order that the evaluative techniques may be applied to the particular psychotherapeutic method under study for that term.

Topics will include: methodological issues in establishing criteria for "change" in psychotherapy; patient/therapist variables affecting outcome; spontaneous remission of symptoms; the limitations of measurement; evaluation with specific treatment methods.

MH47 Marital and Family Therapy.

The course will be taken over one term with one session of one and a half hours a week, as well as practical work (family assessment with selected patients) in the students' own time. Such work will be reviewed and provision made for evaluation of such treatment.

Topics will include: models of marital and family interaction; indications for, scope of, and limitations of marital therapy, problems with the adolescent in family therapy; family therapy and child psychiatry.

MH57 Group and Milieu Therapy.

The course will be taken over one term, with two sessions each of one and a half hours a week for lecture/seminar material, in addition to one session a week of two hours' duration, for direct observation and discussion of group therapy techniques.

Topics will include: theoretical bases of group therapy approaches; "closed" and "open" groups; integration of group therapy in ward administration; criteria for selection for group therapy; indications for, scope of, and limitations of group therapy; techniques of leadership and facilitation of group processes.

OF THE
DIPLOMA IN CLINICAL SCIENCE
REGULATIONS, SCHEDULES AND
SYLLABUSES

NOTE: This course will not be offered in 1981.

For regulations, schedules and syllabuses of the Diploma in Clinical Science, *see* Calendar of the University for 1978, Volume II, pages 929-932.

OF THE DEGREE OF
MASTER OF CLINICAL SCIENCE

For regulations of the degree of Master of Clinical Science, *see* Calendar of the University for 1979, Volume II, page 924.

OF THE DEGREE OF
DOCTOR OF MEDICINE
REGULATIONS

1. The following persons may be accepted as candidates for the degree of Doctor of Medicine:

- (a) Bachelors of Medicine of the University of Adelaide;
- (b) Graduates in medicine of another university who hold a degree which is accepted by the Council on the recommendation of the Faculty of Medicine as equivalent to the degree of Bachelor of Medicine of the University of Adelaide.

2. No person may be awarded the degree of Doctor of Medicine until three years have elapsed since he became qualified to receive the degree specified in regulation 1 of these regulations. He may proceed to the degree either by completing a period of research and presenting a satisfactory thesis thereon, or by the submission of previously published work.

3. No thesis or other work presented for the degree may include material which has been accepted for any other degree or qualification of any university or institution. The degree shall not be awarded unless the thesis or work submitted contain an account of original work by the candidate for the degree amounting to a substantial contribution to knowledge.

4. When he submits his thesis or other work, a candidate shall:

- (a) submit therewith a declaration that the thesis or work is his own composition;
- (b) indicate wherein he considers the thesis or work to advance medical knowledge or practice;
- (c) furnish a history of the progress of medical knowledge in the subjects of the thesis or work;
- (d) indicate clearly and fully, by appropriate references, the extent to which he is indebted for any portion of his work to any other person.

Regulations governing admission to the degree by thesis

5. A person who wishes to proceed to the degree of Doctor of Medicine by thesis shall make written application to the Academic Registrar for enrolment as a candidate. The applicant shall include a brief statement of the topic upon which he proposes, upon the completion of a period of research, to submit a thesis.

6. A person accepted as a candidate shall conduct or continue research in the field of study approved by the Faculty of Medicine (hereinafter referred to as the Faculty). The Faculty may, if it thinks it desirable, appoint a supervisor or supervisors of his research and may nominate a department or departments under whose aegis the candidate may be required to pursue his research. Unless the Faculty shall otherwise determine, a candidate shall not present his thesis for examination until after the expiry of six terms from the approval of his candidature.

7. The Faculty may permit a candidate to pursue his research at such place or places outside the University as it thinks fit.

8. A candidate shall give the Academic Registrar one month's notice in writing of his intention to submit his thesis and shall give particulars of any other work which he desires to submit in support of his thesis. The Faculty may permit the submission of such work if in its opinion it may conveniently be examined along with the thesis.

9. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions* given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar shall transmit two of the copies to the University Library.

10. The Faculty shall nominate examiners of the thesis of whom at least one shall be an external examiner. The Faculty may require the candidate to submit himself for examination upon the subject of his thesis and matters related thereto.

11. After the examiners' reports have been considered the Faculty may recommend that the candidate:

- (a) be awarded the degree; or
- (b) be awarded the degree on the satisfactory completion of an examination on the subject of his thesis and matters related thereto; or
- (c) be not awarded the degree, but be allowed to revise and re-submit his thesis (within such period as the Faculty may allow); or
- (d) be not awarded the degree and be not allowed to re-submit his thesis.

Regulations concerning admission to the degree by previously published work

12. Any person who satisfies the requirements of regulation 1 hereof may seek the permission of the Faculty to submit, as evidence that he is a fit and proper person to receive the degree, work or papers previously published by him.

13. Any person who seeks the permission of the Faculty under regulation 12 hereof shall apply in writing to the Academic Registrar giving particulars of the work which he proposes to submit together with a *curriculum vitae*. The Faculty shall refer the matter to a committee which shall enquire into it and make recommendations to the Faculty. The Faculty may refuse to grant the permission sought or it may, if it entertains serious doubts about the suitability of the work which the applicant proposes to submit, advise him of its doubts and request him to reconsider his application.

14. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions* given in clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar shall transmit two of the copies to the University Library.

15. The Faculty shall nominate examiners of the work of whom at least one shall be an external examiner. The Faculty may require the candidate to submit himself for examination upon the subject of his work and matters related thereto.

16. After the examiners' reports have been considered the Faculty may recommend that the candidate:

- (a) be awarded the degree; or
- (b) be awarded the degree on the satisfactory completion of an examination on the subject of his work and matters related thereto; or
- (c) be not awarded the degree.

17. Notwithstanding the provisions of the preceding regulations, the Council may, on the recommendation of the Faculty, admit to the degree any person other than a member of the staff of the University. Any such recommendation shall be accompanied by evidence that the person has made an original and substantial contribution to knowledge.

Regulations allowed 21 December 1967.

Amended: 15 Jan. 1976: 17; 8 Feb. 1979: 6.

*Published in "Notes and Instructions to candidates for Higher Degrees"
see Table of Contents.

FACULTY OF MUSIC

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

Bachelor of Music (B.Mus.)

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| Regulations..... | 830 |
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Master of Music (M.Mus.)

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Doctor of Philosophy (Ph.D.)

Regulations and Schedules: under "Board of Research Studies"—*see* Table of Contents.

Doctor of Music (D.Mus.)

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OF THE DEGREE OF

BACHELOR OF MUSIC

REGULATIONS

1. There shall be an Ordinary degree and an Honours degree of Bachelor of Music. A candidate may obtain either degree or both.

2. The course of study for the Ordinary degree shall extend over three academic years and that for the Honours degree over four academic years.

3. To qualify for the Ordinary degree a candidate shall complete three years of academic study and pass the examinations prescribed under schedule I.

4. (a) To qualify for the Honours degree a candidate shall attend lectures and do such other work as may be properly required by the professors and lecturers concerned, and pass examinations in accordance with the provisions of schedule II.

(b) The names of candidates who qualify for the Honours degree shall be published in alphabetical order within the following classes and divisions in each school:

First Class

Second Class

Division A

Division B

Third Class.

(c) A candidate who, after examination, has failed to obtain Honours shall be reported to the Faculty which may recommend that he be awarded the Ordinary degree, provided that he has, in all other respects, completed the work for the Honours degree.

(d) A candidate may not enrol a second time for the final Honours course if he (i) has already qualified for Honours, or (ii) has presented himself for examination, but has failed to obtain Honours, or (iii) withdraws from the Honours course, unless the Faculty on such conditions as it may determine permits him to re-enrol.

5. Schedules defining the courses of study (including lectures, practical work, and examinations) to be undertaken, shall be drawn up by the Faculty of Music and submitted to the Council for approval. Such schedules shall become effective from the date of approval by the Council or such other date as the Council may determine, and shall be published as soon as practicable after that approval has been given.

6. Except by permission of the Faculty of Music, a candidate shall not be admitted to the class in any subject for which he has not completed the pre-requisite work prescribed in the syllabus for that subject.

7. The separate subjects which together comprise an academic year of study need not all be taken in one and the same year, nor need the examination in all the subjects of the academic year of study be passed at the same time; but except by special permission of the Faculty of Music a candidate shall not proceed to any part of the work of the second or a subsequent year unless he has satisfied the pre-requisite work prescribed in the syllabus of the subject concerned.

8. (a) The annual examination shall be held towards the end of each academic year. A candidate shall enter for examination on the form and by the date prescribed by the Council, but unless granted exemption by the Faculty of Music, he shall not be eligible to present himself for examination unless he has regularly attended the prescribed lectures and has done the written and practical work required to the satisfaction of the professors and lecturers concerned.

(b) The examination in a subject shall take the form prescribed in the syllabus. Written or practical work done by the candidates by direction of the professor or lecturer concerned, and the results of terminal or other examinations held during the year, may be taken into consideration at the final examination in any subject.

(c) The names of candidates who pass in any subject for the Ordinary degree shall be published in alphabetical order within the following classifications: Pass with Distinction, Pass with Credit, Pass.

9. (a) A candidate who fails to pass in any subject shall, before presenting himself again for examination, again attend lectures and do written or practical work in that subject to the satisfaction of the professor or lecturer concerned unless granted exemption from doing so by the Faculty of Music.

(b) A candidate who has twice failed to pass the annual examination in any subject or division of a subject may not present himself again for instruction or examination therein unless his plan of study is approved by the Dean. If he fails a third time he may not proceed with the subject again except by special permission of the Faculty of Music and under such conditions as the Faculty may prescribe.

(c) For the purpose of sections (a) and (b) of this regulation a candidate who is refused permission to sit for examination, or who fails either to enter for or to attend an annual examination after having enrolled for at least two terms in that year, shall be deemed to have failed to pass the examination.

10. (a) A candidate who, on account of illness or other sufficient cause allowed by the Faculty, is prevented from attending the whole or part of any annual examination may be permitted by the Faculty of Music to present himself for a supplementary examination.

(b) A candidate who presents himself at an annual examination but fails to pass, may, on the recommendation of the Board of Examiners, be permitted by the Faculty of Music to present himself for a supplementary examination.

(c) A candidate shall not be re-examined at a supplementary examination in any subject in which he passed at the preceding annual examination.

11. A candidate who has passed equivalent examinations in the University or elsewhere and desires that such examinations be counted *pro tanto* for the degree of Bachelor of Music may, on written application, be granted such exemption from the requirements of these regulations as the Council may determine.

12. A candidate may at any time apply for status under these regulations and shall be granted such status thereunder as the Faculty of Music may in each case determine.

Regulations allowed 28 January, 1965.

Amended: 16 Dec. 1971: 3,4,7,8,9,10,12; 21 Dec. 1972: 12; 15 Jan. 1976: 5; 23 Dec. 1976: 8; Awaiting allowance: 12.

OF THE DEGREE OF

BACHELOR OF MUSIC

SCHEDULES

(Made by the Council under regulation 5.)

NOTE: Syllabuses of subjects for the degree of B.Mus. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE 1: THE ORDINARY DEGREE

1. Before admission to the course of study for the degree of Bachelor of Music, a candidate shall show sufficient musical aptitude and may be required to pass a special entrance examination appropriate to the course of study he wishes to pursue.

2. Courses of study must be approved by the Director of the Elder Conservatorium of Music (or his nominee) at enrolment each year.

3. A candidate for the degree will, throughout the period of his enrolment, be under the direction of a course supervisor. He will normally be required to attend and satisfactorily participate, for up to two hours a week, in tutorials and practical lessons, as determined by the supervisor in consultation with the Director of the Elder Conservatorium of Music and the candidate's practical teacher. In addition he will be required to take part satisfactorily in general practical work in the Elder Conservatorium of Music (e.g. choir, orchestra and chamber music).

4. To qualify for the Ordinary degree a candidate shall satisfy the examiners in each of the following subjects:

First Year.

| | |
|---------------------------------------|---|
| UM21 Historical and Related Studies I | <i>Elective Subject:</i> |
| | UM51 Elective Studies I; <i>or</i> |
| UM31 Theoretical Studies I | UA11 Drama I; <i>or</i> |
| UM41 Practical Studies I | A subject, other than a Music subject, offered by the Faculty of Arts. |

Second Year.

| | |
|--|---|
| UM22 Historical and Related Studies II | UM52 Elective Studies II; <i>or</i> |
| UM32 Theoretical Studies II | <i>By special permission:</i> |
| UM42 Practical Studies II | UA12 Drama II; <i>or</i> |
| | Another first-year subject, other than a Music subject, offered by the Faculty of Arts. |

Third Year.

| | |
|---|----------------------------|
| UM23 Historical and Related Studies III | UM43 Practical Studies III |
| UM33 Theoretical Studies III | UM53 Elective Studies III |

NOTES (not forming part of the schedules):

1. *Work required to complete an Adelaide degree.*

To qualify for the degree of Bachelor of Music a student granted status under regulation 11 must, except in special cases approved by the Faculty, complete all the work of the final year of the degree course while attending the Elder Conservatorium of Music.

2. *Candidates undertaking study for the degrees of B.Mus. and B.A. concurrently.*

Candidates may enrol for the degrees of B.Mus. and B.A. concurrently if they apply for and are admitted to both the Faculty of Music and the Faculty of Arts.

The Faculties of Arts and Music recommend that such candidates should take their subjects according to the following scheme:

| | |
|--------------|--|
| First Year: | Two first-year Arts subjects (but not UA51 Music I) and two first-year Music subjects. |
| Second Year: | One second-year Arts subject, two first-year Music subjects and one second-year Music subject. |
| Third Year: | One second-year Arts subject, and three second-year Music subjects. |
| Fourth Year: | Two third-year Arts subjects. |
| Fifth Year: | The third year of the B.Mus. course. |

SCHEDULE II: THE HONOURS DEGREE

1. (a) Before entering an Honours course a candidate must obtain the approval of the Director of the Elder Conservatorium of Music, who will take into account his academic record up to the time of his application. Normally such approval should be sought at the end of the second year of the course for the Ordinary degree.

(b) The work of the final Honours year must be completed in one year of full-time study, provided that the Faculty may permit a candidate to spread the work over two years, but not more, on such conditions as it may determine.

2. To qualify for the Honours degree a candidate shall complete:

(a) the work prescribed in schedule I: The Ordinary degree, provided that a topic of his elective work shall be in the subjects in which he subsequently takes Honours;

(b) one of the following Honours subjects:

| | |
|---------------------------------|--------------------------|
| UM99 Honours Composition | UM89 Honours Musicology |
| UM59 Honours Ethnomusicology | UM79 Honours Performance |
| UM69 Honours Music in Education | |

or in a combination of subjects approved by the Faculty. The combination shall include such parts of two subjects as shall, when combined, be deemed by the Faculty to be equivalent to a single subject. Candidates may devote one-sixth of their course of study to such coursework in another area as the Director of the Elder Conservatorium may approve.

OF THE DEGREE OF

BACHELOR OF MUSIC

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such as the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

MUSIC.

Courses are offered in the Elder Conservatorium of Music and in the Centre for Aboriginal Studies in Music.

All students are required to take part satisfactorily in group practical work in the Elder Conservatorium of Music.

Detailed syllabuses and book lists will be available from the Elder Conservatorium of Music early in 1981.

FIRST-YEAR SUBJECTS.

UM21 Historical and Related Studies I.

Lectures and tutorials on the History of Western Music together with an Introduction to Ethnomusicology (one-third of the subject).

Text-books:

- Seay, A., *Music in the medieval world* (Prentice-Hall).
- Brown, H. M., *Music in the Renaissance* (Prentice-Hall).
- Palisca, C. V., *Baroque music* (Prentice-Hall).
- Pauly, R. G., *Music in the classical period* (Prentice-Hall).
- Longyear, R. M., *Nineteenth century romanticism in music* (Prentice-Hall).
- Salzman, E., *Twentieth century music* (Prentice-Hall).

UM31 Theoretical Studies I.

Lectures and tutorials in music theory, with a course in Aural Awareness.

Text-books:

Aldwell, E., and Schachter, C., *Harmony and voice leading I* (Harcourt, Brace and Jovanovich).

Jacob, G., *Orchestral technique* (Oxford).

Schoenberg, A., *Preliminary exercises in counterpoint* (Faber).

UM41 Practical Studies I.

(a) *Performance.*

Individual tuition in an instrument/voice and a Master Class (Style and Repertoire)

OR

Composition

Individual and/or group tuition.

(b) *Other Classes.*

These include orchestras, choirs, ensembles and workshops (Music in Education, Electronic Music, Composers' Seminar, Cross-Cultural Practical Studies, etc.).

FIRST-YEAR ELECTIVE SUBJECT.

UM51 Elective Studies I.

Supervised studies and course work in:

Performance

OR

Composition

OR

UA11 Drama I.

For syllabus see under the degree of B.A. in the Faculty of Arts.

OR

A subject, other than a Music subject, offered in the Faculty of Arts (see schedule I of the degree of B.A.).

SECOND-YEAR SUBJECTS.

UM22 Historical and Related Studies II.

(a) *Project IIA.*

A historical project from the project list.

(b) *Project IIB.*

Any project from the project list.

UM32 Theoretical Studies II.

Lectures and tutorials in music theory together with a course in Aural Awareness.

UM42 Practical Studies II.(a) *Performance.*

Individual tuition in an instrument/voice and a Master Class (Style and Repertoire)

OR

Composition.

Individual and/or group tuition.

(b) *Other Classes.*

These include orchestras, choirs, ensembles and workshops (Music in Education, Electronic Music, Composers' Seminar, etc.).

UM52 Elective Studies II.

Supervised studies and course-work in *one of the following*:

- (a) Performance
- (b) Composition
- (c) Musicology
- (d) Music in Education
- (e) Ethnomusicology

In approved cases this may be taken as two half-units.

OR BY SPECIAL PERMISSION:

UA12 Drama II.

For syllabus see under the degree of B.A. in the Faculty of Arts.

OR

Another first-year subject, other than a Music subject, offered in the Faculty of Arts (see schedule I of the degree of B.A.).

THIRD-YEAR SUBJECTS.**UM23 Historical and Related Studies III.**(a) *Project IIIA.*

A historical project from the project list.

(b) *Project IIIB.*

Any project from the project list.

UM33 Theoretical Studies III.

Lectures in music theory together with a course in Aural Awareness.

UM43 Practical Studies III.(a) *Performance.*

Individual tuition in an instrument/voice and a Master Class (Style and Repertoire).

OR

Composition.

Individual and/or group tuition.

(b) *Other Classes.*

These include orchestras, choirs, ensembles and workshops (Music in Education, Electronic Music, Composers' Seminar, etc.).

UM53 Elective Studies III.

Supervised studies and course-work in *one of the following*:

- (a) Performance
- (b) Composition
- (c) Musicology
- (d) Music in Education
- (e) Ethnomusicology

In approved cases this may be taken as two half-units.

CENTRE FOR ABORIGINAL STUDIES IN MUSIC.

Students may present work at the Centre within the following subjects:

- (a) UM22 Historical and Related Studies II
- (b) UM52 Elective Studies II
- (c) UM23 Historical and Related Studies III
- (d) UM53 Elective Studies III
- (e) Practical Studies in Aboriginal Singing as part of UM41, UM42 and UM43
- (f) Cross-cultural instrumental studies as part of UM41, UM42 and UM43.

Honours and postgraduate work in Ethnomusicology is also offered by the Centre in conjunction with the Elder Conservatorium of Music.

HONOURS DEGREE OF BACHELOR OF MUSIC.

FINAL HONOURS SUBJECTS.

UM99 Honours Composition.

A course of seminars and individual tuition in composition and analysis of music.

Candidates will be required to submit a major work, or group of works, the general nature of which has been approved in advance by the Faculty of Music, and which must be lodged with the Dean by 1 November of the year in which the candidate intends to take the examination. Assignments in advanced analysis must be completed during the year.

UM59 Honours Ethnomusicology.

A course of seminars and individual tuition in the theoretical background to ethnomusicology, including field techniques, transcription, analytical procedures, performance techniques.

UM69 Honours Music in Education.

A course of workshops in creative music and improvisation; and a comprehensive study of more advanced teaching methods, including associated work in electronics. Part of this work will involve students taking projects into primary and secondary schools.

UM89 Honours Musicology.

A reading knowledge of a language or languages necessary for the course of study will be assumed.

Candidates will be required to complete individual research assignments as directed.

1. HISTORICAL MUSICOLOGY.

A course of seminars and individual tuition in: paleography; selected theoretical writings; editorial practice; musicological method (analytical bibliography, source evaluation, periodisation of musical terminology).

OR

2. SYSTEMATIC MUSICOLOGY.

A course of seminars and individual tuition in: advanced acoustics; psycho-acoustics; music physiology; advanced music aesthetics; music philosophy; information theory.

UM79 Honours Performance.

A course of individual tuition in performance.

Candidates will be required to perform two recital programmes, approved in advance by the Faculty of Music, for public performance, and to submit programme notes on the works performed.

ADDITIONAL SUBJECTS.

UA11 Drama I (B.A.).

UA12 Drama II (B.A.).

UA51 Music I (B.A.).

UA61 Music IA (B.A.).

UA52 Music II (B.A.).

UA53 Music III (B.A.).

UA68 Music IIIS (B.A. Preliminary Honours).

UA69 Honours Music (B.A.).

PROVISIONAL PROJECT PROGRAMME 1981.

Projects are studied from a broad perspective which covers, as well as specific considerations of music theory and music history, the related musicological implications of aesthetics, philosophy and sociology. At the time of printing the Project Programme has not been finally determined; it will be available from the Elder Conservatorium of Music early in 1981.

OF THE DEGREE OF
MASTER OF MUSIC
REGULATIONS

1. The Faculty of Music may accept as a candidate for the degree of Master of Music a person who: (a) has qualified in the University of Adelaide for the degree of Bachelor of Music; or (b) has obtained, in another university or institution recognised for the purpose, a qualification which is accepted by the Faculty of Music as equivalent to the degree of Bachelor of Music in the University of Adelaide.

2. In special cases the Council, on the recommendation of the Faculty and subject to such conditions (if any) as it may impose in each case, may accept as a candidate for the degree a person who, irrespective of whether or not he is a university graduate, has given evidence satisfactory to the Faculty of his fitness to undertake studies for the degree of Master of Music.

3. The course of study for the degree shall comprise two parts as follows:

Part A: Such preliminary study and examinations as may be prescribed in the schedules of the degree extending over not more than one year of full-time study or two years of part-time study.

Part B: A course of advanced study and/or research extending over not less than one year nor more than three years of full-time study. The Faculty may, in special cases, permit a candidate to complete part B over not less than two years nor more than five years of part-time study. A candidate shall not be permitted to proceed to part B until he has fulfilled the requirements of part A.

4. A candidate may be exempted from the whole or such part of part A as the Faculty may decide if he has:

- (a) qualified for the Honours degree of Bachelor of Music; *or*
- (b) qualified for the Ordinary degree of Bachelor of Music and has passed in (i) all the Ordinary degree subjects that are compulsory for the Honours degree in the field to which his subject of study relates; and (ii) an examination of Honours standard approved by the Faculty; *or*
- (c) obtained a qualification which is accepted by the Faculty as equivalent to the Honours degree of Bachelor of Music in the University of Adelaide.

A candidate who has obtained qualifications which fully or partly satisfy the requirements specified in (a), (b) or (c) above may be exempted from the whole or such part of part A as the Faculty may decide, and shall thereafter fulfil the requirements of part B, as prescribed in the schedules.

5. If in the opinion of the Faculty of Music a candidate is not making satisfactory progress the Faculty may, with the consent of the Council, withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.

6. Every candidate shall pursue a programme of advanced study in music as prescribed in the schedules. The subjects and content and relative weighting of all sections of a candidate's programme, together with the method of examination of advanced work shall be approved by the Faculty, provided that the work of section 1 of schedule II shall be examined as provided in regulation 8.

7. On completion of work for the degree a candidate shall lodge with the Academic Registrar three copies of his submission made in accordance with the requirements of section 1 of schedule II, prepared in accordance with directions given to candidates from time to time.*

*Published in "Notes and Instructions to candidates for Higher Degrees":
see Table of Contents.

8. (a) Not less than two examiners, at least one of whom shall be an external examiner, shall be appointed by, and shall report to, the Faculty of Music.

(b) The examiners may require a candidate to undergo further examination in the field of study immediately relevant to his subject.

(c) The examiners may recommend that the work under examination:

(i) be accepted (subject, if they so recommend, to minor amendments being made); *or*

(ii) be not accepted but returned to the candidate for revision and re-submission; *or*

(iii) be rejected.

9. A candidate who fulfils the requirements of these regulations and satisfies the examiners in the field to which his subject relates shall on the recommendation of the Faculty of Music be admitted to the degree.

Regulations allowed 21 December, 1967.
Amended: 15 Jan. 1976: 3,6,7,8; 23 Dec. 1976: 2.

OF THE DEGREE OF
MASTER OF MUSIC
SCHEDULES

(Made by the Council under regulations 3, 4, 6 and 7.)

SCHEDULE I: PRELIMINARY STUDY AND EXAMINATIONS

Part A: Preliminary Study and Examinations

Such preliminary work and examinations as may be prescribed in each individual case. This shall normally comprise one Honours project and one Honours subject as prescribed in the schedules for the Honours degree of Bachelor of Music.

SCHEDULE II: PROGRAMMES OF STUDY

Part B: Programme of Advanced Study

A candidate shall satisfactorily complete a programme of advanced study to be approved by the Faculty after consultation with his supervisor including the following:

1. (a) a composition or compositions; *or*
(b) two public recitals to be given at an interval of not more than forty-eight hours, and a dissertation; *or*
(c) a thesis on a topic in Historical Musicology, Systematic Musicology, Ethnomusicology, Music in Education, Sonological Research, or in relevant interdisciplinary studies; *or*
(d) an edition with critical commentary; *or*
(e) a dissertation and a report on original field or practical work in any of the areas specified in (c) above.
2. Such other advanced course work or seminar work as may be prescribed or approved in each individual case.

OF THE DEGREE OF

DOCTOR OF MUSIC

REGULATIONS

1. (a) The Faculty of Music may accept as a candidate for the degree of Doctor of Music a person who:

- (i) has qualified in the University of Adelaide for the degree of Bachelor of Music or the degree of Master of Music; or
- (ii) has obtained another degree in the University of Adelaide and has satisfied the Faculty of his fitness to undertake studies for the degree of Doctor of Music.

(b) On the recommendation of the Faculty of Music, the Council may accept as a candidate for the degree a person who (i) has obtained in another university or institution of higher education recognised by the University of Adelaide a qualification accepted by the Faculty as equivalent to one of the qualifications specified in (a) above and (ii) has, or has had, a substantial association with the University.

(c) No person may be admitted to the degree of Doctor of Music before the expiration of five years from the date on which he obtained the qualification prescribed in (a) or (b) (i) above.

2. (a) A person who desires to become a candidate for the degree shall give notice of his intended candidature in writing to the Academic Registrar and with such notice shall furnish particulars of his musical achievements and of the work which he proposes to submit for the degree.

(b) The Faculty of Music shall appoint a committee to examine the information submitted and to advise the Faculty whether the Faculty should:

- (i) allow the applicant to proceed, and approve the subject or subjects of the work to be submitted; or
- (ii) advise the applicant not to submit his work; and the Faculty's decision shall be conveyed to the applicant.

(c) If it accept the candidature and approve the subject or subjects of the work to be submitted, the Faculty shall nominate examiners of whom two at least shall be external examiners.

3. (a) To qualify for the degree the candidate shall furnish satisfactory evidence that he has made an original and substantial contribution of distinguished merit to some branch of music.

(b) The degree shall be awarded primarily on a consideration of such of his published compositions or other scholarly works as a candidate may submit for examination, but the examiners may take into account any unpublished original composition or other work that he may submit in support of his candidature.

(c) The candidate in submitting his published works other than compositions shall, where applicable, state generally in a preface and specifically in notes the main sources from which his information is derived and the extent to which he has availed himself of the work of others, especially where joint publications are concerned. He may also signify in general terms the portions of his work which he claims as original.

(d) The candidate shall indicate what part, if any, of the compositions or other work he has submitted for a degree in this or any other University.

4. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.

5. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Music, be admitted to the degree of Doctor of Music.

6. Notwithstanding anything contained in the preceding regulations the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to some branch of musical knowledge of a standard not less than that required by regulation 3.

Regulations allowed 17 December, 1970.
Amended: 15 Jan. 1976: 6.

FACULTY OF SCIENCE

REGULATIONS, SCHEDULES AND SYLLABUSES OF DEGREES

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OF THE DEGREE OF
BACHELOR OF SCIENCE
IN THE FACULTY OF SCIENCE

REGULATIONS

1. There shall be an Ordinary and an Honours degree of Bachelor of Science. A candidate may obtain either degree or both.

2. The course of study for the Ordinary degree shall extend over three academic years and that for the Honours degree over four academic years.

3. (a) In these regulations and in schedules made under them by the Council the following definitions shall apply:

“Subject” means a course of study at the University normally completed in one academic year.

“Unit” means a course of study at the University on a prescribed topic normally completed in one academic term.

(b) The Council, after receipt of advice from the Faculty of Science, shall from time to time prescribe schedules defining (i) the subjects and units of study for the degree (ii) the range of subjects and units (including lecture courses, laboratory courses and other practical work) to be satisfactorily completed and the examinations to be passed by candidates, and (iii) the method of publishing the examination results.

(c) Such schedules shall become effective from the date of prescription by the Council or such other date as the Council may fix.

(d) The syllabuses of subjects and units shall be specified by the Head of the department concerned and submitted to the Faculty and Council for approval.

(e) Schedules made and syllabuses approved by the Council shall be published in the next edition of the University Calendar.

4. (a) Except by permission of the Faculty, a candidate shall not be admitted to the class in any subject or unit, for which he has not satisfactorily completed the pre-requisite studies as prescribed in the syllabus for that subject or unit.

(b) Exemption from any part of the course on the first occasion on which a candidate takes a subject or unit will be granted only in special cases and on grounds approved by the Faculty.

5. (a) Examinations in any subject or unit shall be held in accordance with the provisions of the relevant schedule made under these regulations.

(b) A candidate shall enter for examination in a subject on a form and by a date prescribed by the Council, but shall not be eligible to present himself for examination unless he has done written and laboratory or other practical work, where required, to the satisfaction of the teaching staff concerned.

(c) In determining a candidate's final result in a subject (or unit) the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

(d) A candidate will be permitted to take a supplementary examination only in circumstances approved by the Faculty, and then only if the candidate's previous work in the subject or unit has been such as to indicate that he has a reasonable chance of passing the supplementary examination.

6. There shall be three classifications of pass in any subject for the Ordinary degree, as follows: Pass with Distinction, Pass with Credit, Pass. The names of the candidates in each of the classifications shall be published in accordance with the provisions of the relevant schedule made under the regulations. If the list of candidates who pass be published in two divisions, a pass in the higher division may be prescribed in the appropriate syllabuses as pre-requisite for admission to another subject. A candidate with a lower division pass who wishes to gain a higher division pass shall be allowed to repeat the course, subject to the provisions of regulation 7.

7. (a) A candidate who fails to pass in a subject (or unit) or who obtains a lower division pass and who desires to take the subject or unit again shall, unless exempted wholly or partially therefrom by the Head of department concerned, do written and laboratory or other work in that subject or unit to the satisfaction of the teaching staff concerned.

(b) A candidate who has twice failed to obtain a Division I pass or higher in the examination in any subject shall not enrol for the subject again, or for any other subject which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or absents himself from the examination in any subject after having attended substantially the full course of instruction in it, shall be deemed to have failed to pass the examination. A candidate who obtains a higher division pass only after being granted permission to enrol for the third time shall not take a subject for which that higher division pass is a pre-requisite, save in exceptional circumstances and with the permission of the Faculty.

8. (a) A candidate who has passed subjects in other faculties or universities or elsewhere, may on written application to the Academic Registrar be granted such exemption from these regulations and from schedules made under them as the Council on the recommendation of the Faculty may determine.

(b) A graduate in another faculty, who wishes to proceed to the degree of Bachelor of Science in the Faculty of Science and to count towards that degree subjects which he has already presented for another degree may do so, subject to the following conditions:

(i) he shall present a range of subjects which fulfils the requirements of the relevant schedule made under regulation 3, and

(ii) he shall present two third-year subjects not presented for any other degree.

9. (a) There shall be the following classifications for the Honours degree and the names of successful candidates in each subject shall be published in alphabetical order within each classification:

First Class

Second Class

Division A

Division B

Third Class.

(b) A candidate who fails to obtain one of the foregoing classifications at his first attempt shall not be permitted to present himself again for the examination.

10. A graduate who has obtained the Honours degree of Bachelor of Arts, or the Honours degree of Bachelor of Science in the Faculty of Mathematical Sciences, may not proceed to the Honours degree of Bachelor of Science in the Faculty of Science in the same subject.

11. Applications for approval under clauses 4(a), 4(b), 7(a), 7(b), or 8 shall be submitted in writing to the Academic Registrar.

Regulations allowed 17 December, 1970.

Amended: 21 Dec. 1972: 3, 6, 8, 10; 15 Jan. 1976: 3; 23 Dec. 1976: 5; 31 Jan. 1980: 7.

OF THE DEGREE OF
BACHELOR OF SCIENCE
IN THE FACULTY OF SCIENCE
SCHEDULES

(Made by the Council under regulation 3.)

NOTE: Syllabuses of subjects for the degree of B.Sc. in the Faculty of Science are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

Notwithstanding the schedules and syllabuses published in this volume, a number of the units and options listed in the courses leading to the degrees of Bachelor of Arts and Bachelor of Science may not be offered in 1981.

The availability of *all* subjects, units and options is subject to the availability of staff and facilities.

SCHEDULE I: THE ORDINARY DEGREE

DEFINITIONS FOR THE PURPOSES OF THESE SCHEDULES

A Group A subject:

A subject in first year, equivalent to one-quarter of a year's work.

A Group A half-subject:

A half-subject in first year, equivalent to one-eighth of a year's work.

A Group B subject:

A subject in second year, equivalent to one-third of a year's work.

A Group C subject:

A subject in third year, equivalent to one-half of a year's work, basically consisting of six units or three double units.

A Group D subject:

A double subject in third year, equivalent to two group C subjects.

A Group E subject:

A subject which forms part of a combination approved *in lieu* of a group C subject under clause 5 of these schedules.

1. The subjects of study for the Ordinary degree shall be as follows:

GROUP A SUBJECTS AND HALF-SUBJECTS

Subjects

| | |
|--------------------|---------------------|
| SZ71 Biology I | QM11 Mathematics IM |
| SC01 Chemistry I | SP01 Physics I |
| SG01 Geology I | AY01 Psychology I |
| QM01 Mathematics I | |

Half-subjects

| | |
|-------------------------------|---|
| SP8H Astronomy IH | SJ7H Genetics and Human Variation IH |
| SB6H Botany IH | QM7H Mathematics IH |
| QA7H Computing IH | QT7H Statistics IH |
| SB5H Environmental Biology IH | |

GROUP B SUBJECTS

| | |
|------------------------------|--|
| QN22 Applied Mathematics IIA | QT02 Mathematical Statistics II |
| QN12 Applied Mathematics IIB | SK32 Microbiology and Immunology II |
| SY02 Biochemistry II | SO02 Organic Chemistry II |
| SB02 Botany II | SC02 Physical and Inorganic Chemistry II |
| NH12 Chemical Engineering II | SP02 Physics II |
| SC12 Chemistry II | SS02 Physiology II |
| SC22 Chemistry IIE | AY02 Psychology II |
| QA02 Computing Science II | QM02 Pure Mathematics II |
| QA12 Computing Science IIC | SZ02 Zoology II |
| SJ02 Genetics II | |
| SG02 Geology II | |
| SG72 Geophysics II | |

GROUP C SUBJECTS

| | |
|--|--|
| MA13 Anatomy and Histology III | SK33 Microbiology and Immunology III |
| MA43 Anatomy and Histology IIIM | SO03 Organic Chemistry III |
| QN03 Applied Mathematics III | SO83 Organic Chemistry IIIM |
| QN13 Applied Mathematics IIIA | MR43 Pharmacology III |
| QN83 Applied Mathematics IIIM | MR53 Pharmacology IIIM |
| SY03 Biochemistry III | SC13 Physical and Inorganic Chemistry IIIB |
| SY83 Biochemistry IIIM | SC83 Physical and Inorganic Chemistry IIIM |
| SB03 Botany III | SP03 Physics III |
| SB83 Botany IIIM | SP83 Physics IIIM |
| SC23 Chemistry III | SS03 Physiology III |
| QA03 Computing Science III | SS83 Physiology IIIM |
| QA13 Computing Science IIIA | AY23 Psychology III |
| QA83 Computing Science IIIM | QM03 Pure Mathematics III |
| SJ03 Genetics III | QM13 Pure Mathematics IIIA |
| SG03 Geology III | QM83 Pure Mathematics IIIM |
| SG83 Geology IIIM | QF03 Theoretical Physics III |
| SG23 Geology and Economic Geology IIIA | SZ03 Zoology III |
| SG33 Geology and Economic Geology IIIB | SZ83 Zoology IIIM |
| SG7s III | |
| QT03 Mathematical Statistics III | |

GROUP D SUBJECT

SC03 Physical and Inorganic Chemistry IIIA

GROUP E SUBJECTS

SG13 Palaeontology III SX33 Social Biology III

2. To qualify for the Ordinary degree a candidate shall, subject to the conditions and modifications specified in clauses 3, 4 and 5 below, satisfactorily complete the following range of subjects:

- Four group A subjects or their equivalent.
- Either three subjects from group B or two subjects from group B and a fifth group A subject or its equivalent.
- Either two subjects from group C or their equivalent, provided that only one combination of subjects permitted under clause 5 is presented, or one subject from group D.

3. A candidate shall not present more than one of the following subjects *in lieu* of not more than one group A subject or its equivalent required under clauses 2(a) and 2(b):

- NX21 Engineering IA;
- NX31 Engineering IB;
- RS11 Design Studies I;
- RS01 Building Studies I;
- RS41 Visual Communication;
- RS21 History and Theories of Architecture I;
- RS31 Art History and Theories;

The equivalent of one first year subject available in the Faculty of Arts.

4. (a) No candidate will be permitted to count for the degree any subject or half-subject together with any other subject or half-subject which, in the opinion of the Faculty, contains a substantial amount of the same material; and no subject, or half-subject, may be counted twice towards the degree.*

(b) No candidate may present the same half-subject, section of a subject, unit of a subject or option, in more than one subject for the degree.

(c) No candidate may count towards the degree a total of more than four group B and group C subjects taught by departments in the Faculty of Mathematical Sciences.

(d) No candidate may enrol in SB6H Botany IH unless he is enrolled in, or has previously passed, SZ71 Biology I.

5. A candidate may present one of the following combinations of subjects, *in lieu* of a subject from group C:

- SG13 Palaeontology III and SB02 Botany II;
- SG13 Palaeontology III and SJ02 Genetics II;
- SG13 Palaeontology III and SZ02 Zoology II;
- SX33 Social Biology III and AA02 Anthropology IIA or AA12 Anthropology IIB or AA22 Anthropology IIC;
- SX33 Social Biology III and AJ12 Geography IIA (Units J711 Economic Geography and J713 Social Geography);
- SX33 Social Biology III and AH02 History IIA or AH22 History IIB;
- SX33 Social Biology III and AL02 Philosophy II;
- SX33 Social Biology III and AP32 Politics IIA or AP42 Politics IIB;
- SX33 Social Biology III and AY02 Psychology II;
- SX33 Social Biology III can only be taken as a Group E subject by students whose other third-year subject is taken in one of the following departments: Anatomy, Physiology, Psychology, Genetics or Zoology.

6. (a) Final examinations in any subject or unit shall be held in the examination period defined by the Council following the completion of the course of instruction in that subject or unit.

(b) An examination counting as part of a final examination may be held in a part only of a subject if the Faculty so approve. Such examination should be held during the examination period defined by the Council.

Class and terminal examinations in a subject or unit may be held at any time fixed by the examiners concerned, provided that the examination is not held in the vacation and that attendance at the examination is not compulsory.

7. When, in the opinion of the Faculty of Science, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of clauses 1-6 above.

*A table of unacceptable combinations of subjects and half-subjects is given towards the end of this Volume (see Table of Contents).

8. The names of the candidates who pass in any subject shall be published in an official list and be arranged in alphabetical order in the classifications: Pass with Distinction, Pass with Credit and Pass.

NOTE (not forming part of the schedules):

Work required to complete an Adelaide degree.

To qualify for the degree:

- (i) students coming from other universities and wishing to obtain an Adelaide degree, are required to complete the whole of the work of the final year of the course;
- (ii) with special permission of the Faculty, a student who has completed most of the degree in Adelaide, including one third-year subject, may be permitted to complete the requirements for the degree at another institution.

All applications must be made in writing to the Academic Registrar.

SCHEDULE II: THE HONOURS DEGREE

1. A candidate may, subject to approval by the Head/Chairman of the department concerned, proceed to the Honours degree in one of the following subjects:

| | |
|--|---|
| MA79 Honours Anatomy and Histology | SO99 Honours Organic Chemistry |
| SY99 Honours Biochemistry | MR89 Honours Pharmacology |
| SB99 Honours Botany | SC99 Honours Physical and Inorganic Chemistry |
| SJ99 Honours Genetics | SP99 Honours Physics |
| SG99 Honours Geology | SS99 Honours Physiology |
| SG89 Honours Geophysics | AY89 Honours Psychology |
| QF99 Honours Mathematical Physics | SZ99 Honours Zoology |
| SK99 Honours Microbiology and Immunology | |

2. A candidate may, subject to the approval of the Faculty in each case, proceed to the Honours degree in a subject taught in a department in another faculty. Candidates must consult the Chairman of the department concerned and apply, in writing, to the Academic Registrar before 30 November in the preceeding year for admission to the Honours course.

3. A candidate for the Honours degree in any subject shall not begin final-year Honours work in that subject until he has qualified for the Ordinary degree of Bachelor of Science in either the Faculty of Science or the Faculty of Mathematical Sciences, and has completed such pre-requisite subjects (if any) as may be prescribed in the syllabus.

4. When, in the opinion of the Faculty of Science, special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary the provisions of clauses 1, 2 and 3 above.

OF THE DEGREE OF
BACHELOR OF SCIENCE
IN THE FACULTY OF SCIENCE

SYLLABUSES**Text-books:**

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

ANATOMY AND HISTOLOGY.**(FOR THE DEGREE OF BACHELOR OF SCIENCE)****SECOND YEAR.**

For details of the General Anatomy and Histology section of SS02 Physiology II, see under Physiology.

THIRD-YEAR SUBJECTS IN ANATOMY AND HISTOLOGY.

Pre-requisite subject: SS02 Physiology II (which includes a course in General Anatomy and Histology) at Division I or higher standard; or an equivalent standard in a similar subject approved by the Chairman of the Department of Anatomy and Histology (such approval to be obtained in writing through the Academic Registrar).

The Department offers one double unit and four single units dealing with three aspects of anatomy—gross morphology, cytology and its study methods, and selected aspects of functional systematic histology. Each unit, or its equivalent, consists of approximately 13 lectures and 40 hours of practical work, demonstrations and tutorials.

H301 GENERAL CYTOLOGY.

A single unit dealing with the structure and function of the cell and its organelles, including the cell membrane, nucleus, endoplasmic reticulum, ribosomes, Golgi complex, lysosomes, mitochondria, centrioles and microtubules. Emphasis is placed on the experimental basis of cytology.

Text-book:

de Robertis, E. D. P., and de Robertis, E. M. F., *Cell and molecular biology* (Saunders).

H306 REPRODUCTIVE BIOLOGY.

This single unit includes a study of the comparative biology of vertebrate reproductive processes. Emphasis is placed on evolution and diversity of gonadal structure, gamete morphology and various types of oestrous cycles in mammals. Embryological topics such as mechanisms of fertilisation, implantation, placentation and formation of general body form are also presented, together with the biological basis of fertility control.

Text-books:

Sadler, R. M. S. S., *Reproduction in vertebrates* (Academic Press).

Johnson, M., and Everett, B. J., *Essential reproduction* (Blackwell).

H308 HUMAN AND COMPARATIVE MORPHOLOGY.

A double unit dealing with the macromorphology of the human body and its functional systems, with emphasis on the development and evolution of form. Man's position as a vertebrate, a mammal and a primate are studied and comparisons made with other vertebrates where these are relevant to an understanding of man's structure.

Text-book:

Romer, A. S., and Parsons, T. S., *The vertebrate body* (Saunders).

H309 CYTOLOGICAL AND HISTOLOGICAL TECHNIQUES.

A single unit: topics covered include standard and special methods of light microscopy, electron microscopy and the special methods of tissue preparation for it, selected aspects of histochemistry; cell fractionation and tissue culture. The course emphasises principles, theory and application rather than the development of technical expertise.

Reading will be suggested during the course.

H310 NEUROCYTOLOGY AND NEUROENDOCRINOLOGY.

A single unit, providing a brief coverage of brain morphology, but concentrating on the special cytology of the nervous system and the role of the hypothalamus and extra-hypothalamic centres in endocrine regulation.

Reading will be suggested during the course.

The subjects offered are:

MA13 Anatomy and Histology III.

A Group C subject consisting of the one double unit and four single units listed above.

MA43 Anatomy and Histology IIIM.

A Group C subject. At least 4 units (or the equivalent thereof) from the above list, with 1 or 2 units, or a double unit, from another Department in the physical or biological sciences (including J333 Social Biology). The combination of units must be approved at the time of enrolment by the Heads/Chairmen of the Departments concerned.

HONOURS DEGREE.**MA79 Honours Anatomy and Histology.**

Pre-requisite: MA13 Histology and Cell Biology III, or Anatomy and Histology III (after 1980), at a standard satisfactory to the Department of Anatomy and Histology. Students who have taken individual units of the pre-requisite course, other disciplines of Anatomy (e.g. Embryology, Neurobiology, Gross Anatomy) or other suitable subjects will also be considered.

An intending candidate should consult the Chairman of the Department of Anatomy and Histology near the end of the year preceding the Honours year, and give full attendance for an academic year to a special course of study and laboratory work and participate in experimental research work under the supervision of Staff members of the Department. A course of reading, suggested by the Department of Anatomy and Histology, should be commenced during the long vacation prior to the Honours year.

BIOCHEMISTRY.

There are several combinations of subjects with SY02 Biochemistry II in second year which are appropriate for students intending to take Biochemistry III (SY03 or SY83) in third year. There is a place in the subject for those strongly biased towards the biological or towards the chemical subjects. For appreciation of modern biochemistry probably the most suitable subjects to take along with SY02 Biochemistry II are two of the following: SJ02 Genetics II, SO02 Organic Chemistry II, SC02 Physical and Inorganic Chemistry II, SS02 Physiology II, SK32 Microbiology II. Other subjects are, however, not excluded.

SY02 Biochemistry II.

Pre-requisite subject: A Division I pass in SC01 Chemistry I.

A course of three hour lectures and six hours tutorial and practical work a week.

The course will include: protein structure and function; biochemistry of enzymes; metabolism of carbohydrates, amino acids and lipids; biochemical control mechanisms in the cell; specialised functions—visual process, bone mineralisation, muscle contraction; nucleic acids and protein synthesis; biochemistry of gene action; microbiology and bacterial genetics; biochemistry in medicine and industry.

The practical work will be related to these topics.

Text-books:

Stryer, L., *Biochemistry* (Freeman).

Watson, J. D., *Molecular biology of the gene*, 3rd edition (Benjamin).

THIRD-YEAR SUBJECTS IN BIOCHEMISTRY.

Pre-requisite subjects for all third-year subjects in Biochemistry: SY02 Biochemistry II at Division I pass, or higher standard.

The Department offers the following units each consisting of not more than 16 lectures, about 50 hours practical work, tutorial sessions on data interpretation, and audio-visual presentations of special topics.

General text-book:

Freifelder, D., *Physical biochemistry*, 1st edition (Freeman paperback).

Y301 BIOCHEMISTRY OF MEMBRANES AND CELL SURFACES: First term.

The course deals with the special structure-function relationships of the lipid and protein components of biological membranes, and the way these two components are inter-related in the various membranes. The functional aspects include ATP generation, transport of ions and molecules across membranes, glycoproteins in membranes, cell surfaces, contact inhibition and possible relevance to control of cell division in cancer, hormone receptors, transport of proteins across membranes, chemotaxis, nerve impulse transmission and vision.

Y302 SYNTHESIS, ORGANISATION AND FUNCTION OF DNA: First term.

A central feature of living organisms is their ability to replicate. Cell cycles and the enzymic mechanisms of DNA replication are described for bacteria and higher cells and their repair processes by which the integrity of the encoded information is maintained are discussed. The unit further deals with the complexity of eukaryotic DNA, its packaging into chromosomes and the stability and availability of genes for expression.

Text-books:

Hood, L. E., and others, *Molecular biology of eucaryotic cells*, vol. 1 (Benjamin, paperback).
Kornberg, A., *DNA replication* (Freeman).

Y303 SYNTHESIS, ORGANISATION AND FUNCTION OF RNA: Second term.

We first ask how a gene is 'read' into RNA and then consider the ways in which the RNA transcript is processed and modified into its biologically active form. Previously unexpected re-arrangements may occur, such as cutting and re-splicing different segments of RNA to form novel messenger RNA species. Special features of the interaction of mRNA with ribosomes are considered and the unit then addresses the question of how the transcriptional events are integrated and controlled.

Text-book:

Kornberg, A., *DNA replication* (Freeman).

Y304 STRUCTURE AND BIOLOGICAL ACTIVITY OF PROTEINS: Second term.

This course will deal with the following relationship of the structure of proteins to their diverse biological functions; the forces determining the three-dimensional shapes of proteins; the conservation during evolution of structural features; assembly of supramolecular structures such as ribosomes and viruses; biological functions of proteins and mechanisms of enzyme actions; enzyme inhibitors and probes for active site structure determination.

Text-book:

Ferdinand, W., *The enzyme molecule* (Wiley).

Y305 REGULATION OF EUKARYOTE METABOLISM: Third term.

This course deals with the various ways which the many pathways of multi-cellular organisms are controlled and co-ordinated. The experimental approaches and data available (and their limitations) are discussed in relation to compartmentation, the allosteric and covalent modification of enzyme activity, substrate cycling, the molecular basis of hormone action, and the adaptive responses of organisms to environmental changes.

Text-books:

Denton, R. M., and Pogson, C. I., *Metabolic regulation* (Chapman and Hall).
Cohen, P., *Control of enzyme activity* (Chapman and Hall).

Y306 CONTROL OF GENE EXPRESSION: Third term.

The unit begins with a description of the control of transcriptional and translational events operating in prokaryotes and how these are integrated. This is followed by a discussion of the activity of genes in early embryogenesis and regulatory mechanisms in growth and differentiation including the induction of specific gene expression by hormones and growth factors.

The subjects offered are:

SY03 Biochemistry III.

A group C subject. Units Y301, Y302, Y303, Y304, Y305, Y306.

SY83 Biochemistry IIIM.

A group C subject. With approval of the Heads/Chairmen of Departments concerned a combination of four together with one double-unit or two single-units from other Departments.

HONOURS DEGREE.

SY99 Honours Biochemistry.

Pre-requisite subject: SY03 Biochemistry III *or* SY83 Biochemistry IIIM. In exceptional cases students having passed another group C subject, which includes as part of it one or more of the Biochemistry units, may be considered for entry into the Honours class.

Candidates are required to give their full time for an entire academic year to a special course of study and experimental work in the Department of Biochemistry. Candidates will normally be expected to start the course on the first Monday of February, but this can be altered in special circumstances by arrangement with the Professor of Biochemistry.

The work includes participation in a series of lecture-symposia on topics of modern biochemistry; participation in research seminars, and the performance of research work under the supervision of one or more members of the Biochemistry Department staff. Towards the end of the first term the student will report on the aim, significance and approach of his research topic. At the end of the year the candidate may present and defend an original proposition on science and submit the results of his research in the form of a thesis, which will also contain a literature review surrounding his research topic.

ADDITIONAL SUBJECTS.

SY72 Biochemistry (M.B., B.S.).

SY89 Honours Biochemistry (B.Med.Sc.).

SY82 Biochemistry (B.D.S.).

SY79 Honours Biochemistry (B.Sc.Dent.).

BOTANY.

Students are directed to refer to the Laboratory Rules, which are published at the end of the volume.

EXAMINATIONS.—All examinations in Botany cover *both* theoretical and practical aspects. These cannot be taken separately.

SB6H Botany IH.

This half-subject can be taken only concurrently with or following completion of SZ71 Biology I.

A half-subject comprising one lecture and two and a half hours practical per week which may include one discussion period a fortnight throughout the year.

SB6H Botany IH offers a more extensive first year treatment of plant science than does SZ71 Biology I alone. SZ71 Biology I deals with structure, physiology and evolution of plants and animals, elementary biochemistry, cell physiology and genetics, the mechanisms of evolution and the principles of ecology. SB6H Botany IH builds upon this basis to provide a full year equivalent coverage of plant science and includes study of a greater variety of plants and more information about physiology, ecology and relevance of plants to man. Field work may be included.

Text-book:

To be set by the Department.

SZ71 Biology I.

For SZ71 Biology I, a subject which is given jointly by the Departments of Botany and Zoology, see under Zoology.

SB5H Environmental Biology IH.

A half-subject comprising 1 lecture, a 2 hour practical a week, tutorials in alternate weeks, and one day field trip a term or the equivalent thereof. Case-history studies of specific environmental problems will be conducted.

The course is designed for students who have no previous knowledge of biology and who do not at this stage propose to continue with biological subjects. (It cannot be taken with either SZ71 Biology I or SB6H Botany IH.) The course is concerned with providing students with a sound biological basis for appreciating the practical problems arising from man's influence on, and use of, the natural environment.

A residential field course (5 days including travel time) is held in the last week of the May vacation at the Middleback Field Centre. Fee (food, etc.) approximately \$20. Allowance is made for this course in free time in second and third terms.

Introduction, historical perspective on the growing understanding of the South Australian environment. The biosphere concept. Introduction to organisms. Aspects of climate and soils. Australian vegetation, especially with reference to South Australia. National Parks as a management problem.

Aquatic habitats of Australia; their ecology and management. Eutrophication and water supply. Terrestrial habitats of Australia, the distribution and abundance of plants and animals, the invasion by exotic species. The growth and exploitation of populations. The replacement and stability of populations. Biological control.

Native vegetation in arid rangelands and conservation park contexts, and ecological research towards its management.

SB02 Botany II.

Pre-requisite subjects: A pass at Division I or higher standard in SZ71 Biology I. SC01 Chemistry I is not a formal pre-requisite but it is strongly recommended and a knowledge equivalent to it will be assumed.

The course comprises three lecture periods and two practical periods a week throughout the year.

A. EVOLUTION AND TAXONOMY OF THE ANGIOSPERMS: First term.

Natural selection and speciation, chromosome botany, recombination systems; taxonomic concepts illustrated by selected families and genera; biogeography and origin of angiosperms.

The practical portion of the course will teach the basic skills necessary to describe and identify angiosperms, and will acquaint students with the techniques used by modern systematists. In addition projects such as reports on field excursions, representative herbaria and species essays, will be given and assessed during the term. The nature of this project and its assessment may be varied, and candidates are advised to consult the Department Chairman if in doubt.

Text-books:

Black, J. M., *Flora of South Australia*, vols. 1-4 (Government Printer, Adelaide).

For additional text requirements see Department.

B. PLANT ECOLOGY AND PLANT ANATOMY: Second term.

Plant ecology: a lecture course during the term, dealing with principles and practice, followed by 5 days compulsory field work during the third week of the August vacation (costs approx. \$5 per day).

Plant anatomy: a practical course during the term covering the bases of vascular plant anatomy. Lectures introducing the practical work are included.

Text-books:

Esau, K., *Anatomy of seed plants*, 2nd edition (Wiley).

Kormondy, E. J., *Concepts of ecology*, 2nd edition (Prentice-Hall: paperback).

C. PLANT PHYSIOLOGY: Third term.

Enzymes; intermediary metabolism (respiration and photosynthesis); sources of metabolic energy; permeability of cells to water and solutes; movement of water and solutes through the plant; plant growth and development (including photo-periodism and hormone effects).

Text-books:

Bidwell, R. G. S., *Plant physiology*, 2nd edition (Macmillan); *OR*

Salisbury, F. B., and Ross, C., *Plant physiology*, 2nd edition (Wadsworth).

THIRD-YEAR SUBJECTS IN BOTANY.

Pre-requisite subjects: SB02 Botany II at Division I or higher standard. Special permission of the Chairman of the Department is required for particular units.

The Department offers the ten single-units listed below. Numbers B304-B310 each comprise 16 lectures and 48 hours practical work for one term. The other three are each equivalent in content to this but the work is done during intensive consecutive courses each of about three weeks duration, during January-February. These three courses are available to qualified visiting students, space permitting.

Students are advised to confirm the sequence of units at the time of enrolment.

B301 RANGELAND ECOLOGY: Summer.

An intensive course occupying most of January. Students wishing to enrol for this course must inform the Chairman of Department by 24 December of the preceding year. The course will include no more than two weeks continuous field work on an arid-zone station (cost approx. \$5 a day).

A course in ecology emphasising the study of the interactions between grazing animals and vegetation in arid areas, the principles involved, and their application to management practices.

B302 MARINE PLANT BIOLOGY A: Summer.

The benthic algae and their relationships; Chlorophyta; Phaeophyta, and Rhodophyta. The environment of marine algae and intertidal ecology. One day and one week-end field trip are part of this course.

Text-book:

Bold, H. C., and Wynne, M. J., *Introduction to the algae* (Prentice-Hall).

B303 MARINE PLANT BIOLOGY B: Summer.

Phytoplankton and seagrasses; marine ecology of benthic algae, phytoplankton and seagrasses; biogeography and utilisation of algae. Project: Comparative morphology of a selected species of Rhodophyta.

Text-book:

Bold, H. C., and Wynne, M. J., *Introduction to the algae* (Prentice-Hall).

B304 PLANT BIOCHEMISTRY: First term.

This course will cover some aspects of cellular biochemistry, especially with respect to the physiology of organelles (mitochondria, chloroplasts and microbodies) and their interactions. It will include carbohydrate and lipid metabolism, respiration, photosynthesis, photorespiration, membrane function, energy transduction and energetics.

B305 COMPARATIVE MORPHOLOGY: First term.

This course involves comparative studies of living and fossil representatives of bryophytes and vascular plants. Emphasis is placed on the morphology and life histories of living Australian examples. The course may include day field trips.

B306 PLANT NUTRITION: First term.

This course will cover the uptake and assimilation of inorganic nutrients by both aquatic and land plants. Specific topics will include the bioenergetics of ion transport into cells; transport through the plant in relation to plant structure and function; regulation of mineral content of plants; nitrogen metabolism; the problems posed by osmotic and salinity stress.

B307 EVOLUTIONARY PROCESSES: Second term.

A unit complementing taxonomic courses but also relevant to ecology and physiology; changes in chromosomes and karyotype evolution; mutation and protein changes with analyses at the level of both species and family.

Text-book:

Stebbins, G. L., *Chromosome evolution in higher plants* (Arnold).

B308 EVOLUTION OF SEED PLANTS: Second term.

The first half of the lecture course deals with basic concepts (e.g. continental drift, theory of uniformitarianism, floral vasculature, leaf architecture) relevant to palaeobotanists and evolutionary systematists. The second half presents current topics of research in these disciplines (e.g. origin of angiosperms, validity of palaeoecology) and may include student discussions of recent papers. The practicals will consist of 3 or 4 projects designed to teach the techniques used in this area of study.

B309 PHYTOPLANKTON ECOLOGY: Third term.

The unit will involve both field and laboratory work during the summer vacation. The lectures cover five main topics. Phytoplankton—succession and suspension; nutrients; phytoplankton growth and eutrophication; light trapping; photosynthesis and respiration; models of phytoplankton production and growth.

B310 PLANT WATER RELATIONS: Third term.

Physics of the plant environment and influences upon water in the plant; the plant water transport system; water deficits and drought resistance mechanisms. The course will deal with angiosperms, with some emphasis on arid-zone and sclerophyll vegetation. A field excursion will be held over the October long weekend.

The subjects offered are:

SB03 Botany III.

A group C subject. Six single-units from the above list selected with the approval of the Chairman of the Department.

SB83 Botany IIIM.

A group C subject. With approval of the Heads/Chairmen of the Departments concerned, a combination of four single-units from the above list together with two single-units or one double-unit from another department.

HONOURS DEGREE.**SB99 Honours Botany.**

Pre-requisite subjects: A satisfactory standard in SB03 Botany III or SB83 Botany IIIM or special permission of the Chairman of the Department.

Candidates are expected to acquire a more detailed knowledge than is required for the Ordinary degree. Students are required to give seminars and write essays. In addition, candidates are expected to study more deeply one branch of botany, to carry out research in this field and to present the results in a written report. Approximately one fifth of the total course is flexible and candidates choose, with approval, between additional project work and courses.

Candidates should consult the Chairman of the Department during the final year of their Ordinary degree course. The Honours course commences at the beginning of February.

CHEMISTRY.**INTRODUCTORY NOTES.**

1. The Department of Physical and Inorganic Chemistry and the Department of Organic Chemistry offer the following courses:

- First Year: SC01 Chemistry I; [additional subject SC71 Chemistry IM for the degrees of B.D.S. and M.B., B.S.].
- Second Year: SC02 Physical and Inorganic Chemistry II, SO02 Organic Chemistry II, SC12 Chemistry II, SC22 Chemistry IIE.
- Third Year: SC03 Physical and Inorganic Chemistry IIIA, SC13 Physical and Inorganic Chemistry IIIB, SC83 Physical and Inorganic Chemistry IIIM, SO03 Organic Chemistry III, SO83 Organic Chemistry IIIM, SC23 Chemistry III.
- Fourth Year: SC99 Honours Physical and Inorganic Chemistry, SO99 Honours Organic Chemistry.

2. Attention is drawn to the pre-requisite subjects for admission to the various courses as prescribed in the syllabuses below.

3. Students who intend to take third-year subjects in the Department of Physical and Inorganic Chemistry and/or the Department of Organic Chemistry are advised to take the following combinations of *First-Year* subjects: SC01 Chemistry I, SP01 Physics I, QM01 Mathematics I or QM11 Mathematics IM and *either* SZ71 Biology I or SG01 Geology I. Other combinations are, however, acceptable.

4. In second year four courses are available, SC02 Physical and Inorganic Chemistry II, SO02 Organic Chemistry II, SC12 Chemistry II and SC22 Chemistry IIE. Students intending to specialise in Chemistry should take SC02 Physical and Inorganic Chemistry II, SO02 Organic Chemistry II and SY02 Biochemistry II or QM02 Pure Mathematics II or QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB or SP02 Physics II. Other combinations are, however, acceptable, e.g. SC02 Physical and Inorganic Chemistry II, SP02 Physics II and QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB.

SC12 Chemistry II is a course oriented towards the biological and agricultural sciences. SC22 Chemistry IIE is a course directed towards the physical sciences and the needs of students taking courses in Chemical Engineering.

5. In third year a range of unit courses is offered by both the Departments of Physical and Inorganic and of Organic Chemistry. The subjects offered are: SC23 Chemistry III; SC03 Physical and Inorganic Chemistry IIIA, which incorporates eight units of Physical and Inorganic Chemistry, and four units from another Department; SC13 Physical and Inorganic Chemistry IIIB, SO03 Organic Chemistry III, which incorporates six units from the appropriate Department; SC83 Physical and Inorganic Chemistry IIIM, SO83 Organic Chemistry IIIM, which incorporates four units from the appropriate Department, together with two units from another Department. Students specialising in Chemistry are advised to choose a selection of subjects which will give a course of study involving twelve units selected from those available from both Departments. Other combinations with units or subjects from other Departments are permissible for those wishing to specialise in inter-disciplinary areas.

6. Entry to the Honours degree in Physical and Inorganic Chemistry (SC99) will normally involve courses in SC02 Physical and Inorganic Chemistry II, *and* in one of the third-year courses SC03 Physical and Inorganic Chemistry IIIA or SC13 Physical and Inorganic Chemistry IIIB or SC83 Physical and Inorganic Chemistry IIIM. Likewise entry to the Honours degree in Organic Chemistry (SO99), will normally involve courses in SO02 Organic Chemistry II, *and* in one of the third-year courses SO03 Organic Chemistry III or SO83 Organic Chemistry IIIM [preferably SO03 Organic Chemistry III]. In special cases and subject to approval of the appropriate Head/Chairman of Department, SC23 Chemistry III may be accepted as a pre-requisite for the Honours course in either Department.

7. Before enrolling for third-year unit courses all students *must* discuss their programmes with the Heads/Chairmen of the Departments concerned.

8. A student who wishes, or who thinks he may wish, to proceed to Honours in either Department of Chemistry is advised to discuss his course programme with the Head/Chairman of the Department concerned as early as possible.

SC01 Chemistry I.

A knowledge of Matriculation Chemistry and Physics will be assumed. Present experience shows that students who have not achieved a B grade in Matriculation Chemistry may have difficulty with this course. Students who have studied *either* Mathematics IS or Mathematics I and II at the Matriculation level will be greatly advantaged.

The course consists of three lectures, one three-hour practical class and one problem-solving class in each week throughout the year. Extensive notes are issued for both lecture and practical classes.

Students may be required to complete regular work assignments based on the lecture course.

The course is given in four sections:

Structure and Bonding: the structure of molecules, and methods of determining structure, models for chemical bonding, forces between molecules and acids and bases will be discussed.

Physical Chemistry: an introduction showing how chemical phenomena can be treated quantitatively and how such phenomena as the properties of the states of matter, solutions, surfaces, rates of chemical reactions, depend on molecular properties and forces between molecules.

Inorganic Chemistry: the chemistry of the main group and first row transition elements will be discussed with reference to halides, oxides, hydrides, aquo ions and simple organometallic compounds. The concepts of semi-conductor behaviour, crystal chemistry, dynamic equilibria, reaction mechanisms and catalysis will be introduced.

Organic Chemistry: an introduction to the properties, reactions (including mechanisms) and synthesis of representative organic compounds, including those of biological significance.

Text-books:

Mahan, B. H., *University chemistry*, 3rd edition (Addison-Wesley).

Brown, H., *Introduction to organic chemistry*, 2nd edition (Wadsworth International Students Edition).

Cotton, F. A., and Wilkinson, G., *Basic inorganic chemistry* (Wiley).

Students are recommended to obtain a set of molecular models; advice on suitable brands will be given in the Preliminary Lecture.

SC12 Chemistry II.

Pre-requisite subjects: A division I pass, or higher, in SC01 Chemistry I. A pass in a full or a half Mathematics subject in first year is desirable; a student without such qualification must obtain the permission of the Chairman of the Department of Physical and Inorganic Chemistry before enrolling.

The course is convenient for students taking biological subjects, but also allows entry to SC23 Chemistry III, and subject to special approval of the Chairman of the appropriate Chemistry Department, a limited programme of units in SC13 Physical and Inorganic Chemistry IIIB or SC83 Physical and Inorganic Chemistry IIIM or SO03 Organic Chemistry III or SO83 Organic Chemistry IIIM.

The course consists of three lectures, six hours of practical work and one tutorial a week throughout the three terms of the year.

The course covers the principles of organic, inorganic and physical chemistry. Lectures will deal with group transformations and synthetic methods in organic chemistry, application of spectroscopic techniques, carbohydrates, amino acids and proteins, heterocyclic compounds and other compounds of interest to the biologist; thermodynamics, redox chemistry, spectroscopy, synthesis and reactions of metal complexes (providing a basis for future studies in metallobiochemistry) and chemistry of the environment.

Text-books:

Kice, J. L., and Marvell, E. N., *Modern principles of organic chemistry* (Collier-Macmillan); OR

DePuy, C. H., and Rinehart, K. L., *Introduction to organic chemistry*, 2nd edition (Wiley International).

Cotton, F. A., and Wilkinson, G., *Basic inorganic chemistry* (Wiley).

Banwell, C. N., *Fundamentals of molecular spectroscopy*, 2nd edition (McGraw-Hill).

Huheey, J. E., *Inorganic chemistry* (Harper and Row).

SC22 Chemistry IIE.

Pre-requisite subjects: A Division I pass, or higher, in SC01 Chemistry I. The course assumes a knowledge of some topics covered in first-year Mathematics courses and students wishing to enrol for SC22 Chemistry IIE without having passed QM01 Mathematics I or QM11 Mathematics IM or QM7H Mathematics IH in combination with either QA7H Computing IH or QT7H Statistics IH must obtain the permission of the Chairman of the Department of Physical and Inorganic Chemistry.

The course is suitable for students taking Chemical Engineering, but also allows entry to SC23 Chemistry III and, subject to the special approval of the Chairman of the appropriate Chemistry Department, to a limited programme of units in SC13 Physical and Inorganic Chemistry IIIB or SC83 Physical and Inorganic Chemistry IIIM or SO03 Organic Chemistry III or SO83 Organic Chemistry IIIM.

The course consists of three lectures, one tutorial and six hours practical work a week throughout the three terms of the year.

The course is directed to the principles of physical, organic and inorganic chemistry with particular reference to chemical engineering. The course deals with thermodynamics, surface chemistry, chemistry of the environment, physical organic chemistry, group transformations and synthetic methods in organic chemistry, applications of spectroscopic techniques, and some classes of compounds of particular importance.

Text-books:

- Cotton, F. A., and Wilkinson, G., *Basic inorganic chemistry* (Wiley).
- Denaro, A. R., *Elementary electrochemistry*, 2nd edition (Butterworth).
- Kice, J. L., and Marvell, E. N., *Modern principles of organic chemistry* (Collier-Macmillan); OR
- DePuy, C. H., and Rinehart, K. L., *Introduction to organic chemistry*, 2nd edition (Wiley).

SC23 Chemistry III.

Pre-requisite subjects: A Division I pass or higher in SC12 Chemistry II or SC22 Chemistry IIE or SC02 Physical and Inorganic Chemistry II and SC02 Organic Chemistry II. The course, which will consist of three lectures and about twelve hours practical work a week throughout the three terms of the year, will deal with physical, inorganic and organic chemistry.

PHYSICAL AND INORGANIC CHEMISTRY.

SC02 Physical and Inorganic Chemistry II.

Pre-requisite subjects: A Division I pass, or higher, in SC01 Chemistry I. The course assumes a knowledge of some topics covered in first-year Mathematics courses and students wishing to enrol for SC02 Physical and Inorganic Chemistry II without having passed QM01 Mathematics I, or QM11 Mathematics IM, or QM7H Mathematics IH in combination with either QA7H Computing IH or QT7H Statistics IH must obtain the permission of the Chairman of the Department of Physical and Inorganic Chemistry.

The course consists of three lectures, one tutorial and not less than six hours' practical work a week throughout the three terms of the year.

This course deals with thermodynamics and surface chemistry, redox chemistry, crystal chemistry, chemical spectroscopy, structure and bonding in metal complexes, synthesis and reactions of metal complexes, electrochemistry and chemistry of the environment.

A more detailed syllabus will be available from the Department during the enrolment period.

The laboratory course is designed to illustrate and link in with the lecture course and also to introduce essential experimental techniques.

Text-books:

- Cotton, F. A., and Wilkinson, G., *Basic inorganic chemistry* (Wiley).
Denaro, A. R., *Elementary electrochemistry*, 2nd edition (Butterworth).
Banwell, C. N., *Fundamentals of molecular spectroscopy*, 2nd edition (McGraw-Hill).
Huheey, J. E., *Inorganic chemistry* (Harper and Row).
Bloss, F. D., *Crystallography and crystal chemistry* (Holt, Rinehart and Winston).
Hannay, N. B., *Solid state chemistry* (Prentice-Hall).

THIRD-YEAR SUBJECTS IN PHYSICAL AND INORGANIC CHEMISTRY.

Pre-requisite subjects: A Division I pass, or higher, in SC02 Physical and Inorganic Chemistry II is the desirable pre-requisite for third-year units. However, subject to the approval of the Chairman of the Department of Physical and Inorganic Chemistry in each case, students may be allowed to proceed to a limited programme of third-year units in Physical and Inorganic Chemistry on the basis of Division I passes or higher, in second-year (Group B) subjects other than SC02 Physical and Inorganic Chemistry II, in particular, programmes in SC13 Physical and Inorganic Chemistry IIIB and SC83 Physical and Inorganic Chemistry IIIM may be permitted to students with Division I passes, or higher, in SC12 Chemistry II or SC22 Chemistry IIE.

The Department offers the following units, each of which consists of about 15 lectures and about 54 hours' practical work and tutorials.

A pamphlet giving further information on unit courses will be available from the Department of Physical and Inorganic Chemistry in December and during the enrolment period. Prior to enrolling all third-year students taking unit courses should discuss their course with members of staff of the Department and finally with the Chairman of Department.

Students enrolling in any of the units C301, C305 or C308 will undertake a short course in *Molecular symmetry and group theory* which will be held at the beginning of First Term. Students should obtain the timetable of lectures and tutorials for this course from the Department at the beginning of Orientation Week. The formal course work in each of the four units will be reduced accordingly.

Text-book:

- Vincent, A., *Molecular symmetry and group theory* (Wiley).

C301 QUANTUM CHEMISTRY: First term.

Basic postulates. Problems involving square well potentials. Hydrogen-like atomic orbitals. Variation and perturbation approximations. Multi-electron atoms: the orbital approach, the self-consistent-field approximation. Molecular orbitals. Delocalised π -electron systems. Frontier orbitals. Orbital symmetry rules.

The theory course will be supplemented by a series of "workshops" taken to be equivalent to the practical courses associated with other units.

Text-book:

- Phillips, L. F., *Basic quantum chemistry* (Wiley).

C302 STATISTICAL THERMODYNAMICS: Third term.

Use of statistical methods to calculate thermodynamic properties and equilibrium constants; Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein quantum statistics. Determination of intermolecular forces from equilibrium and transport properties.

Text-book:

- Denbigh, K. G., *The principles of chemical equilibrium* (C.U.P.).

C303 CRYSTALLOGRAPHY: First term.

An introduction to X-ray structure determination and diffraction analytical techniques. The main sections are crystal symmetry, diffraction processes and image reconstruction, the procedures of X-ray structure determination and diffraction by real crystals. The practical work includes microscopy of crystal growing, laser diffraction, single crystal and powder X-ray photographs, symmetry in patterns and photographs, introduction to X-ray diffractometry and determination of a simple structure.

Text-book:

Glusker, J. P., and Trueblood, K. N., *Crystal structure analysis* (O.U.P.).

Reference books:

Stout, G. H., and Jensen, L. H., *X-ray structure determination* (Macmillan).

Azaroff, L. V., *Elements of X-ray crystallography* (McGraw-Hill).

C305 MOLECULAR SPECTRA: Second term.

Theory and selected applications of emission, absorption and resonance spectroscopies including the use of polarised radiation.

Text-books:

Chang, R., *Basic principles of spectroscopy* (McGraw-Hill); OR

Banwell, C. N., *Fundamentals of molecular spectroscopy*, 2nd edition (McGraw-Hill).

C306 ORGANOMETALLIC CHEMISTRY: First term.

Complexes containing organic ligands (e.g. CO, unsaturated hydrocarbons, etc.) attached to transition metals occupy an important position in present-day chemistry. The course discusses many interesting features of their chemistry including bonding theory, principles of synthesis, physico-chemical studies and reactions of the major types of complex, including those of catalytic and industrial importance. Some topics of wider applicability, such as stereochemical nonrigidity, polyatom cluster chemistry and metal-directed reactions of organic molecules, will also be covered.

Text-books:

Cotton, F. A., and Wilkinson, G., *Advanced inorganic chemistry*, 3rd edition (Interscience).

C307 MACROMOLECULES: Third term.

A physical chemical discussion of the structure and solution properties of natural and synthetic macromolecules.

Text-book:

Tanford, C., *Physical chemistry of macromolecules* (Wiley).

C308 METAL COMPLEXES: Third term.

Bonding in complexes, crystal field and charge transfer spectra. Formation of complexes in solution: species, equilibria, and energy changes.

Text-book:

Cotton, F. A., and Wilkinson, G., *Advanced inorganic chemistry*, 3rd edition (Interscience).

C309 INORGANIC REACTION MECHANISMS: Second term.

Typical reactions at metal and non-metal centres including bio-inorganic and excited state processes. Solvent and ligand exchange, substitution, isomerisation, oxidation-reduction.

Text-book:

Tobe, M. L., *Inorganic reaction mechanisms* (Nelson, paperback).

C310 ELECTROLYTE SOLUTIONS: Second term.

Equilibrium and transport properties of electrolyte solutions. Interpretation in terms of simple models.

Text-book:

Bockris, J. O'M., and Reddy, A. K. N., *Modern electrochemistry*, vol. 1 (Plenum).

Three different subjects in third-year Physical and Inorganic Chemistry are offered depending on whether eight, six or four units from the above list are taken along with units from other Departments. All students intending to take courses, in third-year Physical and Inorganic Chemistry *must* obtain notes issued by the Department on suggested combinations of units and *must* make an appointment to discuss their course with the Chairman of Department or members of Staff prior to enrolment during the enrolment period and/or immediately after the results of the November examinations are made known.

The subjects offered are:

SC03 Physical and Inorganic Chemistry IIIA.

A Group D subject. Eight units from the above list selected with the approval of the Head of Department together with four units or two double-units in either Organic Chemistry; or Biochemistry; or Pure or Applied Mathematics III; or other third-year subjects chosen after consultation with the Heads/Chairmen of the Departments concerned.

Note: The pre-requisites for the subjects in other Departments must be observed.

SC13 Physical and Inorganic Chemistry IIIB.

A Group C subject. Six units from the above list selected with the approval of the Chairman of Department.

SC83 Physical and Inorganic Chemistry IIIM.

A Group C subject. Four units from the above list with two units or one double-unit from one other Department selected with the approval of the Heads/Chairmen of the Departments concerned.

HONOURS DEGREE.**SC99 Honours Physical and Inorganic Chemistry.**

Pre-requisite subjects: Any third-year subject in the Department of Physical and Inorganic Chemistry together with subjects in any of the Departments of Organic Chemistry, Biochemistry, Mathematics, Mathematical Physics, Geology or Physics, or such other third-year subjects as may be approved by the Chairman of the Department of Physical and Inorganic Chemistry. Subject to the approval of the Chairman of the Department of Physical and Inorganic Chemistry in each case, a student may proceed to Honours in Physical and Inorganic Chemistry if he has taken a first degree programme which has not included a Physical and Inorganic Chemistry III subject.

Four Honours unit courses in advanced Physical and Inorganic Chemistry will be provided. Students will be required to take either these four units, or three of the Honours units with one third-year unit in Physical and Inorganic Chemistry, or three of the Honours units with one appropriate unit of equivalent weight from another Department. The lecture programme of each student will be determined by consultation with his research supervisor and the Chairman of Department. Each student will be assigned a research problem which he will investigate under the personal guidance of a member of staff of the Department of Physical and Inorganic Chemistry. The performance of each student will be assessed on the basis of written and oral examinations and the student's written report of his research investigation.

Books: Those for the Ordinary degree, and in addition other reference books which will be recommended by supervisors and lecturers.

ORGANIC CHEMISTRY.

SO02 Organic Chemistry II.

Pre-requisite subject: A Division I pass, or higher, in SC01 Chemistry I.

The course consists of three lectures and six hours practical work a week throughout the three terms of the year.

The lectures provide an introduction to the physical and theoretical aspects of organic chemistry, and a discussion of the synthesis, properties, biological significance and reactions of compounds belonging to the major families of aliphatic, aromatic and heterocyclic compounds.

Text-books:

Morrison, R. T., and Boyd, R. N., *Organic chemistry*, 3rd edition or Student edition (Allyn and Bacon); *OR*

Streitwieser, A., and Heathcock, C. H., *Introduction to organic chemistry* (Collier MacMillan International Edition).

Students should also purchase a suitable set of Molecular Models.

THIRD-YEAR SUBJECTS IN ORGANIC CHEMISTRY.

Pre-requisite subjects for all third-year subjects in Organic Chemistry: SO02 Organic Chemistry II at Division I pass, or higher standard. Subject to the approval of the Chairman of the Organic Chemistry Department in each case students may be allowed to proceed to a limited programme of third-year units in Organic Chemistry on the basis of Division I passes or higher in second-year subjects other than SO02 Organic Chemistry II.

The Department offers the following units each of which consists of about 15 lectures and about 54 hours' practical work and tutorials.

O301 SPECTROSCOPY: First term.

Theory and applications in organic chemistry of infra-red, ultra-violet, nuclear magnetic resonance, and mass spectrometry.

O302 PERICYCLIC REACTIONS AND FREE RADICAL CHEMISTRY: First term.

Theoretical aspects and synthetic applications of pericyclic reactions; photochemistry; structure and reactions of organic free radicals.

O303 PHYSICAL ORGANIC CHEMISTRY: Second term.

Thermodynamics and kinetics of organic systems; conformational analysis and stereochemistry; aromaticity; medium effects; structure-activity relationships; isotope effects.

O304 MECHANISM AND SYNTHESIS I: Second term.

General synthetic methods with particular emphasis on the mechanism and applications of reactions involving dissolving metal reductions, carbanions and carbonium ions.

O305 MECHANISM AND SYNTHESIS II: Third term.

Chemistry of carbenes, nitrenes and arynes; application of Group III and Transition elements in organic synthesis; selective reactions and protecting groups; asymmetric induction; synthetic design and case study.

O306 HETEROCYCLIC CHEMISTRY AND NATURAL PRODUCTS: Third term.

The chemistry of heterocyclic compounds with emphasis on those of biological significance; the chemistry of representative natural products; bio-organic chemistry.

O307 ORGANIC CHEMICALS IN THE ENVIRONMENT: Third term.

Petrochemicals, air pollution, photochemical smog; production properties, reactions and degradation of pesticides; food additives, plastics and plasticisers; detection and assay of organic chemicals in the environment.

The subjects offered are:

SO03 Organic Chemistry III.

A group C subject. Six units from the above list selected with the approval of the Chairman of Department.

SO83 Organic Chemistry IIIM.

A group C subject. Four units from the above list together with two units or one double-unit from one other Department selected with the approval of the Heads/Chairmen of the Departments concerned.

NOTE: All students intending to take courses in third-year organic chemistry *must* obtain notes issued by the Department concerning suggested combinations of units and *must* make an appointment prior to enrolment with the Chairman of Department or member of staff to discuss their course either during the enrolment period or immediately after the results of the November examinations are made known.

Text-books:

All Units:

Morrison, R. T., and Boyd, R. N., *Organic chemistry*, 3rd edition or Student edition (Allyn and Bacon); OR

Streitweiser, A., and Heathcock, C. H., *Introduction to organic chemistry* (Collier MacMillan International Edition).

Fleming, I., and Williams, D. H., *Spectroscopic methods in organic chemistry* (McGraw-Hill).

Unit O306:

Joule, J. A., and Smith, G. F., *Heterocyclic chemistry* (Van Nostrand Reinhold).

Students should also obtain a suitable set of Molecular Models.

A list of reference books is available from the Department Office.

HONOURS DEGREE.

SO99 Honours Organic Chemistry.

Pre-requisite subjects: A third-year subject in the Department of Organic Chemistry [preferably SO03 Organic Chemistry III]. In exceptional cases students who have passed another group C subject which contains Organic Chemistry Units may be permitted to enter the Honours class.

Candidates are required to devote their full time for an entire academic year to a special course of study and experimental work in the Organic Chemistry Department. The course will normally commence in the first week of February.

The work will include a course of lectures and tutorials on advanced organic chemistry, attendance at a series of seminars and research colloquia, and the investigation of a research problem under the personal guidance and supervision of one or more members of the staff of the Organic Chemistry Department. Candidates will be required to take written examinations and to present a thesis embodying the results of their research work.

Intending Honours candidates should consult the Professor of Organic Chemistry during the preceding year.

ADDITIONAL SUBJECTS.

SC71 Chemistry IM (M.B., B.S.).

SC81 Chemistry ID (B.D.S.).

GENETICS.

Students who intend to take SJ02 Genetics II in second year are advised to take the following first-year subjects: SJ7H Genetics and Human Variation IH, QT7H Statistics IH, SZ71 Biology I and two subjects (or their equivalent) from SB6H Botany IH, SC01 Chemistry I, QA7H Computing IH, QM01 Mathematics I (or QM11 Mathematics IM) and AY01 Psychology I. Other combinations are, however, not excluded.

SJ7H Genetics and Human Variation IH.

A first-year half-subject designed to introduce the principles of human genetics as a means of understanding the diversity and underlying unity of mankind.

There will be one lecture and a tutorial/practical class each week throughout the year.

Lecture topics will include: the nature, causes and maintenance of human variation. Family patterns for rare differences. Human chromosomes. Sex determination and differentiation. Human populations and their genetical structure. Elements of demography. Assortative mating. Consanguinity. Common genetical differences—blood groups, transplantation antigens, colour-blindness, etc. Selection in primitive and civilized communities. Effects of migration and racial mixture. Gene action and inborn errors of metabolism. Polygenic variation (body shape and size, fingerprints, intelligence, etc.). Twin comparisons. Mutation and radiation hazards. Human evolution.

Text-book:

Boomer, W. F., and Cavalli-Sforza, L. L., *Genetics, evolution and man* (Freeman).

SJ02 Genetics II.

Pre-requisites: *either*

(A) A Division I pass, or higher in SJ7H Genetics and Human Variation IH; *or*

(B) A Division I pass in SZ71 Biology I and a pass in a mathematical subject or half-subject from Group A; *or*

(C) In special circumstances a knowledge of biology and mathematics deemed satisfactory by the Chairman of the Department or his nominee.

Three lectures and five hours of practical/tutorial work a week for three terms.

Lecture topic will include: Mendelian inheritance. Probability and the application of statistical methods in genetics. Linkage. Mitosis and meiosis. The chromosome theory of heredity. Structural changes in chromosomes. Recombination systems in micro-organisms. The genetic material. Gene mutation. Gene structure and function. Protein synthesis. Gene regulation. The genetic code. Genetic engineering. Differentiation. Sex determination and differentiation. Polyploidy. Breeding systems in plants. Population genetics and natural selection. Polygenic variation and its particulate basis. Heritability and the response to selection. Inbreeding and outbreeding. Speciation. Genetics and Man—pedigree analysis, chromosomal variants, inborn errors of metabolism, twin comparisons, common genetical differences, genetic counselling.

Text-books:

Strickberger, M. W., *Genetics*, 2nd edition (Macmillan).

*Nuttall, I., and Stewart, J., *Genetics; analysis of population* (Open Univ. Press).

*John, B., and Lewis, K. R., *The meiotic mechanism* (Carolina Biological Supply House).

*Available as paperbacks.

SJ03 Genetics III.

Pre-requisite subject: SJ02 Genetics II at Division I or higher standard.

The Department offers the following course consisting of 3 lectures, 3 tutorials or seminars and an average of 3–6 hours of practical work a week throughout the year.

Estimation and scoring for genetic parameters: computing methods; gene frequency; linkage; heterogeneity.

Quantitative characters: random mating populations; assortative mating; threshold characters; the use of twin data.

Biochemical genetics: gel electrophoresis and human variation; protein polymorphisms and gene/protein relationships; inborn errors and genetic disease.

Somatic cell genetics: the use of cell cultures and somatic cell hybrids in studies of chromosome mapping, genetic complementation, the genetic control of malignancy, cellular differentiation and gene regulation in higher organisms.

Immunogenetics: histocompatibility differences in Man and other species; linkage relationships and disease associations; structure and function of the immunoglobulins and the genes controlling them.

Evolutionary genetics: the synthesis of Darwinism and Mendelism; genetic demography; adaptation and natural selection; transient polymorphisms; balanced polymorphisms and the evolution of super genes; molecular evolution; roles of selection, mutation, and drift in evolution; population structure; speciation.

Chromosome structure and function: analysis of the organisation of DNA in eukaryote chromosomes; the identification and significance of repeated sequences of DNA; the concept of heterochromatin; chromosome puffs as an example of differential gene activity; the replication of DNA in eukaryote chromosomes; the organisation of genetic material in the interphase nucleus.

Gene structure and function: the structure of genes in eukaryotes; the organisation and evolution of gene clusters in prokaryotes and eukaryotes; multi-gene families.

Recombination: the molecular basis for general recombination in eukaryotes and prokaryotes; site specific recombination including prophage insertion and excision, insertion sequences and transposons in prokaryotes and similar phenomena in eukaryotes; the organisation and release of variability; the process of recombination at meiosis; other features such as the breeding system and chromosome repatterning; the concept of the genetic system.

Mutation: the molecular basis for mutation.

Text-books:

Stahl, F. W., *Genetic recombination* (Freeman).

Cavalli-Sforza, L. L., and Bodmer, W. F., *The genetics of human populations* (Freeman).

Fincham, J. R. S., and Day, P. R., *Fungal genetics*, 3rd edition (Blackwell).

*Fisher, R. A., *The genetical theory of natural selection*, 2nd edition (Dover).

Ford, E. B., *Ecological genetics*, 4th edition (Chapman and Hall).

Snell, G. D., and others, *Histocompatibility* (Academic).

Swanson, C. P., and others, *Cytogenetics*, 2nd edition (Prentice-Hall).

*Available as paperbacks.

HONOURS DEGREE.**SJ99 Honours Genetics (B.Sc.).**

Pre-requisite subject: A pass in SJ03 Genetics III at a standard satisfactory to the Chairman of the Department of Genetics.

Candidates are required to give their full attendance for one academic year to a special course of study in the Department of Genetics. Each candidate will have a prescribed reading list and a research investigation to be carried out under the supervision of a member of staff. The course will include participation in seminars and discussions on advanced topics and the writing of essays and literature reviews. Candidates will be required to take a written examination and to present a thesis embodying the results of their research work.

Intending Honours candidates should consult the Chairman of the Department during the previous year so that they can be advised on suitable reading for the Long Vacation.

ADDITIONAL SUBJECTS.**SJ8H Genetics IH(M) (B.D.S., and M.B., B.S.).****SJ89 Honours Genetics (B.Med.Sc.).**

The pre-requisites are passes in SJ02 Genetics II and in the Third-Year Examination in Medicine. Intending candidates should consult the Chairman of the Department of Genetics as early as possible.

SJ79 Honours Genetics (B.Ag.Sc.).**SJ69 Honours Genetics (B.Sc.Dent.).****GEOLOGICAL SCIENCES.**

SG01 Geology I provides a balanced introduction to the geological sciences through lectures and practical work and is the normal pre-requisite for entry to SG02 Geology II. It also serves students in the Faculties of Engineering and Agricultural Science.

A further half-subject SG311 Geology IH(E) is offered for Civil Engineering students and is described in the syllabuses of the Faculty of Engineering.

SG01 Geology I.

There are no formal pre-requisites for SG01 Geology I but a knowledge of Matriculation Chemistry and Physics will be helpful. The course consists of three lectures and three hours practical work a week and one tutorial a fortnight throughout the year. Occasional field excursions form an essential part of the course.

The course deals with the following main fields:

Earth materials: crystal structure and mineralogy, igneous and metamorphic rocks and associated ore deposits; rock weathering and soil development.

Earth structure and dynamics: including global seismicity, gravity, radioactivity and magnetism; sea floor spreading, continental drift and plate tectonics; structural geology and landscape.

Earth history: sediments and sedimentation; the history of life; methods of dating and correlating rock strata.

Earth resources: energy resources including fossil fuels, geothermal and nuclear energy, direct and indirect solar energy; occurrence and origin of mineral resources including minerals for construction, agriculture, manufacturing and chemical industries; mineral exploration and problems of mineral exploitation; atmosphere, oceans and water resources in relation to pollution.

The practical work includes the study of crystals, minerals, rocks and fossils; interpretation of elementary geological maps; geophysical exercises. The practical course thus illustrates and develops the lecture course with reference to Australian examples.

Text-books:

- *Ernst, W. G., *Earth Materials* (Prentice-Hall).
- *LaPorte, L. F., *Ancient environments*, 2nd edition (Prentice-Hall).
- *McAlester, A. L., *The history of life*, 2nd edition (Prentice-Hall).
- *Skinner, B. J., *Earth resources*, 2nd edition (Prentice-Hall).
- *Bennison, G. M., *An introduction to geological structures and maps*, 3rd edition (Edward Arnold).

*Available as paperbacks.

SG02 Geology II.

Pre-requisite subjects: Division I pass or higher in SG01 Geology I. SC01 Chemistry I is not a formal pre-requisite but is strongly recommended and a knowledge equivalent to it will be assumed.

LECTURES.—This course consists of three lectures a week throughout the year as follows:-

Crystallography: The symmetry of crystals and lattices. X-Ray powder diffraction.

Mineralogy: The theory of optical mineralogy. Crystal chemistry of minerals.

Petrology: The characteristics and mode of occurrence of igneous, metamorphic and sedimentary rocks; a study of the accepted classifications of rocks. Elementary thermodynamics of natural systems.

Structural Geology: The geometry and interpretation of geological structures.

Stratigraphy and Sedimentation: Principles, with application to the study of Australian stratigraphy.

Palaeontology: The major groups of skeletonised invertebrates.

LABORATORY WORK.—Not less than six hours a week.

Crystallography: Symmetry of crystals.

Mineralogy: Optical mineralogy; study of minerals in the hand specimen.

Petrology: Identification and classification of rocks; study of typical rocks both in hand specimen and under the microscope.

Structural Geology: Interpretation of geological maps; solving of structural problems by graphical methods. Introduction to photogeological interpretation.

Palaeontology: Introduction to morphology and taxonomy; interpretation of fossil assemblages.

FIELD WORK.—A minimum of ten days will be spent in the field during the year. Excursions to localities of special interest form part of the course.

APPARATUS.—Students need to provide themselves with field equipment of approved pattern.

Text-books:

- *Dana, J. D., *Manual of mineralogy*, 19th edition, revised by C. S. Hurlbut and C. Klein (Wiley).
- *Verhoogen, J., and others, *The earth* (Holt, Rinehart and Winston).
- Nockolds, S. R., and others, *Petrology for students* (C.U.P.).
- *Clarkson, E. N. K., *Invertebrate palaeontology and evolution* (Allen and Unwin).
- Dunbar, C. O., and Rodgers, J., *Principles of stratigraphy* (Wiley).
- *Heinrich, E. W., *Microscopic identification of minerals* (McGraw-Hill).
- *Blatt, H., and others, *Origin of sedimentary rocks* (Prentice-Hall).
- *Hobbs, B., and others, *An outline of structural geology* (Wiley).
- Wood, E. A., *Crystals and light*, 2nd edition (Dover).
- *Wood, B. J., and Fraser, D. G., *Elementary thermodynamics for geologists* (O.U.P.).

*These are also Geology III texts.

SG72 Geophysics II.

[Not offered in 1981.]

Pre-requisite subject: Division I pass or higher in SP01 Physics I (a pass in full or half Mathematic subject in first year is desirable: a student without such a qualification must obtain permission from the Professor of Geophysics or his nominee before enrolling).

The course consists of 3 lectures and 6 hours practical work a week throughout 3 terms of the year.

The course is concerned with the study of the solid state as it relates to the earth. It will be taught by members of the Departments of Chemical Engineering, Economic Geology, Geology, and Physics.

The course is divided into 2 parts.

A. 32 lectures and associated laboratory work. The mechanical and rheological profile of real and idealised materials including an account of crystal structure with special reference to silicate minerals, and the relation of crystal structure to the mechanical properties of solids.

Text-book:

Wyatt, O. H., and Dew-Hughes, D., *Metals, ceramics and polymers* (C.U.P.).

B. 40 lectures and associated laboratory work. Aspects of global geophysics, exploration geophysics and rock mechanics, including the behaviour of rocks and enclosed fluids at normal and elevated temperatures and pressures.

A more detailed syllabus will be available from the Departments of Economic Geology and Physics during the enrolment period.

THIRD-YEAR SUBJECTS IN GEOLOGICAL SCIENCES.

Pre-requisites vary according to the units or subjects taken and are given below.

The Department of Geology and Mineralogy and the Department of Economic Geology offer the following units, each of which consists of about 16 lectures together with about 48 hours' practical work:

G301 STRATIGRAPHY A: Third term.

Principles of stratigraphy and historical geology. Field studies and a project in subsurface stratigraphy will form part of the course.

All students should obtain the chart: van Eysinga, F. W. B., *Geological time table*, 3rd edition (Elsevier)

G302 SEDIMENTOLOGY: First term.

Analysis of modern sedimentary environments. Interpretation of ancient environments and basin analysis. Fieldwork will form part of course.

G303 STRUCTURAL GEOLOGY: Second term.

The nature and interpretation of geological structures. Field studies will form a part of the course.

Text-books:

Hobbs, B. E., Means, W. D., and Williams, P. F., *An outline of structural geology* (Wiley).

Phillips, F. C., *The use of the stereographic projection in structural geology* (Arnold).

G304 IGNEOUS AND METAMORPHIC PETROLOGY A: Second term.

The characteristics and origin of the principal associations of igneous and metamorphic rocks. Field studies will form a part of the course.

Text-books:

Hyndman, D. W., *Petrology of igneous and metamorphic rocks* (McGraw-Hill).

Heinrich, E. W., *Microscopic identification of minerals* (McGraw-Hill); OR

Deer, W. A., and others, *An introduction to the rock forming minerals* (Longmans).

Winkler, H. G. F., *Petrogenesis of metamorphic rocks*, 5th edition (Springer-Verlag).

G305 IGNEOUS AND METAMORPHIC PETROLOGY B: Third term.

The application of theoretical and experimental petrology to natural rock systems. Assumes a knowledge of G304. Field studies will form a part of the course.

Text-books:

Hyndman, D. W., *Petrology of igneous and metamorphic rocks* (McGraw-Hill).

Heinrich, E. W., *Microscopic identification of minerals* (McGraw-Hill); OR

Deer, W. A., and others, *An introduction to the rock forming minerals* (Longmans).

G306 MINERAL DEPOSITS A: Third term.

Metallic and non-metallic mineral deposits formed at the earth's surface: placer and residual deposits, evaporites, laterites, coal, the evolution of kerogen and accumulation of hydrocarbons. Precipitation products of the ocean floor. Stratiform deposits of iron, manganese, copper and uranium. Conditions of surface transport and precipitation.

Text-books:

Lamey, C. A., *Metallic and industrial mineral deposits* (McGraw-Hill).

Smirnov, V. I., *Geology of mineral deposits* (M.I.R. Moscow).

G307 MINERAL DEPOSITS B: Second term.

Mineral deposits requiring hypogene thermal gradients. Kuroko type deposits and their volcanogenic equivalents of the sea floor and orogenic domains (Cu, Pb, Zn, Ag, Au, Hg, Sb). Mississippi Valley type deposits (Pb, Zn, Ba, F). Deposits associated with acid igneous rocks (porphyry coppers, pegmatites, Sn, W, Li, Be), alkaline rocks and carbonatites (Nb, Ta, P) and mafic and ultramafic rocks (Ni, Cr, Pt, Fe, diamonds). Genetic evidence from stable isotopes, trace elements, fluid inclusions and experimental petrology. Field studies will form part of this unit.

Text-books:

Stanton, R. L., *Ore petrology* (McGraw-Hill).

Smirnov, V. I., *Geology of mineral deposits* (M.I.R. Moscow).

G308 STRUCTURAL MINERALOGY: First term.

X-ray structure determination and the relation of atomic structure to physical and chemical properties of minerals.

Text-books:

Evans, R. C., *An introduction to crystal chemistry*, 2nd edition (C.U.P.).

Bragg, W. L., and Claringbull, G. F., *Crystal structures of minerals* (Bell).

Sands, D. E., *Introduction to crystallography* (Benjamin).

G309 GEOCHEMISTRY AND ISOTOPE GEOLOGY: Second term.

Study of geochemical differentiation processes. Isotope geology.

Text-books:

Mason, B., and Moore, B., *Principles of geochemistry*, 4th edition (Wiley).

Faure, G., *Principles of isotope geology*, (Wiley).

G310 GENERAL PALAEOONTOLOGY AND BIOSTRATIGRAPHY: First term.

A survey of the fossil record and its biohistorical and geohistorical meaning,

Text-books:

Clarkson, E. N. K., *Invertebrate palaeontology and evolution* (Allen and Unwin).

Raup, D. M., and Stanley, S. M., *Principles of paleontology*, 2nd edition (Freeman).

G311 PALAEOONTOLOGY A: Second term.

Skeletonised protists and lower invertebrates, evolution, taxonomy and distribution.

G312 PALAEOONTOLOGY B: Third term.

Higher invertebrates and vertebrates; evolution, taxonomy and distribution.

Text-book:

Colbert, E. H., *Evolution of the vertebrates*, 2nd edition (Wiley).

G313 GEOPHYSICS A: First term.

This course covers the design, conduct and interpretation of geophysical surveys used for petroleum and mineral exploration and in applied geology. Field studies will form part of this Unit.

Text-books:

Telford, W. M., and others, *Applied geophysics* (C.U.P.).

G314 GEOPHYSICS B: Third term.

The basis for the interpretation of gravity, magnetic and seismic surveys will be covered in this course.

Text-book:

Telford, W. M., and others, *Applied geophysics* (C.U.P.).

G315 MINING GEOLOGY: Third term.

The role of size, shape and location of mineralised bodies in the decision making process of mine development and exploitation. The economics of exploitation. Mining geology.

Text-book:

Peters, W. C., *Exploration, mining and geology* (Wiley).

The subjects offered are:

SG03 Geology III.

(A Group C subject.) Units G301, G302, G303, G304, G305 and G310. Greater flexibility in the choice of units is afforded by SG83 Geology IIIM and other IIIM subjects.

SG23 Geology and Economic Geology IIIA.

(A Group C subject.) Units G306, G308, G309, G311, G312 and G313.

SG33 Geology and Economic Geology IIIB.

(A Group C subject.) Units G306, G307, G308, G309, G313 and G315.

SG73 Geophysics III.

(A Group C subject.) Units G313 and G314 together with four units, approved by the Professor of Geophysics or his nominee, from the Departments of Mathematics and Physics.

SG13 Palaeontology III.

(A Group E subject.) Units G311 and G312. SG13 Palaeontology III may be taken together with SJ02 Genetics II *or* SB02 Botany II *or* SZ02 Zoology II, in lieu of a Group C subject.

SG83 Geology IIIM.

(A Group C subject.) With approval of the Heads/Chairmen of Departments concerned, a combination of four units chosen from the above complete list (two terms' work) together with two units or one double unit (one term's work) in another department. Pre-requisites will depend on the units approved.

Subject Combinations and Pre-requisites.

Students majoring in the Geological Sciences will normally take SG03 Geology III and *either* SG23 Geology and Economic Geology IIIA *or* SG33 Geology and Economic Geology IIIB *or* SG73 Geophysics III *or* SG13 Palaeontology III, but any one of the above subjects can be taken in combination with other subjects offered by the Departments of Geology and Mineralogy and Economic Geology *or* with subjects offered by other departments providing the following pre-requisites are satisfied:

Pre-requisite subjects for SG03 Geology III and for SG33 Geology and Economic Geology IIIB: SG02 Geology II at Division I pass or higher standard. There are no other formal pre-requisites but QM01 Mathematics I, SC01 Chemistry I and SP01 Physics I are highly desirable.

Pre-requisite subjects for SG73 Geophysics III: SP01 Physics I and QN22 Applied Mathematics IIA or QN12 Applied Mathematics IIB at Division I level or higher standard. Other second-year subjects from the Faculty of Mathematical Sciences may be accepted. A working knowledge of computing techniques is expected. The course assumes a knowledge of some of the topics covered in SG01 Geology I and students without a pass at Division I level or higher in this subject must obtain the permission of the Professor of Geophysics before enrolling. SG72 Geophysics II is not a pre-requisite but provides useful additional background to the course.

Pre-requisite subjects for SG23 Geology and Economic Geology IIIA and for SG13 Palaeontology III: SG02 Geology II and SZ71 Biology I or SZ01 Zoology I at Division I or higher standard and unit G310 above (General palaeontology and biostratigraphy). SC01 Chemistry I is also highly desirable.

The pre-requisites for individual units will usually be the same as those for the subjects in which they occur but in special circumstances exemption from certain pre-requisites may be granted on application to the Chairman of the Department of Geology or his nominee.

HONOURS DEGREE.

SG99 Honours Geology.

Pre-requisite subjects: Passes satisfactory to the Professors concerned in any third-year subject, other than Geophysics, offered by the Departments of Economic Geology and Geology and Mineralogy together with a second subject in Geological Sciences or a subject offered by the Departments of Pure Mathematics, Applied Mathematics, Statistics, Physics, Physical and Inorganic Chemistry or Organic Chemistry.

In general it is expected that students proceeding to Honours in Geology will have passed SG03 Geology III at a level acceptable to the Professors concerned.

Candidates will be required to attend several courses from a number which will be given in specialised fields of geology and economic geology including tectonics, stratigraphy, structure, geophysics, geochemistry and palaeontology. In addition, candidates will undertake supervised individual projects involving one or more of these fields. Special courses of reading and laboratory studies will be laid down and each candidate will be required to give all the time not required for lectures or in the field to work in the laboratory. Candidates may be required to satisfy the examiners that they have a reading knowledge of French, German or Russian. They will also be required to contribute to a series of seminars.

Candidates must apply, before the end of the year preceding that in which they wish to enrol, to the Professor concerned for approval of their proposed courses of study.

SG89 Honours Geophysics.

Pre-requisites subjects: Passes satisfactory to the Professor of Geophysics in SG73 Geophysics III and one of the other third-year subjects offered by the Departments of Economic Geology and Geology and Mineralogy, or a third-year subject offered by the Departments of Applied Mathematics or Physics. Students with a different background of third-year courses may be accepted at the discretion of the Professor of Geophysics.

Candidates will be required to attend several courses from a number which will be given in specialised fields of geology, economic geology, mathematics and physics. Honours students may, after consultation with the Head/Chairman of the appropriate department, also be required to take some third-year units in the Departments of Geology, Applied Mathematics or Physics, which they did not take in third year. In addition, candidates will undertake supervised individual projects: possible topics should be discussed with the Professor of Geophysics before the end of the preceding year. Special courses of reading and laboratory studies will be laid down and each candidate will be required to give all the time not required for lectures or in the field to work in the laboratory. Candidates may be required to satisfy the examiners that they have a reading knowledge of French, German or Russian. They will also be required to contribute to a series of seminars.

Candidates must apply, before the end of the year preceding that in which they wish to enrol, to the Professor of Geophysics for approval of their proposed courses of study.

ADDITIONAL SUBJECT.

SG3H Geology IH(E) (B.E.).

MICROBIOLOGY AND IMMUNOLOGY.

SK32 Microbiology and Immunology II.

Pre-requisite subjects: A pass at Division I or higher standard in SZ71 Biology I. SC01 Chemistry I is not a formal pre-requisite but it is strongly recommended.

For appreciation of the subject, concurrent study of SY02 Biochemistry II would be helpful but is not essential.

A course of three lectures and six hours practical and tutorial work each week. The course is an introduction to microbiology and immunology.

The microbiology section in first and second terms will place emphasis on bacteria including the blue-green algae, and on viruses. The course illustrates that while bacteria share with other forms of life many common features of structure, development and function, they also differ in some fundamental ways. The bacterial and animal viruses are used to illustrate the unique characteristics and diversity of viruses. Topics to be covered include: characteristics and anatomy of bacterial cells, characteristics of protists; antibiotics; genetic mutation and genetic mechanisms of bacteria, biology of plasmids, biology and ecology of various bacteria and viruses, bacteria in disease.

The aim of the immunology section in third term is to acquaint the student with the basic principles and concepts of immunological mechanisms whereby mature vertebrates resist invasion by bacteria, viruses and foreign tissue cells. Topics to be covered include; antigen-antibody reactions; induction of the humoral immune response; immunological tolerance; tissues and cells involved in the immune response; ontogeny of the immune response; natural history of infectious disease; properties and structure of immunoglobulins.

Text-books:

Brock, T. D., *Biology of micro-organisms*, 3rd edition (Prentice-Hall).

Davis, B. D., and others, *Microbiology*, 2nd edition (Harper and Row).

Herbert, W. J., and Wilkinson, P. C., *A dictionary of immunology*, 2nd edition (Blackwell).

SK33 Microbiology and Immunology III.

A group C subject.

Pre-requisite subject: SK32 Microbiology and Immunology II at Division I or higher standard.

The course consists of three lectures and two days practical a week: tutorials are arranged within the two days allocated for practical work.

The course will develop in detail various aspects of bacterial function, bacterial and animal virology, and immunology. The molecular biology of bacteria and viruses will receive particular attention. The topics covered include: bacterial movement, chemotaxis; chemistry of unique cell surface components; uptake of metabolites; organisation of the bacterial chromosome; cell division; mechanisms of bacterial and bacteriophage recombination, structure and evolution of plasmids; genetic engineering; microbes in industry; microbial ecology; animal viruses; cellular and humoral mechanisms of immunity to animal viruses; mechanisms of immunity to enteric infections, intracellular and extracellular bacterial parasites and protozoan and metazoan parasites; immunity to tumours; genetic control of immune responsiveness; cellular cooperation in induction of immune responses and the role of the major histocompatibility locus in these processes; cellular aspects of immunoglobulins; recognition of self and non-self in invertebrates; immune deficiency states.

The microbiology and immunology components of the course occupy approximately the same amount of time.

Text-books:

As for SK32 Microbiology and Immunology II, with an additional textbook on Immunology to be announced.

SK03 Microbiology and Immunology III (Old Course).

Available in 1981 only, if necessary, for repeating students.

For syllabus *see* Calendar for 1980, page 975.

HONOURS DEGREE.

SK99 Honours Microbiology or Immunology.

Pre-requisite subject: SK33 Microbiology and Immunology III or the old course SK03 Microbiology and Immunology III are recommended pre-requisites. Students taking other suitable science disciplines will, however, be considered.

An intending candidate should consult a member of the staff of the Microbiology and Immunology department some time during the year preceding the Honours year.

Candidates are required to give their full attendance for an entire academic year to a special course of study and laboratory work, and to participate in experimental work of a research character under the direction and supervision of staff members of the Department. A course in reading, which should be commenced during the long vacation prior to the Honours year, will be provided by the Department of Microbiology and Immunology.

ADDITIONAL SUBJECTS.

MP03 Biology of Disease.

(For M.B., B.S. Third-Year Examination.)

SK74 Microbiology and Immunology.

(For M.B., B.S. Fourth-Year Examination—MX74.)

SK79 Honours Microbiology (B.Sc.Dent.).

SK89 Honours Microbiology (B.Med.Sc.).

PHARMACOLOGY.

The Department of Clinical and Experimental Pharmacology offers courses at third-year and Honours level which deal with the nature of drug action in biological systems.

THIRD-YEAR SUBJECTS IN PHARMACOLOGY.

Pre-requisite subject: SS02 Physiology II at Division I pass or higher standard.

The Department offers three double units, each of which comprises 26 lectures and nine hours practical work a week.

R301 PRINCIPLES OF PHARMACOLOGY AND TOXICOLOGY: First term.

The nature and quantitation of drug action. The pharmacokinetic principles which determine the intensity, duration and variability of drug effect. The toxicology of therapeutic and environmental chemicals. The development and testing of new drugs.

R302 SYSTEMATIC PHARMACOLOGY: Second term.

A survey of the actions of drugs on the autonomic nervous system, cardiovascular, renal, hepatic, gastro-intestinal, respiratory and reproductive systems.

R303 NEUROPHARMACOLOGY: Third term.

A survey of the action of drugs on the central nervous system, with particular reference to behavioural effects, and the problems of drug dependence.

The subjects offered are:

MR43 Pharmacology III.

A group C subject. The above three double units (R301, R302 and R303).

MR53 Pharmacology IIIM.

With the approval of the Chairmen/Heads of Departments concerned, a combination of any two double units above, together with two units or one double unit from another unitesed group C subject.

Text-book:

Goodman, L. S., and Gilman, A., *The pharmacological basis of therapeutics*, 5th edition (Macmillan).

PHARMACOLOGY FOR THE HONOURS DEGREE OF B.Sc.**MR89 Honours Pharmacology (B.Sc.).**

Pre-requisite subject: MR43 Pharmacology III, or MR53 Pharmacology IIIM at a standard acceptable to the Chairman of the Department. Intending candidates should consult the Chairman during the final year of their course.

Candidates are required to give their full attendance for an entire academic year to a special course of study and experimental work in the pharmacology laboratory, and to participate in a research project under the direction of a member of the academic staff. The results of the research project are to be embodied in a thesis in a form specified by the Chairman of the Department.

PHYSICS.**INTRODUCTORY NOTES.**

The Department of Physics offers the following courses:

- First Year: SP01 Physics I, SP8H Astronomy IH (a half-subject), SP7H Medical Physics (for the degrees of B.D.S. and M.B., B.S.), and SP9H Physics, Man and Society IH (a half-subject for the degree of B.A., B.Ec. and B.Sc. in Maths, Science).
- Second Year: SP02 Physics II.
- Third Year: SP03 Physics III and SP83 Physics IIIM.
- Fourth Year: SP99 Honours Physics.

An adequate mathematical preparation is needed for the study of physics. Students intending to continue with physics at second- and third-year levels are advised to take QM01 Mathematics I (or QMII Mathematics IM) with SP01 Physics I in their first-year, and either QN12 Applied Mathematics IIB or QN22 Applied Mathematics IIA (or another second-year mathematics subject offered by the Departments of Pure and Applied Mathematics) with SP02 Physics II in their second-year. Attention is drawn to the pre-requisite subjects for admission to some courses as prescribed in the syllabuses below.

In the third year 15 unit courses are offered by the Department of Physics covering a wide range of topics. Students taking SP03 Physics III choose six of these units. Four further Physics units will be taken by a student who in addition enrolls in SP83 Physics IIIM. In general students may offer from ten to two Physics units depending on whether they are enrolled in SP03 Physics III and SP83 Physics IIIM, SP03 Physics III plus two additional units as part of an "M" type subject in another department, SP03 Physics III alone, SP83 Physics IIIM, or just two physics units as part of an "M" type subject.

In the Honours year, a further range of unit courses is offered, some of which are related to the research interests of the Department. Honours students will also take some of the third-year units which they did not take in third year.

All physics students should refer to the Laboratory rules, which are printed in this volume of the Calendar. For all laboratory classes students must provide stiff-covered practical notebooks.

SP8H Astronomy IH.

There is no formal pre-requisite for SP8H Astronomy IH. The course comprises three lectures and one tutorial a fortnight throughout the year, plus four three-hour laboratory or observational sessions a term. Evening observations form a major part of the practical work in the first term.

The course will include the following topics:

Historical introduction. Examples of ancient and modern astronomical instruments.

The Solar System, planet Earth, Earth-Moon System, distance scales within the Solar System, the Sun, planets, planetary motion, space probes, eclipses, meteors, asteroids and comets.

Stars, stellar distances, types of stars, variable stars, star clusters, the Milky Way, stellar evolution.

Galaxies, galactic distance scale, radioastronomy, space astronomy, cosmology.

Text-books:

Abell, G. O., *Exploration of the universe*, 3rd edition (Holt, Rinehart and Winston); OR

Brandt, J. C., and Maran, S. P., *New horizons in astronomy*, 2nd edition (Freeman); OR

Jastrow, R., and Thompson, M. H., *Astronomy: fundamentals and frontiers*, 3rd edition (Wiley).

SP01 Physics I.

A good knowledge of Matriculation Physics and Matriculation Mathematics I and II (or Matriculation Mathematics IS) will be assumed and should therefore be possessed by all students who hope to pass SP01 Physics I.

The course comprises three lectures, one tutorial and three hours of practical work a week.

The course is given in three sections:

1. MECHANICS AND THE STRUCTURE OF MATTER: First term.

Classical mechanics, gravitation, kinetic theory, thermodynamics, the bulk properties of matter and atomic structure.

2. OSCILLATIONS AND ELECTROMAGNETISM: Second term.

Forced and natural oscillations, electrostatics, electromagnetic effects, alternating currents, particles and fields.

3. WAVES, RADIATION AND RELATIVITY: Third term.

Elastic waves, electromagnetic waves, dispersion, interference, diffraction, the velocity of light, special relativity and introductory quantum physics.

Text-books:

Halliday, D., and Resnick, R., *Physics*, 3rd edition (Wiley).

Resnick, R., *Basic concepts in relativity and early quantum theory* (Wiley).

SP02 Physics II.

Pre-requisite subjects: SP01 Physics I at Division I or higher standard and QM01 Mathematics I or QM11 Mathematics IM.

The course comprises three lectures, one tutorial and six hours practical work a week.

The lecture topics are:

A. ELECTROMAGNETISM.

Circuit theory: analysis of D.C. and A.C. circuits with applications. The electromagnetic field.

B. OPTICS.

Geometrical optics, interference, polarisation, refractive index, crystal optics.

C. CLASSICAL MECHANICS.

Newtonian mechanics: conservation laws, statics, friction, pseudo forces, the two-body problem, rigid body motion, normal modes.

Fluid mechanics: viscosity, hydrostatics, Bernoulli's theorem, laminar and turbulent flow, Reynold's number, boundary layers.

D. SPECIAL RELATIVITY.

Nature of space-time, four-vectors; energy and momentum conservation.

E. QUANTUM MECHANICS.

Introduction to wave mechanics. The Schrödinger equation. Interpretation of the wave function. Energy quantisation. Solutions of the one-dimensional Schrödinger equation for simple potentials. Reflection at potential step. Tunnelling.

F. ATOMIC, NUCLEAR AND SOLID STATE PHYSICS.

Atomic and nuclear physics: properties and interaction of radiation, atoms and nuclei. Electrons in solids: free electron and band model of solids.

Text-books:

Lorrain, P., and Corson, D. R., *Electromagnetism* (Freeman).

Eisberg, R., and Resnick, R., *Quantum physics of atoms, molecules, solids, nuclei, and particles*. (Wiley).

Brophy, J. J., *Basic electronics for scientists* (McGraw-Hill).

Taylor, E. F., and Wheeler, J. A., *Spacetime physics* (Freeman).

Hecht, E., and Zajac, A., *Optics* (Addison-Wesley).

Syngé, J. L., and Griffith, B. A., *Principles of mechanics*, 3rd edition (McGraw-Hill).

THIRD-YEAR SUBJECTS IN PHYSICS.

Pre-requisite subjects: SP02 Physics II at Division I or higher standard and either QN12 Applied Mathematics IIB or QN22 Applied Mathematics IIA or another second-year mathematics subject offered by the Departments of Pure and Applied Mathematics.

The Department offers the following units, each of which consists of about 16 lectures and 36 hours of laboratory work.

A pamphlet giving information on timetables of unit courses will be available from the Department during the enrolment period.

P301 ELECTROMAGNETISM.

A consistent description of electric and magnetic fields, due to volume distributions of charges, which leads to Maxwell's equations. Electromagnetic waves in free space. The electromagnetic field due to a moving point charge via special relativity. Fields in material media. Poynting's theorem.

Text and Reference books:

- Lorrain, P., and Corson, D., *Electromagnetic fields and waves*, 2nd edition (Freeman).
Cook, D. M., *The theory of the electromagnetic field* (Prentice-Hall).
Feynman, R. P., *Lectures on physics*, vol. II (Addison-Wesley).
Purcell, E. M., *Electricity and magnetism*, Berkeley physics course, vol. 2 (McGraw-Hill).
Robinson, F. N. H., *Electromagnetism* (O.U.P.).
Robinson, F. N. H., *Macroscopic electromagnetism* (Pergamon).
French, A. P., *Special relativity* (Norton).

P302 ELECTROMAGNETIC WAVES.

Propagation of electromagnetic waves on transmission lines and in wave guides; resonant cavities, radiation density. Propagation, scattering and absorption of electromagnetic waves in weakly ionised gases; ionospheric propagation, effect of magnetic field. Reflection and transmission of electromagnetic waves at a dielectric interface; Fresnel equations, evanescent waves, surface waves. Radiation by accelerated charges.

Text-book:

- Ramo, S., and others, *Fields and waves in communication electronics* (Wiley).

P303 QUANTUM MECHANICS.

Review of the fundamentals of Schrödinger wave mechanics. Orthogonality, completeness, degeneracy and parity of energy eigenfunctions. The simple harmonic oscillator. First order non-degenerate time independent perturbation theory. Time dependent perturbation theory, including transition rates for harmonic perturbations. Variation method for ground state energy. Central force motion. The hydrogen atom. Introduction to the general formulation of quantum mechanics.

Text-books:

- Eisberg, R., *Fundamentals of modern physics* (Wiley).
Sherwin, C., *Introduction to quantum mechanics* (Holt, Rinehart and Winston).

P304 OPTICS.

Kirchhoff-Helmholtz diffraction integral, Fresnel and Fraunhofer diffraction, gratings, Fourier methods, Abbe's theory, coherence, spatial filtering, holography and other related topics in modern optics.

Text-book:

- Hecht, E., and Zajac, A., *Optics* (Addison-Wesley).

P305 STATISTICAL MECHANICS.

This course introduces concepts and relationships which are essential for the understanding of both classical and quantum statistical mechanics. Topics covered include the classical thermodynamic laws and their application, postulates of statistical mechanics and the statistical interpretation of thermodynamics. The methods of statistical mechanics are then used to develop the statistics for Bose-Einstein, Fermi-Dirac and photon gases. Selected topics showing the application of these laws to the field of low temperature physics, electrical and thermal properties of matter, and the radiation field will be discussed.

Text-books:

- Reif, F., *Fundamentals of statistical and thermal physics* (McGraw-Hill).
Kittel, C., and Kroemer, H., *Thermal physics*, 2nd edition (Freeman).

P306 ATOMIC PHYSICS.

An introduction to atomic structure based on the interpretation of atomic spectra.

Text-books:

- Eisberg, R. M., *Fundamentals of modern physics* (Wiley).
Herzberg, G., *Atomic spectra and atomic structure* (Dover).

P307 NUCLEAR PHYSICS.

The course aims to give a broad coverage of the experimental and basic theoretical aspects of nuclear physics. It stresses nuclear models and the diversity of phenomena involved in nuclear physics. The unit is intended also to widen the student's knowledge and appreciation of quantum phenomena.

Text-book:

Enge, H. A., *Introduction to nuclear physics* (Addison-Wesley, student edition).

P308 SOLID STATE PHYSICS.

Crystal structure, reciprocal lattice. Crystal binding. Lattice vibrations. Dielectric properties. Free electron gas. Electrons in periodic lattice. Energy bands. Semiconductors.

Text-book:

Kittel, C., *Introduction to solid state physics*, 5th edition (Wiley).

(It is advisable for students taking this unit to take unit P303.)

P309 RELATIVITY.

This course is common with the Mathematical Physics unit F304.

P310 ASTROPHYSICS.

This course aims to provide an introduction to the basic ideas of astrophysics and stellar astronomy, including discussions of stellar evolution, stellar composition and radiation, the interstellar medium and galactic structure.

Text-book:

Swihart, T. L., *Astrophysics and stellar astronomy* (Wiley).

P311 ATMOSPHERIC PHYSICS.

An introduction to physical and dynamical meteorology. Cloud physics; solar and terrestrial radiation and heat balance; the wind—equations of motion, etc., approximations and applications; turbulence, diffusion of pollutants; general circulation; climatic change.

Recommended reading:

Hess, S. L., *Introduction to theoretical meteorology* (Holt).

Haltiner, G. J., and Martin, F. L., *Dynamical and physical meteorology* (McGraw-Hill).

Holton, J. R., *An introduction to dynamic meteorology* (Academic Press).

P312 PLANETARY INTERIORS.

Elastic wave propagation; the outer layers of the earth; crustal reflection and refraction techniques (explosion seismology); evidence of large scale crustal movements. Detection of elastic waves and location of earthquakes. Travel time curves and structure of the deep interior of the earth; density and composition. The moon and the other planets.

Unit P312 may not be included as part of any third year subject by students who wish to count SG72 Geophysics II towards their degree.

Text-books:

Stacey, F. D., *Physics of the earth* (Wiley).

Garland, G. D., *Introduction to geophysics* (Saunders).

P313 HISTORY AND PHILOSOPHY OF PHYSICS.

The topics to be discussed will be selected from: statistical physics and the history of the theory of heat; history and philosophy of special relativity; philosophy and interpretation of quantum mechanics; history of mechanics; history of theories of light.

P314 ENVIRONMENTAL PHYSICS.

Study of the physics of an inhabited planet. The quiet and active sun. Solar radiation and the earth's atmosphere. The role of ozone, carbon dioxide and minor constituents. Climate variability. Palaeoclimates. Local and global effects of industrial activity. Remote sensing of the environment. Energy resources.

P315 BIOPHYSICS.

Biological structure and function. Microscopy and X-ray diffraction. Atoms, molecules and bonding. Crystals, liquids and monolayers. Proteins and nucleic acids. Large molecules in solution. Topics chosen from: membranes, transport phenomena, muscle, ionising radiation. It is emphasised that familiarity with first-year mathematics will be assumed.

This unit will be presented in this form for the last time in 1981.

LABORATORY WORK IN THIRD YEAR:

The work includes formal courses in Laboratory Techniques and Electronics. In addition research type projects are carried out under a supervisor who is usually attached to one of the research groups. Students undertake laboratory work in proportion to the number of lecture units to be counted.

The subjects offered are:

SP03 Physics III.

A group C subject. Six units, including P301, P303 and P305, but not more than two from units P310-P315. The Mathematical Physics unit F301 Mathematical Methods may be taken in place of one of the units P302, P304, P306-P315 above. A minimum of nine hours' laboratory work each week is required.

SP83 Physics IIIM.

A group C subject. Four units from the list above with two units from other Departments selected with the approval of the Heads/Chairmen of the Departments concerned. With the approval of the Heads/Chairmen of Departments, a unit in Mathematical Physics may be taken in place of one of the units listed above. Two terms of laboratory work with a minimum of nine hours a week are required.

QF03 Theoretical Physics III.

This is a third-year Science subject, offered by the Mathematical Physics Department and may be taken with either SP03 Physics III or SP83 Physics IIIM. For syllabus see under Faculty of Mathematical Sciences.

HONOURS DEGREE.

SP99 Honours Physics.

The Honours course will normally include courses of lectures on quantum mechanics, electromagnetism, statistical mechanics, nuclear physics, solid state physics, Fourier methods, atmospheric physics, astrophysics, and atomic and molecular physics, but not all topics will necessarily be offered every year. Honours students will be required to take at least four Honours courses from a list of options, and they will also be required to take some third-year units which they did not take in third year. Full details may be obtained on application to the Chairman of the Department. Students also carry out a research project, on which they submit a report.

Normal pre-requisites for Honours Physics are a pass in SP03 Physics III at a standard satisfactory to the Chairman of the Department of Physics, together with a pass in SP83 Physics IIIM, or QF03 Theoretical Physics III, or QN03 Applied Mathematics III, or any other group C subject.

ADDITIONAL SUBJECTS.**SP7H Medical Physics (B.D.S., and M.B., B.S.).****SP9H Physics, Man and Society IH.**
(A group A Arts half-subject.)**PHYSIOLOGY.**

Physiology is a subject that can be taken in combination with a variety of physical, biological and mathematical subjects.

SS02 Physiology II.

Pre-requisite subjects: A pass at Division I or higher standard in SZ71 Biology I (or SZ01 Zoology I) and a pass in SC01 Chemistry I. The course consists of three lectures and six hours practical work a week throughout the three terms of the year.

GENERAL ANATOMY AND HISTOLOGY:

The course comprises approximately 35 lectures and 81 hours practical work in general anatomy, histology of tissues and organs, and cytology, with emphasis on the relationship of structure to function.

Slides and microscopes will be provided.

PHYSIOLOGY:

The course comprises approximately 46 lectures and 81 hours practical work dealing with the function of the principal mammalian tissues, organs and systems, together with hormonal and neural integration of the organism.

Text-books:*For Histology:*

Junqueira, L. C., and others, *Basic histology*, 2nd edition (Lange).

Atlas (optional): Reith, E. J., and Ross, M. H., *Atlas of descriptive histology*, 3rd edition (Harper).

For Physiology:

Vander, A. J., and others, *Human physiology*, 2nd edition (McGraw-Hill).

THIRD-YEAR SUBJECTS IN PHYSIOLOGY.

Pre-requisite subject: SS02 Physiology II at Division I pass or higher standard. Students taking Units in third year must nominate their units at the time of enrolment and have them approved by the Chairman of the Department of Physiology.

The Department offers three double units, each of which comprises three lectures a week and nine hours' practical work a week for one term:

S301 SYSTEMATIC NEUROPHYSIOLOGY: Term 1.

Somaesthetics, special senses, and the motor system. Sleep, consciousness, the limbic system, memory.

S302 CELLULAR NEUROPHYSIOLOGY AND ENDOCRINOLOGY: Term 2.

In co-operation with the Department of Obstetrics and Gynaecology.

Membrane electrical properties and membrane potentials. Ionic fluxes, action potentials, synaptic mechanisms. Endocrine systems, organisation and control. Hormones, target cell receptors and post-receptor response. Regulation of hormone production and organ responses.

S303 CARDIOVASCULAR AND RENAL PHYSIOLOGY: Term 3.

Physiology and biophysics of the circulation. Kidney and body fluids.

The subjects offered are:

SS03 Physiology III.

A group C subject consisting of the three double units listed above.

SS83 Physiology IIIM.

A group C subject. With the approval of Heads/Chairmen of Departments concerned, a combination of two double units from the above list, together with two units or one double unit (one term's work) in another department.

Text-books:

Double unit: S301.

Noback, C. R., and Demarest, R. J., *The human nervous system*, 2nd edition (McGraw-Hill).

Double unit: S302.

Kuffler, S. W., and Nicholls, J. G., *From neuron to brain* (Sinauer).

Williams, R. H. (ed.), *Textbook of endocrinology*, 5th edition (Saunders).

Double unit: S303.

Berne, R. M., and Levy, M. N., *Cardiovascular physiology*, 3rd edition (C. V. Mosby & Co.).

Vander, A. J., *Renal physiology*, 2nd edition (McGraw-Hill).

HONOURS DEGREE.

SS99 Honours Physiology (B.Sc.).

Pre-requisite subjects: SS03 Physiology III or SS83 Physiology IIIM.

The course extends over three terms.

Candidates are required to give their full attendance for an entire academic year to a special course of study and laboratory work in the physiology laboratory, and to participate in experimental work of a research character under the direction and supervision of the Chairman of the Department of Physiology. A course in reading, which should be commenced during the long vacation prior to the Honours year, will be published in the Department of Physiology.

ADDITIONAL SUBJECTS.

SS12 Human Physiology IIMB (M.B., B.S.).

SS13 Human Physiology IIIMB (M.B., B.S.).

Applied Physiology.

(For M.B., B.S. Fourth-Year Examination—MX74.)

SS69 Honours Physiology (B.Med.Sc.).

SS22 Human Physiology IID (B.D.S.).

SS23 Human Physiology IIID (B.D.S.).

SS39 Honours Physiology (B.Sc.Dent.).

PSYCHOLOGY.

(FOR THE DEGREE OF BACHELOR OF SCIENCE)

In 1981, the following Psychology courses will be offered in the Faculty of Science:

AY01 Psychology I; AY02 Psychology II; AY23 Psychology III.

The pre-requisite for AY02 Psychology II will be a Division I or higher level pass in AY2H Psychology IIIH(B) are not available to Science students. However the Faculty of Psychology II.

Third-year Psychology is organised on a Unit system. The optional single Units are arranged in three groups (A, B, and C). Four Units must be undertaken with one Unit coming from each Group. There is, in addition, the compulsory double Unit Y791 Methodology, Practical Work and Statistics. Each optional single Unit consists of 12 lectures and 6 tutorials, and is assessed either by a three-hour written examination or by an essay. Part of the double Unit, Y791, consists of 36 hours of class work in Methodology and Statistics, made up of lectures, workshops and tutorials. This part will be assessed by a three-hour examination, for which half of the marks for the Unit will be available. The other part of the Unit, Practical Work, will be assessed on the basis of reports (each of about 3000 words in length) of work in three practicals to be selected from the range of exercises offered each year.

Units are combined to form the subject AY23 Psychology III or the half-subjects AY1H Psychology IIIH(A) and AY2H Psychology IIIH(B). AY1H Psychology IIIH(A) and AY2H Psychology IIIH(B) are not available to Science students. However the Faculty of Science may, in some cases, approve Science students taking AY23 Psychology III over 2 years. A Psychology double Unit for a Science IIIM subject may be the proposed double Unit, but any other two single Units will be available. In such a case, some practical work would be required which would be determined in consultation with the Chairman of the major department.

Full details of syllabuses for these subjects may be found under the degree of B.A. in the Faculty of Arts.

HONOURS DEGREE OF B.Sc.

AY89 Honours Psychology (B.Sc.).

Pre-requisite subjects: AY01 Psychology I, AY02 Psychology II and AY23 Psychology III, including a pass in the unit Y774 Psychological Statistics.

Candidates are required to give their full attendance for an entire academic year to a special course of study in the psychological laboratory. The course will include lectures and discussion on advanced topics. It will also involve the writing of a substantial essay and the presentation of a dissertation embodying the results of, and a survey of the literature relevant to, a research investigation carried out under the supervision of a member of the staff of the Department.

SOCIAL BIOLOGY.

(DOUBLE-UNIT OR GROUP E SUBJECT FOR THE DEGREE OF
BACHELOR OF SCIENCE)

UNIT J333 SOCIAL BIOLOGY

and

SX33 Social Biology.

(To be offered in 1981 subject to the availability of staff.)

The formal pre-requisites are SJ7H Genetics and Human Variation IH or SJ02 Genetics II and a knowledge of statistics which may be obtained through QT7H Statistics IH or AY02 Psychology II or SJ02 Genetics II or an acceptable mathematical subject. But as the course is intended to investigate various genetical, physiological and medical models of human attributes and behaviour, and in many cases compare them with socially derived models, a background in areas of both the social and biological sciences will clearly be valuable. Students who have taken second-year subjects in these areas will find the course particularly useful.

J333 Social Biology is equivalent to one-third of a third-year subject and can be presented as a double-unit as part of MF53 Pharmacology IIIM, SS83 Physiology IIIM, SZ83 Zoology IIIM or, with permission of the appropriate chairman, as part of any other IIIM subject. It may be presented as part of only one subject. The course is identical to the half-subject SJ3H Social Biology IIIM available to Arts students but Science students will complete appropriately less tutorial and assignment work.

SX33 Social Biology III, identical to the double-unit J333 may be presented as a Group E subject by science students, in which case it is to be taken in conjunction with an approved second-year Arts subject. SX33 Social Biology III may not be taken if J333 Social Biology is being presented as a component of a third-year Science subject.

There will be one lecture and one tutorial each week throughout the year for both J333 and SX33. The course is identical to, and is taken with the half-subject SJ3H Social Biology IIIM available to Arts students. There is an appropriately lower amount of tutorial and assignment work for Science students.

The course will investigate and compare the past, present and possible future biological and social evolution of man, paying particular attention to the genetic and social variability present in the human species which is the basic raw material of this evolution. The genesis of certain social problems will be discussed and the relevance or otherwise of biology to their understanding and possible alleviation will be examined. The particular social problems to be examined include race and race differences, social stratification, the heritability of intelligence and scholastic ability, social and antisocial behaviours, aspects of eugenics and genetic engineering, and the biosocial consequences of man's changing environment.

Preliminary reading:

Pringle, J. W. S. (ed.), *Biology and the human sciences* (O.U.P.).

Fuller, W. (ed.), *The social impact of modern biology* (Routledge and Kegan Paul).

Berger, P. L., *Invitation to sociology* (Pelican).

Text-books:

Dobzhansky, Th., *Mankind evolving* (Yale U.P.).

Bodmer, W. F., and Cavalli-Sforza, L. L., *Genetics, evolution and man* (Freeman).

Reynolds, V., *The biology of human action* (Freeman).

HONOURS DEGREE.

Subject to the adequacy of existing resources, there will be opportunity for students to undertake studies leading to an Honours degree in which Social Biology will form a component part. Students will normally be in one of the departments which allow Social Biology as a component of one of their subjects and they must satisfy the pre-requisites for the Honours degree of that department. Intending students should consult the Senior Lecturer in Social Biology and the Chairman of the Department concerned.

ZOOLOGY.

Examinations.

Assessments in Zoology will take various forms. Both lecture and practical work will be assessed.

Practical Zoology.

Practical work (laboratory and/or fieldwork) forms an integral part of most courses offered in Zoology. A record of all laboratory work must be kept.

SZ71 Biology I.

A course consisting of two lectures, one tutorial and approximately four hours of practical work each week throughout the year. Both day and evening classes will be held.

The course includes: elementary biochemistry, cell structure and physiology, genetics, structure physiology and evolution of plants and animals, the mechanisms of evolution and the principles of ecology.

Text-book:

Curtis, H., *Biology*, 3rd edition (Worth).

SZ02 Zoology II.

Pre-requisite subjects: A pass at Division I standard or higher in SZ71 Biology I. Students are advised to take SC01 Chemistry I. In addition, while the Department does not formally teach statistics, it believes that an understanding of probability and statistics is basic to modern biological research. Therefore the Department recommends that students take QT7H Statistics IH.* Students are advised also to acquire a handbook of statistics for use throughout their course.

A suitable book is:

Sokal, R. R., and Rohlf, F. J., *Introduction to Biostatistics* (Freeman).

The course consists of three lectures and six hours practical work a week throughout the year. Two thirds of the course is concerned with diversity and structure in the invertebrates and vertebrates. The remainder is concerned with: evolution and physiology. The course is designed both for those students intending not to proceed further in Zoology, and those who wish to proceed to third-year Zoology.

Text-books:

Barnes, R. D., *Invertebrate zoology*, 4th edition (Saunders College).

Imms, A. D., *Outlines of entomology*, 5th edition (Methuen).

McFarland, W. N., and others, *Vertebrate life* (Collier-Macmillan).

Wilson, J. A., *Principles of animal physiology*, 2nd edition (Collier-Macmillan).

*However, students wishing to take mathematics or statistics beyond first year should examine the relevant pre-requisites.

THIRD-YEAR SUBJECTS IN ZOOLOGY.

Pre-requisite subject for all third-year subjects in Zoology: SZ02 Zoology II at Division I pass or higher standard.

The Department offers the following double-units:

Z301 ECOLOGY: First term.

Recommended subject QT7H Statistics IH.

Three lectures, one three-hour practical session and one six-hour practical session each week.

A major portion of the course will concern the ecology of populations and some aspects of communities. Topics will include the concept of "population", characteristics of populations and their measurement, selection, adaptation and speciation, the kinds of factors which influence the distribution and abundance of animals, the use of models and the significance of variability in ecological systems. The interface between ecology and evolution at the level of the population will be explored. Selected areas of current research will be discussed in detail as examples. The practical work and some of the examples in lectures will concern marine systems. Field work will form part of the practical course.

Text-book:

Krebs, C. J., *Ecology; the experimental analysis of distribution and abundance*, 2nd edition (Harper and Row).

Other references will be mentioned during the course; some will be available for loan.

Z302 COMPARATIVE BIOCHEMISTRY AND POLLUTION: First term.

The course attempts a holistic approach to the study of pollution, how man is altering his environment. Comparative biochemistry provides a useful framework for integrating diverse information on pollution and also has a variety of practical uses in modern zoology. The lecture topics: biogeochemistry and heavy metal pollution; biochemical control systems, including control at the levels of replication, transcription, translation, and allosteric and symsteric effects; detoxication, including the evolution of pesticide resistance in insects, and oxygen toxicity and superoxide dismutases; the energy crisis for man and beast; molecular evolution and biochemical systematics, including phylogenetic trees and genetic distance; selected topics in chemical and radiation pollution, emphasising food chain accumulation, and the arguments over dose effects and threshold; and, *social hazard* and *biohazard*, reviewing the debate over recombinant DNA, genetic engineering, self-pollution (alcohol, smoking and other drugs), and information pollution (computerisation and automation).

Selected topics in the area of resources versus population are also considered, together with a review of 'green revolution' agriculture and other current controversies.

The practicals are a study of thermal enrichment at the Torrens Island power station and a study of genetic variation in animal populations, illustrating techniques of zone electrophoresis and individual sensitivity to pollutants. The opportunity exists for students to pursue special topics within the limits of available equipment.

To enable students to pursue certain topics in reasonable depth, one-third of the course assessment is placed on producing a thorough essay review of the literature on a topic in either comparative biochemistry or pollution.

To maintain a balance between older studies of proven relevance, current topics of particular relevance, and a diversity of viewpoints on controversial topics, xeroxed material is provided in place of a text-book. This also ensures that, while considerable emphasis is given to pollution topics at a molecular level, there is not neglect of pollution studies involving epidemiological, statistical, social and political considerations.

There are no special pre-requisites to the course.

Z303 COMPARATIVE AND ENVIRONMENTAL PHYSIOLOGY: Second term.

Twenty-four lectures, seminars and practicals during the third term. The practical work consists of formal three-hour practicals throughout the term. As well students are divided into small groups and given a special project to develop throughout the term. Assessment is based on a formal examination at the end of the term and on practical work.

The course is concerned with how vertebrates are adapted to the environment in which they live. Homeostasis and control mechanisms of various organ systems are considered, as well as the interaction of these systems with each other and with the environment.

Text-books:

Gordon, M. S., *Animal physiology: principles and adaptations*, 3rd edition (Macmillan).

Schmidt-Nielsen, K., *How animals work* (Cambridge).

Z304 PARASITES AND PARASITISM: Third term.

Recommended subject SC01 Chemistry I.

Protozoa and invertebrates as parasites with emphasis on those of medical or economic significance. The course will include an analysis of the nature of parasitism together with a number of topics selected from current research e.g. growth and neuro-endocrinology of parasites; physiology of infection; metabolism of parasites; parasites as experimental animals; impact of parasitism on human affairs.

Text-book:

Whitfield, P. J., *The biology of parasitism* (Arnold).

Z305 SYSTEMATICS AND BIOGEOGRAPHY: Third term.

Twenty-four lectures or tutorials and twenty-four practicals during third term. A proportion of the practicals will be conducted informally, with each student investigating his or her own project in field and laboratory. Students will be assessed from their practical work and by means of essays and a theory examination. Topics discussed will include the following: biological nomenclature; procedural taxonomy; aspects of systematics; characters and directions of evolutionary change; growth and opportunities for diversification; diverse approaches to systematics; approaches to phylogeny; distribution and taxonomy; Wallace's Regions; marine biogeography; biological significance of continental drift; inter-continental distributions in the Southern Hemisphere; the theory of island biogeography; implications of island biogeography for conservation; biogeography of Australia and New Guinea; concepts of sub-regions; mechanisms of dispersal; barriers to dispersal; impact of glacial periods; South Australian faunal components.

Text-books:

Mayr, E., *Principles of systematic zoology* (McGraw-Hill).

Jeffrey, C., *Biological nomenclature*, 2nd edition (Arnold).

Z306 FRESHWATER ECOLOGY: Second term.

An introduction to the ecological characteristics of inland waters (lakes and streams), with emphasis on Australian environments. Assessment involves practical work, an assignment, and a theory examination. A weekend field camp is proposed during term.

Students should note that this course is complementary to Unit B311 Phytoplankton ecology offered by the Department of Botany.

Text-books:

Bayly, I. A. E., and Williams, W. D., *Inland waters and their ecology* (Longman).

Williams, W. D., *Australian freshwater life: the invertebrates of Australian inland waters*, 2nd edition (Sun Books).

The subjects offered are:

SZ03 Zoology III.

A group C subject. Any three double-units from the above list taken with the approval of the Chairman of the Department.

SZ83 Zoology IIIM.

A group C subject. With the approval of the Heads/Chairmen of the Departments concerned, a combination of two double-units from the above list (two terms' work), together with two units or one double-unit (one term's work) in another department. B333 Social Biology will be acceptable. (For syllabus see above under "Social Biology".)

Students who wish to enrol for SZ83 Zoology IIIM and then to take an Honours degree in Zoology should consult the Chairman of the Department before they enrol for SZ83 Zoology IIIM.

HONOURS DEGREE.

SZ99 Honours Zoology.

Students enrolled in SZ03 Zoology III or SZ83 Zoology IIIM who wish to take an Honours degree in Zoology should consult the Chairman of the Department some time during the third term. As a rule, for entry into Honours Zoology, students must have attained credit standing or better in third-year Zoology and at least a pass in their other third-year subject.

Candidates are expected to attain a higher standard in general zoology than that required for the Ordinary degree. Candidates are expected to study more deeply one branch of Zoology, to carry out research as an exercise in scientific method, and other assignments as prescribed.

Students are expected to begin work during the long vacation, and to work full-time at their courses throughout the year.

OF THE DEGREE OF

MASTER OF SCIENCE

IN THE FACULTY OF SCIENCE

REGULATIONS

1. The following persons may become candidates for the degree of Master of Science in the Faculty of Science (a) Bachelors of Science, (b) Bachelors of Agricultural Science, and (c) other graduates whose academic qualifications are accepted by the Faculty of Science as sufficient:

Provided that, subject to the approval of the Council, the Faculty may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold a degree of a university, but has given evidence satisfactory to the Faculty of his fitness to undertake work for the degree.

1A. Unless the candidate has obtained the Honours degree of Bachelor of Science or of Agricultural Science he shall, before submitting his thesis as provided for in regulation 4, pass such qualifying examination as the Faculty may in the circumstances deem proper. Except under special circumstances acceptable to the Faculty, the qualifying examination should be taken within one year from the beginning of the candidature for a full-time candidate or within two years from the beginning of the candidature for a part-time candidate.

2. Subject to conditions to be determined in each case a graduate of a university recognised by the University of Adelaide, whose degree is accepted by the Faculty of Science as equivalent to one of the qualifications required in regulation 1, may be allowed by the Council to proceed to the degree in compliance with these regulations. Every such candidate must spend at least three consecutive academic terms or twelve calendar months at the University of Adelaide or at an institution approved for the purpose by the University of Adelaide.

3. A candidate who holds the Honours degree of Bachelor of Science or Bachelor of Agricultural Science or its equivalent in a university recognised by the University of Adelaide may proceed to the degree of Master of Science in the Faculty of Science at the expiration of one year from the date of his admission to the Honours degree of Bachelor; no other candidate shall proceed to the degree before the expiration of two years from the date of the beginning of his candidature.

4. To qualify for the degree a candidate shall submit a thesis upon an approved subject and shall adduce sufficient evidence that the thesis is his own work. The thesis shall give the results of original research or of an investigation on which the candidate has been engaged. A candidate may also submit other contributions to science in support of his candidature.

5. A person seeking enrolment as a candidate for the degree shall apply to the Academic Registrar and shall submit as part of his application, a statement of his academic standing, accompanied, in the case of a person who is not a graduate of the University of Adelaide, by acceptable proof of such standing and an outline of the research work or investigation on which he intends to submit a thesis. The Faculty of Science, if it approve the subject of his research, may appoint a supervisor to guide the candidate in his work. The candidate shall submit his thesis not earlier than three terms and, except by special permission of the Faculty, not later than nine terms after approval by the Faculty of the subject of his research.

6. The Faculty shall appoint a Board of Examiners to report upon the thesis and any supporting papers that the candidate may submit. The Board of Examiners may require any candidate to pass an examination in the branch of science to which his original research or investigation is cognate.

7. A candidate for the degree of Doctor of Philosophy or Doctor of Science whose work is considered by the Faculty, after report by the examiners appointed to adjudicate upon it, not to be of sufficient merit to qualify for the degree of Doctor but of sufficient merit for the degree of Master may be admitted to the degree of Master provided that he is qualified to become a candidate for the degree.

8. On completion of his work a candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

9. A candidate's progress shall be reviewed annually by the Faculty under the provisions of clause 4C of Chapter XXV of the Statutes.

10. A candidate who complies with the foregoing conditions and satisfies the Board of Examiners shall on the recommendation of the Faculty of Science be admitted to the degree of Master of Science in the Faculty of Science.

Regulations allowed 7 December, 1939.

Amended: 14 Dec. 1944: 1A, 6; 8 Dec. 1949: 7; 15 Jan. 1959: 1A; 16 Mar. 1961: 8; 4 Apr. 1963: 1; 12 Dec. 1963: 1A, 4; 28 Feb. 1974: 1, 1A, 3, 10; 23 Jan. 1975: 9; 15 Jan. 1976: 9; 8 Feb. 1979: 1A.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF

DOCTOR OF SCIENCE

IN THE FACULTY OF SCIENCE

REGULATIONS

1. (a) Subject to these regulations a person who has been admitted in the University of Adelaide to an Honours degree of Bachelor or a degree of Master in Science, Agricultural Science, Applied Science or Engineering, or to the degree of Doctor of Philosophy in a field of study approved by the Faculty of Science, may proceed to the degree of Doctor of Science in the Faculty of Science.

(b) On the recommendation of the Faculty of Science the Council may accept as a candidate for the degree a person who has been admitted to a degree in the University of Adelaide other than one named in section (a) of this regulation, or who is a graduate of another university or institution of higher education recognised by the University of Adelaide and has a substantial association with the University; provided that in each case the graduate concerned has, in the opinion of the Faculty of Science, had an adequate scientific training.

(c) On the recommendation of the Faculty of Science the Council may, in special cases, accept as a candidate for the degree a person who does not hold a degree of a university or institution of higher education, provided that in each case the candidate concerned has a substantial association with the University and has, in the opinion of the Faculty of Science, adequate scientific credentials.

(d) Except where a person has been accepted as a candidate under regulation 1(c), no person shall be accepted as a candidate for the degree of Doctor of Science in the Faculty of Science before the expiration of five years from the date of his original graduation.

2. (a) A person who desires to become a candidate for the degree shall give notice of his intended candidature in writing to the Academic Registrar and with such notice shall furnish particulars of his scientific achievements and of the work which he proposes to submit for the degree.

(b) The Faculty of Science shall appoint a committee to examine the information submitted and to advise the Faculty on whether the Faculty should—(i) allow the applicant to proceed, and approve the subject or subjects of the work to be submitted; *or* (ii) advise the applicant not to submit his work: and the Faculty's decision shall be conveyed to the applicant.

(c) If it accept the candidature and approve the subject or subjects of the work to be submitted the Faculty shall nominate examiners of whom one at least shall be an external examiner.

3. (a) To qualify for the degree the candidate shall furnish satisfactory evidence that he has made an original contribution of distinguished merit adding to the knowledge or understanding of any subject with which the Faculty is directly concerned.

(b) The degree shall be awarded primarily on a consideration of such of his published works as the candidate may submit for examination.

(c) The candidate in submitting his published works shall state generally in a preface and specifically in notes the main sources from which his information is derived and the extent to which he has availed himself of the work of others, especially where joint publications are concerned. He may also signify in general terms the portions of his work which he claims as original.

(d) The candidate is required to indicate what part, if any, of the work he has submitted for a degree in this or any other university.

4. The candidate shall lodge with the Academic Registrar three copies of the work prepared in accordance with the directions given in sub-paragraph (b) of clause 2B of Chapter XXV of the Statutes. If the work is accepted for the degree the Academic Registrar will transmit two of the copies to the University Library.

5. A candidate who complies with the foregoing conditions and satisfies the examiners may, on the recommendation of the Faculty of Science, be admitted to the degree of Doctor of Science in the Faculty of Science.

6. Notwithstanding anything contained in the preceding regulations, the Faculty may recommend the award of the degree to any person who is not a member of the staff of the University. Any such recommendation must be accompanied by evidence that the person for whom the award is proposed has made an original and substantial contribution of distinguished merit to the knowledge or understanding of a subject with which the Faculty is directly concerned, of a standard not less than that required by regulation 3.

Regulations allowed 4 November, 1965.

Amended: 28 Feb. 1974: 1,5; 23 Jan. 1975:1; 15 Jan. 1976: 6.

BOARD OF ENVIRONMENTAL STUDIES
REGULATIONS, SCHEDULES AND SYLLABUSES
OF THE DIPLOMA AND DEGREE

| | |
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| Diploma in Environmental Studies (Dip.Env.St.) | |
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OF THE

DIPLOMA IN ENVIRONMENTAL STUDIES

REGULATIONS

1. There shall be a postgraduate Diploma in Environmental Studies.
2. (a) An applicant for admission to the course of study for the diploma must be a graduate of the University of Adelaide or hold qualifications from another university or institution acceptable for the purpose by the University of Adelaide.
(b) Subject to the approval of the Council, the Board of Environmental Studies may, in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the diploma a person who does not hold the qualifications specified in regulation 2(a) above but who has given evidence satisfactory to the Board of his fitness to undertake work for the diploma.
(c) Admission to the course of study for the diploma shall be subject to approval by the Board.
(d) The Board, if it sees fit to do so, may require the applicant to complete such additional preliminary work as it may prescribe before being accepted as a candidate for the diploma.
(e) Applications for admission shall be addressed to the Academic Registrar.
3. To qualify for the diploma a candidate shall satisfy examiners in courses of study as prescribed in the schedules.
4. A candidate is required to complete the work for the diploma full-time and in one year. In special circumstances, however, the Board may grant extensions of time.
5. Schedules defining the courses of study for the diploma shall be drawn up from time to time by the Board of Environmental Studies and approved by the Council.
6. The maximum number of candidates which may be enrolled in any course for the diploma shall be determined from time to time by the Council on the recommendation of the Board of Environmental Studies; and nothing in these regulations shall be held to bind the Council to provide any or all the courses in any year if for any reason the Council decides to suspend it or them.
7. If in the opinion of the Board of Environmental Studies a candidate for the diploma is not making satisfactory progress the Board may with the consent of the Council withdraw its approval of his candidature and the candidate shall thereupon cease to be enrolled for the diploma.
8. The Board of Environmental Studies shall appoint the examiners required under regulation 3.
9. A candidate who fulfils the requirements of these regulations and satisfies the examiners appointed under regulation 3 shall on the recommendation of the Board of Environmental Studies be awarded the Diploma in Environmental Studies.
10. Notwithstanding the above regulations a candidate who has been enrolled for the degree of Master of Environmental Studies and who has completed the work prescribed herein for the diploma and who has not been awarded the Master's degree shall, on the recommendation of the Board of Environmental Studies at any time, be awarded the diploma.

OF THE
**DIPLOMA IN ENVIRONMENTAL
STUDIES**

SCHEDULES

(Made by the Council under regulation 5.)

NOTE: Syllabuses of subjects for the Diploma in Environmental Studies are published immediately after the schedules of the degree of Master of Environmental Studies. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of volume.

SCHEDULE I: COURSES OF STUDY

1. Unless exempted therefrom by the Board of Environmental Studies every candidate for the diploma shall in the first year complete the following courses of study:

(a) General Environmental Studies

A course entitled General Environmental Studies which unless the Board decides otherwise shall comprise four compulsory subject units and at least two optional subject units. The number of optional subject units offered in any one year will depend on the availability of staff.

Compulsory subject units:

- VX05 Environmental Biology
- VX15 Environmental Geoscience
- VX25 Theory and Practice of Environmental Management
- VX35 Quantitative and Qualitative Methods

Optional subject units:

- VX45 Geomorphology in Environmental Management
- VX55 Conservation and National Parks
- EE43 Economics of Natural Resource Use
- VX16 Ecology of Inland Waters
- VX65 Environmental Chemistry
- VX75 Environmental Physics
- VX85 Environmental Psychology
- VX95 Exploitation and Management of Seafloor Resources, and Coastal Zone Management
- VX26 Genetic Health and Biosocial Effects of Environmental Pollution
- VX56 Medicine in the Community
- VX96 Photogrammetric and Remote Sensing Methods of Data Acquisition— Interpretation in Environmental Planning
- VX76 The Role of the Engineer in Environmental Management
- VX86 Urban and Regional Planning

(b) Other Courses

Such other course or courses, if any, as the Board may prescribe.

2. To complete a course of study a candidate, unless exempted therefrom by the Board, shall:

- (a) regularly attend the prescribed lectures, tutorials and seminars; and
- (b) undertake such practical work and case studies, do such written work and pass such examinations, as the Board may prescribe.

3. On the recommendation of the Chairman of the department concerned the Board may exempt a candidate from the need to satisfy any pre-requisites prescribed in the syllabus of any subject for which he wishes to enrol.

4. A candidate who desires that work which he had completed in the University or elsewhere should be counted towards the requirements of these schedules may, on written application to the Academic Registrar, be granted such exemption from the requirements as the Council, on the advice of the Board of Environmental Studies, shall determine.

5. Courses of study must be approved by the Chairman of the Board (or his nominee) at enrolment each year.

SYLLABUSES

The syllabuses of the Diploma in Environmental Studies are published below immediately after the schedules of the degree of Master of Environmental Studies.

OF THE DEGREE OF
MASTER OF ENVIRONMENTAL STUDIES
REGULATIONS

1. There shall be a degree of Master of Environmental Studies and a Board of Environmental Studies.

The Board

2. The Board shall consist of:

- (a) The Chancellor, the Deputy Chancellors, the Vice-Chancellor, the Chairman of the Education Committee, the Director of Environmental Studies, the South Australian Director of Environment and Conservation, *ex officio*;
- (b) up to twelve members appointed annually by the Council on the recommendation of the Board, chosen so that they shall include, as far as possible, at least one representative of each faculty currently contributing to the teaching or supervision of candidates enrolled for the degree;
- (c) two members elected annually from amongst themselves by the candidates currently enrolled as candidates for the degree;
- (d) one member appointed by the Council.

3. (a) The Board shall be responsible for the acceptance as candidates for the degree of applicants for admission to the course of study for the degree.

(b) Subject to availability of accommodation and facilities (and in the case of a candidate for some other higher degree to the concurrence of the Faculty concerned also) the Board may admit to any of the courses of study other persons who are qualified for admission to the course or courses and whose work or studies are relevant to environmental studies.

4. The Board shall annually elect one of its members to be Chairman.

5. The Chairman of the Board shall:

- (a) at his own discretion, or on the request of the Chancellor or the Vice-Chancellor, or on the written request of two other members of the Board, convene meetings of the Board;
- (b) preside at meetings of the Board;
- (c) subject to the control of the Board, exercise a general control over its administrative business; and
- (d) perform such other duties as the Council may from time to time prescribe.

6. Whenever the Chairman is absent from a meeting, the Board shall elect another member to preside during the Chairman's absence.

The Degree

7 (a) An applicant for admission to the course of study for the degree must be a graduate of the University of Adelaide or hold qualifications from another university or institution acceptable for the purpose by the University of Adelaide.

(b) Subject to the approval of the Council, the Board may in special cases and subject to such conditions (if any) as it may see fit to impose in each case, accept as a candidate for the degree a person who does not hold the qualifications specified in regulation 7(a) above but who has given evidence satisfactory to the Board of his fitness to undertake the work for the degree.

(c) Admission to the course of study for the degree shall be subject to approval by the Board of Environmental Studies.

(d) The Board, if it sees fit to do so, may require the applicant to complete such additional preliminary work as it may prescribe before being accepted as a candidate for the degree.

(e) Applications for admission shall be addressed to the Academic Registrar.

8. To qualify for the degree a candidate shall:

(a) satisfy examiners in courses of study as prescribed in the schedules; and

(b) as prescribed in the schedules, carry out research work and present a satisfactory dissertation on a subject approved by the Board of Environmental Studies.

9. Schedules defining the courses of study for the degree shall be drawn up from time to time by the Board of Environmental Studies and approved by the Council.

10. The maximum number of candidates which may be enrolled in any course for the degree shall be determined from time to time by the Council on the recommendation of the Board of Environmental Studies; and nothing in these regulations shall be held to bind the Council to provide any or all the courses in any year if for any reason the Council decides to suspend it or them.

11. If in the opinion of the Board of Environmental Studies a candidate for the degree is not making satisfactory progress the Board may with the consent of the Council withdraw its approval of his candidature and the candidate shall thereupon cease to be enrolled for the degree.

12. On completion of his work the candidate shall lodge with the Academic Registrar three copies of his dissertation prepared in accordance with directions given to candidates from time to time.

13. The Board of Environmental Studies shall appoint the examiners required under regulation 8, both for the courses of study and for the dissertation.

14. A candidate who fulfils the requirements of those regulations and satisfies the examiners appointed under regulation 13 may on the recommendation of the Board of Environmental Studies be admitted to the degree.

15. A candidate who holds the Diploma in Environmental Studies shall surrender his diploma before being admitted to the degree.

16. These regulations shall come into force at a date to be determined by the Council.*

Regulations allowed 21 December, 1972.

Amended: 15 Jan. 1976: 9; 2 Feb. 1978: 7; 31 Jan. 1980: 7,15; Awaiting allowance: 2.

* The Council determined 1 July, 1975 as the date when the regulations came into force.

OF THE DEGREE OF
MASTER OF ENVIRONMENTAL STUDIES
SCHEDULES

(Made by the Council under regulation 9.)

NOTE: Syllabuses of subjects for the degree of M.Env.St. are published below, immediately after these schedules. For syllabuses of subjects taught for other degrees and diplomas see the table of subjects at the end of the volume.

SCHEDULE I: COURSES OF STUDY

1. Unless exempted therefrom by the Board of Environmental Studies every candidate for the degree shall in the first year complete the following courses of study:

(a) General Environmental Studies.

A course entitled *General Environmental Studies* which unless the Board decides otherwise shall comprise *four* compulsory subject units and at least *two* optional subject units. The number of optional subject units offered in any one year will depend on the availability of staff.

Compulsory subject units:

- VX05 Environmental Biology
- VX15 Environmental Geoscience
- VX25 Theory and Practice of Environmental Management
- VX35 Quantitative and Qualitative Methods

Optional subject units:

- VX45 Applied Geomorphology in Environmental Management
- VX55 Conservation and National Parks
- EE43 Economics of Natural Resource Use
- VX16 Ecology of Inland Waters
- VX65 Environmental Chemistry
- VX75 Environmental Physics
- VX85 Environmental Psychology
- VX95 Exploitation and Management of Seafloor Resources, and Coastal Zone Management
- VX26 Genetic Health and Biosocial Effects of Environmental Pollution
- VX56 Medicine in the Community
- VX96 Photogrammetric and Remote Sensing Methods of Data Acquisition— Interpretation in Environmental Planning.*
- VX76 The Role of the Engineer in Environmental Management
- VX86 Urban and Regional Planning

(b) Advanced Studies.

Advanced studies in the area of his academic and professional competence and related to the research project of the second year.

*This subject unit will be held at the School of Surveying, S.A. Institute of Technology, The Levels Campus.

(c) Other Courses.

Such other course or courses, if any, as the Board may prescribe.

2. To complete a course of study a candidate, unless exempted therefrom by the Board, shall:

- (a) regularly attend the prescribed lectures, tutorials and seminars; and
- (b) undertake such practical work and case studies, do such written work, and pass such examinations, as the Board may prescribe.

3. On the recommendation of the Chairman of the department concerned the Board may exempt a candidate from the need to satisfy any pre-requisites prescribed in the syllabus of any subject for which he wishes to enrol.

4. A candidate who desires that work which he had completed in the University or elsewhere should be counted towards the requirements of these schedules may, on written application to the Academic Registrar, be granted such exemption from the requirements as the Council, on the advice of the Board of Environmental Studies, shall determine.

5. Courses of study must be approved by the Chairman of the Board (or his nominee) at enrolment each year.

SCHEDULE II: RESEARCH WORK

1. The second year of the course and, with the permission of the Board, part of the first year shall be devoted to research on a topic approved by the Board.

2. The research project will normally require the co-operative effort of several students; however, each student must present a separate dissertation of a standard acceptable to examiners appointed by the Board. The dissertation must not only deal with those aspects of the project studied by the student, but must also indicate an appreciation of the work of other students undertaking the project.

3. (a) In special circumstances, and with the permission of the Board in each case, a student may complete the work of the second year over not more than two years of part-time study.

(b) With the permission of the Board in each case two or more candidates may submit a joint dissertation on a subject approved by the Board. In that case each candidate must also present himself for an individual oral examination. In the light of their assessment of each candidate's contribution and quality of work the examiners may recommend for each candidate: *a.* that the degree be awarded; *b.* that the degree be not awarded; or *c.* that the candidate be required to submit additional individual work or to contribute to a revision of the joint dissertation. The dissertation must normally be acceptable before the degree can be awarded to any of its contributors, but in special circumstances the examiners may recommend that the Board suspend that requirement to allow the degree to be awarded to one or more contributors to a dissertation which is not in all respects acceptable.

4. In special circumstances the Board may grant an extension of time beyond the maximum period applicable to a full-time or to a part-time candidate for submission of his thesis.

OF THE DEGREE OF

MASTER OF ENVIRONMENTAL STUDIES

SYLLABUSES

Text-books:

The lists of the text-books were correct at the time that this Volume went to press. It is possible however that amendments to these lists will be made before the start of lectures; and, if so, students attending classes will be notified appropriately by the lecturer concerned.

In general, students are expected to have their own copies of text-books; but they are advised to await advice from the lecturer concerned before buying any particular book. Only the prescribed edition of any text-book should be bought.

Reference books:

Although lists of books and journals for reference purposes are regarded as important, details have not been included in this Volume. These will however be issued from time to time by the departments concerned. It is hoped that all books and journals set for reference will be available to be consulted in the Barr Smith Library.

Examinations:

For each subject students may obtain from the department concerned details of the examination in that subject including the relative weights given to the components (e.g. such of the following as are relevant: assessments, term or mid-year tests, essays or other written or practical work, final written examinations, *viva voce* examinations).

MASTER OF ENVIRONMENTAL STUDIES.

The degree is awarded for work within the University, including case studies, compulsory and optional subject units and work for a dissertation. More detailed information will be available to students when they enrol for the course.

The first year of the course is entitled "General Environmental Studies" and covers the following subject units:

COMPULSORY CORE-SUBJECT UNITS.

VX05 Environmental Biology.

This subject unit will involve three contact hours every week together with some practical work and field excursions. It will give a basic introduction to population biology, evolutionary biology and the biology of ecosystems.

There will be some emphasis on the environmental biology of humans: the consequences of their activities in altering the environment and depleting its resources; and the biological effects on them of such environmental changes.

VX15 Environmental Geoscience.

This subject unit will involve, on average, three contact hours a week *including* practical work. There will also be one-day field excursions at weekends.

This subject unit will examine the physical and chemical environment and will include the following topics: energy and water resources; air pollution; trace nutrients; geology in the ecosystem; instability of the earth's crust; floods and urbanisation; applied geomorphology in environmental management; coastal zone conservation, and the pros and cons of erosion.

VX25 Theory and Practice of Environmental Management.

This subject unit will involve the following contact hours:

Legal aspects. At least sixty contact hours including seminars.

Economic aspects. At least two contact hours a week throughout two terms, including seminars/tutorials and practical work.

Political and social theory of environmental management. At least two contact hours a week throughout two terms.

The legal aspects will include problems pertaining to the enactment, administration and enforcement of laws relating to national parks; nature and wildlife reserves; land organisation; pollution; water resources; regional and urban development; ownership of international resources; relationship between economic theory and practice; nature of environmental decision-making processes.

VX35 Quantitative and Qualitative Methods.

This subject unit will involve three contact hours a week throughout the year, *including* lectures, workshops and practical work.

This subject unit will include the following topics: an evaluation of the use of quantitative methods and statistics; examination of the role of qualitative techniques in environmental studies; computing, systems analysis and modelling.

The integration and interaction of the compulsory subject units, with regard to environmental studies, will be emphasised by a detailed examination of selected case studies including, for example; recreational facilities for urban regions; husbandry in semi-arid and arid lands; forest management schemes; occupational health problems pertaining to the environment; water and energy resources in Australia; ownership of international resources and the exploitation of seafloor resources.

OPTIONAL SUBJECT UNITS.

Subject to the availability of staff, students will be able to take at least two of the following optional subject units which will usually be in the area of their special undergraduate education. In addition, students may, with special permission, take one or two additional optional subject units in the second year of the course, which will usually be related to their work for their research project. Each optional subject unit will involve at least two contact hours a week *including* seminars and practical work:

VX45 Applied Geomorphology in Environmental Management.

VX55 Conservation and National Parks.

VX16 Ecology of Inland Waters.

VX65 Environmental Chemistry.

VX75 Environmental Physics.

VX85 Environmental Psychology.

VX95 Exploitation and Management of Seafloor Resources and Coastal Zone Management.

VX26 Genetic Health and Biosocial Effects of Environmental Pollution.

VX36 History and Philosophy of Urban and Regional Planning.

VX56 Medicine in the Community.

**VX96 Photogrammetric and Remote Sensing Methods of
Data Acquisition-Interpretation in Environmental Planning.**

VX76 The Role of the Engineer in Environmental Management.

VX86 Urban and Regional Planning.

In addition, a general Seminar programme will be held during the first two terms of the first year. The main aim is to invite speakers, who are recognised authorities in their field of research, to discuss and to evaluate with students various environmental management and decision-making problems.

Text-books:

Lists of recommended text-books for all subjects may be obtained on application to the Director of Environmental Studies.

BOARD OF RESEARCH STUDIES
REGULATIONS AND SCHEDULES OF THE
DEGREE

Doctor of Philosophy (Ph.D.)

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OF THE DEGREE OF
DOCTOR OF PHILOSOPHY
REGULATIONS

I. General

1. There shall be a degree of Doctor of Philosophy and a Board of Research Studies.

2. (a) (i) The Board shall comprise three members of the Faculty of Science, two members of the Faculty of Agricultural Science, two members of the Faculty of Engineering, two members of the Faculty of Arts, two members of the Faculty of Medicine, one member of the Faculty of Architecture and Town Planning, one member of the Faculty of Dentistry, one member of the Faculty of Economics, one member of the Faculty of Law, one member of the Faculty of Music, one member of the Faculty of Mathematical Sciences and three persons enrolled as full-time students for the degree of Ph.D. elected from among themselves in accordance with election procedures drawn up and approved by the Board of Research Studies.

(ii) The members of the Board shall be elected by the appropriate faculties for a term of three years with the exception of the postgraduate student members whose maximum period of membership shall be two years.

(iii) The Board shall annually elect from among its members a Chairman and a Deputy Chairman.

(b) The Board shall carry out those functions laid upon it by these regulations.

—3. Schedules specifying the academic standing required for candidature, and the nature and extent of the work to be completed, shall be drawn up from time to time by the Board and submitted to the Council. Such schedules shall become effective from the first day of January following their approval by the Council or from such other date as the Council may determine and shall be published in the University Calendar.

II. Enrolments

4. (a) A person seeking enrolment as a candidate for the degree shall apply to the Academic Registrar in such form as the Board shall prescribe and shall submit as part of his application a statement of his academic standing, accompanied in the case of a person who is a graduate of a university or institution other than the University of Adelaide by proof thereof acceptable to the Board, and an outline of the course of study and research which he proposes to pursue.

(b) A person seeking credit in the University of Adelaide for a course of study and research leading to the degree of Doctor of Philosophy in another tertiary institution shall further submit an outline of the work he has already completed, together with a supporting statement from his supervisor or some other responsible person of that institution.

5. (a) A person shall not be enrolled as a candidate for the degree unless the Board is satisfied:

(i) that his proposed course of study and research can be adequately supervised;

(ii) that he is personally qualified to undertake the particular course of study and research which he proposes; and

(iii) that in the case of a person granted credit under regulation 4(b) at least one year of full-time study and research, or its equivalent, will still be necessary to complete the work for the degree.

(b) The Chairman of the appropriate department and the appropriate faculty shall have the power to make recommendations to the Board on the matters set out in section (a) of this regulation.

(c) The appropriate faculty or the Board may require a candidate who is not a graduate of the University to pass at a time which it specifies such examination of Honours standard, whether special or annual, as it may deem necessary or desirable. The candidate must be notified of this requirement not later than six months after his acceptance.

6. (a) When it approves an enrolment the Board shall specify the month from which the candidature shall date, which shall normally be the one in which the candidate begins his course of study and research for the degree. In the case of a candidate enrolled under regulation 4(b), the month to be specified shall normally be the one in which the candidate commenced work in the other institution.

(b) When a candidate is required under regulation 5(c) to undergo an examination the Board shall determine, after he has passed the examination, the month from which his candidature will date.

III. Work for the Degree

7. (a) A candidate shall pursue, to the satisfaction of the Board, and in accordance with any special conditions that may be specified in his case, an approved course of study and research in the University under a supervisor or supervisors appointed by the appropriate faculty and approved by the Board. At least one supervisor shall be internal to the University.

(b) At the end of each year of candidature a supervisor shall submit to the Board a written report on the work of each candidate in his charge. He shall report to the Board at any time if in his opinion a candidate is not making satisfactory progress in his work or is otherwise not fulfilling the conditions laid down for him, or appears unlikely to reach the standard of the degree.

8. A candidate for the degree shall devote his whole time to the pursuit of his approved course of study and research; provided that full-time members of the academic staff of the University and full-time members of the academic staff of the South Australian Institute of Technology who are engaged in teaching courses prescribed for a degree of the University may be permitted to proceed to the degree on such conditions as the Board may prescribe.

9. (a) Subject to the provisions of this regulation, a candidate for the degree shall pursue his approved course of study and research within the University for a period of not less than two years and not more than four years from the date of his enrolment provided that, in the case of a candidate enrolled under regulation 4(b), the Board shall prescribe equivalent minimum and maximum periods, having regard to the conditions under which the work was carried out in the other institution.

(b) In special circumstances the Board may accept as an internal half-time candidate for the degree a person who, in its opinion, is a fully qualified person, is free to pursue his research programme within the University and is able to devote at least half of his time to his research. In such a case the Board shall prescribe for the duration of his programme minimum and maximum periods which in its opinion, having regard to the proportion of his time which he is able to devote to the programme in the appropriate departments, are respectively equivalent to the periods ordinarily required.

(c) The Board may permit a candidate to pursue at another university or institution part of his approved course under such conditions as it thinks fit. Normally, candidates will be required to work for at least two years within the University, but in the case of a candidate enrolled under regulation 4(b), and in other exceptional circumstances the Board may approve a reduced period on such conditions as it may determine in each case.

(d) A candidate's supervisor, who shall report to the Board, may permit a candidate to spend three months in any one year of his candidature away from the University on work connected with his research. A period of such absence in excess of three months must be approved in advance by the Board.

(c) Because of the specific responsibility of the South Australian Institute of Technology in the conduct of certain University courses, notwithstanding the provisions of regulations 5(a) and 7(a) and sub-clause (a) of this regulation, the Board may, on the recommendation of the Faculty of Engineering or the Faculty of Science, permit a candidate to carry out his work in a department of the South Australian Institute of Technology; provided that:

- (i) the candidate is a full-time member of the academic staff of the Institute;
- (ii) the candidate is able to devote at least half of his time to his research; and
- (iii) the Board is satisfied that facilities for the proposed course of study are available only in the Institute.

10. (a) A candidate shall submit for approval by the appropriate faculty the proposed title of the thesis required under section (b) of this regulation approximately three months before he expects to submit the thesis. On submission of the proposed title the appropriate faculty may also require a candidate to submit a summary of the thesis.

(b) At the end of his approved course of study and research a candidate shall present to the Academic Registrar, in such form as the Board prescribes,* not fewer than three copies of a thesis embodying the results of his study and research. He may submit also, in support of the thesis, other relevant material provided that no material presented for any other degree within this or any other university shall be so submitted.

(c) Only in exceptional circumstances and by special permission of the Board on the recommendation of the relevant faculty may an extension of time beyond the maximum period applicable to the particular candidate be allowed for submission of the thesis.

(d) On submission of the thesis or an acceptable summary thereof the appropriate faculty shall nominate two external examiners and may nominate one or more internal examiners. The examiners may recommend that the candidate be examined orally or otherwise on the subject of his thesis and the general field of knowledge within which it falls. Such an examination will be conducted by examiners nominated by the appropriate faculty.

11. To qualify for the degree the thesis shall contain a significant contribution to knowledge within the scope of its subject.

12. The Faculty shall consider the reports of the examiners and report, with recommendations, to the Board. The Board, after considering these reports, may recommend that the candidate:

- (a) be awarded the degree subject to such minor amendments of the thesis as the examiners may have suggested;
- (b) be not awarded the degree, but be allowed to revise and resubmit his thesis within such period as the Board may allow;
- (c) be not awarded the degree and be not allowed to resubmit his thesis; or
- (d) be awarded an appropriate degree of Master subject to the concurrence of the appropriate faculty.

13. Two copies of a thesis and other material on which the degree is awarded shall be deposited in the Library.

Regulations allowed 21 December, 1967.

Amended: 16 Dec. 1971: 9; 21 Dec. 1972: 2; 15 Jan. 1976: 2, 3, 4, 5, 6, 9, 10.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

OF THE DEGREE OF
DOCTOR OF PHILOSOPHY
SCHEDULES

I: ACADEMIC STANDING

1. The academic standing required for acceptance (subject to section (a) of regulation 5) as a candidate for the degree is normally an Honours degree of Bachelor (with first or second class Honours) or a degree of Master of the University of Adelaide.

2. The Board may accept as a candidate for the degree a graduate who does not qualify under clause 1 but (a) has completed to the satisfaction of the Board at least one year of full-time postgraduate study and research and (b) passes a qualifying examination prescribed by the appropriate faculty and approved by the Board.

3. Provided that it is satisfied in each case, on the recommendation of the Head of the department and the faculty concerned, that the course of study undertaken and the academic standard reached are equivalent to those required of a candidate who is a graduate of the University of Adelaide, the Board may accept as a candidate for the degree a person who holds a degree of another university or a qualification acceptable to the University from an institution of tertiary education recognised for the purpose by the University.

4. The Board may also accept as a candidate for the degree, a person who is seeking enrolment under regulation 4(b), provided it is satisfied (a) that the person is of such academic standing as would be required of other candidates for the degree and (b) that his progress so far has been satisfactory.

5. A person who proposes to proceed to the degree by undertaking a course of study and research in education shall also hold the Diploma in Education of the University or a qualification accepted by the University as equivalent, and shall have at least three years' experience in teaching or in some other educational work approved by the University before enrolling for the degree.

The attention of intending candidates is specially drawn to regulation 5.

**BOARD OF STUDIES FOR URBAN AND
REGIONAL PLANNING**

REGULATIONS OF DEGREE

Master of Urban and Regional Planning (M.U.R.P.)

Regulations..... 918

OF THE DEGREE OF
**MASTER OF URBAN AND REGIONAL
PLANNING**

REGULATIONS

1. There shall be a degree of Master of Urban and Regional Planning and a Board of Studies for Urban and Regional Planning.

2. The Board of Studies for Urban and Regional Planning (hereinafter called the Board) shall consist of:

- (a) The Chancellor, the Deputy Chancellors, the Vice-Chancellor or his deputy, the Chairman, Department of Architecture, the Director of Studies for Urban and Regional Planning, the South Australian Director of Planning, a nominee of the Royal Australian Planning Institute, the Director of Environmental Studies, *ex officio*;
- (b) two members elected annually from amongst themselves by the candidates enrolled as candidates for the degree of Master of Urban and Regional Planning, in accordance with election procedures drawn up and approved by the Board;
- (c) four lecturers of the course other than staff of the Centre for Environmental Studies, appointed annually by the Council on the recommendation of the Board.

3. The Director of Studies for Urban and Regional Planning shall be responsible to the Board for the administration and co-ordination of the degree.

4. (a) The Board shall be responsible for the acceptance as candidates for the degree of applicants for admission to courses of study for the degree.

(b) A person seeking enrolment as a candidate for the degree shall apply to the Academic Registrar in such form as the Board shall prescribe and shall submit as part of his application a statement of his academic standing, accompanied in the case of a person who is a graduate of a university or institution other than the University of Adelaide by proof thereof, and in the case of a person who is not a graduate by supporting evidence, acceptable to the Board.

(c) Subject to availability of accommodation and facilities (and in the case of a candidate for some other higher degree to the concurrence of the faculty concerned also) the Board may admit to any of the courses of study other persons who are qualified for admission to the course or courses and whose work or studies are relevant to urban and regional planning.

5. The Board shall enquire into such other matters as the Council may from time to time determine.

6. The Board shall annually elect one of its members to be Chairman and may also elect from among its members a Deputy Chairman.

7. The Chairman of the Board shall:

- (a) at his own discretion, or on the request of the Chancellor or the Vice-Chancellor, or on the written request of two other members of the Board, convene meetings of the Board;
- (b) preside at meetings of the Board; and
- (c) subject to the control of the Board, exercise a general supervision over its administrative business.

8. Whenever the Chairman is absent from a meeting, the Deputy Chairman shall preside or, in the absence of a Deputy Chairman, the Board shall elect a Chairman for that occasion.

9. An applicant for admission to the course of study for the degree shall:

- (a) be qualified for admission to a degree of the University of Adelaide or of another university recognised for the purpose by the University of Adelaide; provided that subject to the approval of the Council the Board may, in special cases and subject to such conditions (if any) as it may prescribe, accept as a candidate for the degree a person who does not hold a degree of a university, but has given evidence satisfactory to the Board of his fitness to undertake work for the degree; and
- (b) have obtained the approval of the Board for his candidature.

10. A candidate may be admitted on probation. The period of probation shall not exceed six months in the case of a full-time candidate nor twelve months in the case of a part-time candidate. At the end of the period each candidate's performance shall be reviewed by the Board and his candidature confirmed, with or without special conditions, or terminated.

11. The Board may require the applicant to complete such additional preliminary work as it may prescribe before being accepted as a candidate for the degree.

12. To qualify for the degree a candidate shall undertake, and complete to the satisfaction of the Board, a course of full-time study and research extending over not less than two academic years or a course of part-time study and research over not less than three academic years.

13. Schedules defining the courses of study for the degree, the practical work required, the examinations to be passed by candidates and the requirements of the thesis resulting from the research shall be drawn up from time to time by the Board and approved by the Council. The Board shall appoint a supervisor or supervisors to guide the candidate in the work for his thesis.

14. The maximum number of candidates which may be enrolled in any course for the degree shall be determined from time to time by the Council on the recommendation of the Board and nothing in these regulations shall be held to bind the Council to provide any or all of the courses in any year.

15. If in the opinion of the Board a candidate for the degree is not making satisfactory progress the Board may, with the consent of the Council, withdraw its approval of his candidature and the candidate shall cease to be enrolled for the degree.

16. A candidate's progress shall be reviewed by the Board each academic year under the provisions of clause 4C of Chapter XXV of the Statutes.

17. The Board shall appoint a Board of Examiners under regulation 13 for the courses of study, the practical work and the thesis. Its Chairman shall be the Chairman of the Board of Studies.

18. No candidate may present himself for examinations or submit his thesis unless he has regularly attended such classes and has satisfactorily completed such written and practical work as may have been properly required of him.

19. A candidate shall lodge with the Academic Registrar three copies of his thesis prepared in accordance with directions given to candidates from time to time.*

20. The Board shall appoint two examiners of the thesis of whom one shall be external.

21. A candidate who fulfils the requirements of these regulations and satisfies the examiners may, on the recommendation of the Board, be admitted to the degree of Master of Urban and Regional Planning.

Regulations allowed 31 January, 1980.

*Published in "Notes and Instructions to candidates for Higher Degrees": see Table of Contents.

NOTE: Students proceeding to the degree of Master of Urban and Regional Planning under the old regulations will find the Regulations, Schedules and Syllabuses in the Calendar of the University for 1977, Volume II, pages 561-566. There will be no new enrolments in either the old or the new course in 1981.

**NOTES AND INSTRUCTIONS
TO CANDIDATES
FOR
HIGHER DEGREES**

NOTES AND INSTRUCTIONS TO CANDIDATES FOR HIGHER DEGREES

I. General

1. The degrees of Master and of Doctor (except the degree of Doctor of Philosophy) are administered by the faculty concerned. However, the degree of Doctor of Philosophy is common to all faculties, and accordingly responsibility for the administration of that degree is vested in a Board of Research Studies.

The attention of all candidates is drawn to the regulations and schedules of the degree to which they are proceeding, and to clause 2B of Chapter XXV of the Statutes.

2. A candidate's field of study must be approved by the appropriate faculty and, in the case of the degree of Doctor of Philosophy, by the Board of Research Studies. It may not be changed without similar approval.

3. A candidate for the degree of Master* in the Faculties of Agricultural Science, Architecture, Arts, Dentistry, Economics (degree of M.Ec. only), Engineering (under regulation 3 of the degree of M.E.), Mathematical Sciences, Medicine and Science and a candidate for the degree of Doctor of Philosophy pursues a course of research under the direction of a supervisor, who will report formally each year on the candidate's work and progress. In the case of a candidate for a master's degree, such report will be to the appropriate faculty; of a candidate for the Doctor of Philosophy degree, to the Board of Research Studies. The supervisor will also report whenever in his opinion the student is not making satisfactory progress in his work, is otherwise not fulfilling the conditions laid down for him, or appears unlikely to be able to submit a thesis, embodying the results of his research, of the required standard.

4. The supervisor will maintain fairly close contact with the student, who should regard it as his duty to keep his supervisor fully informed of the progress of his research, and to consult him about proposed future work and about the general planning of his thesis. If not consulted fairly frequently, the supervisor will satisfy himself that the research student is working satisfactorily.

5. The function of the supervisor is not to plan at all directly the work that the research student should do, rather to provide a trained mind upon which the student may test his ideas and so be led to develop his own critical faculties. The thesis itself should represent largely the student's own work, assisted only by the general aid obtained by discussion with the supervisor as to the most satisfactory method of developing and presenting his material. For a candidate whose mother tongue is not English some help with the syntax may be given with the approval of the supervisor. The thesis must conform with the specifications given below.

6. If more than one supervisor is appointed, the candidate shall consult all such supervisors on all matters of general concern to his work and thesis.

II. Specifications for Theses

1. Preparation.

(a) The responsibility for the layout of the thesis and selection of the title rests with the candidate after discussion with his supervisor, and the completed thesis should be shown to the supervisor before submission. In order to save delay in the appointment of examiners a candidate is advised to give three months' notice in writing to the Academic Registrar of intention to submit a thesis, and to give its proposed title. He should also forward to the Academic Registrar three copies of a summary of the thesis when the thesis is ready for binding.

(b) The thesis of a candidate for the degree of Doctor of Philosophy should be written and submitted before the candidate leaves the University. In exceptional circumstances the Board of Research Studies may give permission for the thesis to be completed elsewhere.

*A person enrolled as a part-time or external candidate for a Master's Degree who contemplates transferring to enrolment for the degree of Ph.D. should be aware of the regulation requiring that a minimum of half time working on his research programme within the University is mandatory, and that a candidate for the Ph.D. degree cannot back-date the passing of any qualifying examination that may have been necessary.

(c) **Aids to thesis and report writing:** A list of useful guides and style manuals, may be obtained on request from the Information Services Librarian of the Barr Smith Library.

2. Typing.

(a) A thesis should normally be typed on size A4 paper on one side of the paper only with double spacing. The top type-written copy should be prepared on bond paper. Quotations and footnotes may be typed in single spacing.

Work previously published, if submitted, may be in printed form.

Other forms of presentation may be allowed, if the Librarian approves. In such cases bond paper should be used. If copies are produced by xerography the original typewritten copy should still be one of the copies submitted. If copies are produced from wax stencils or litho-offset plates great care should be taken to ensure a clear black image with no smudging. Those copying processes which use chemically coated paper are unsuitable for the reproduction of theses.

(b) Margins should not be less than 35 mm on the left-hand side and 15 mm on the other three sides to allow for binding and trimming of an acceptable standard.

(c) The thesis should incorporate in the following order (i) a title page giving the title of the thesis in full, the names and degrees of the candidate, the name of the department of the University associated with the work and the date when submitted for the degree; (ii) a table of contents; (iii) a summary in not more than 500 words; (iv) a signed statement to the effect that the thesis contains no material which has been accepted for the award of any other degree or diploma in any university and that, to the best of the candidate's knowledge and belief, the thesis contains no material previously published or written by another person, except when due reference is made in the text of the thesis; (v) an acknowledgment of any help given or work carried out by another person or organisation; (vi) the main text; (vii) appendices, if any; (viii) bibliography.

Additional pages or other material not suitable for binding should be placed last and treated as indicated below.

3. Diagrams and Figures.

The following are general suggestions for normal practice, but they may be varied in special cases with the approval of the Librarian:

(a) Diagrams and figures, etc., should preferably be drawn or photographed on size A4 paper and bound in the appropriate place in the text. If it is necessary to mount photographs the mounting should be on paper somewhat heavier than that of the other pages, and great care should be taken to avoid wrinkling the paper or distorting the shape of the volume.

(b) Figures should form a right-hand page, with the top of the figure at the top or the inside edge of the page. The legend should be placed at the bottom or the right-hand edge of the page or, if necessary, on the page facing the figure.

(c) Tables should be inserted in the appropriate place in the text, except that lengthy or bulky tables should appear as an appendix.

(d) Folded diagrams, maps, tables, etc., should read as right-hand pages when open.

4. Binding.

(a) The thesis must be sewn and bound with dark cloth on stiff covers. (A spring-type or screw-type binder is unacceptable. Stapling and plastic or "perfect" binding without sewing are also unacceptable.)

(b) During binding the edges should be trimmed.

(c) On the spine of the thesis should be given, in gold lettering of suitable size, normally reading from the top to the bottom, the title of the thesis, shortened if necessary, followed by the candidate's surname. Where the width of the spine allows, the lettering may be placed horizontally, with the title of the thesis near the top of the spine and the candidate's surname near the middle.

(d) When published papers are submitted as evidence they should normally be bound near the back of the thesis as an appendix. In the case of published papers of unusual size it may be desirable to bind them in a separate volume. If they have been bound by the publisher it is desirable to keep them in a special case made and lettered to simulate a bound volume of a thesis.

Supplementary material such as folded maps and other large folded sheets may be placed in a pocket inside the back cover of the bound thesis.

Supplementary material such as reels of magnetic tape or microfilm which cannot readily be kept in a pocket should be placed in a special case made and lettered to simulate a bound volume of the thesis.

A supplementary case or additional volume of a thesis should be distinguished by a volume number but should otherwise be uniform with the first part of the thesis in respect to colour, lettering and, as far as possible, size.

5. Availability.

(a) Three bound copies of the thesis, including the top typewritten copy (or approved alternative), and two additional loose copies of the summary should be lodged with the Academic Registrar. If the thesis is accepted for the award of the degree the Academic Registrar will distribute two copies, including the top copy, to the University Library, and one copy to the Head/Chairman of the appropriate University department.

(b) Subject to the author's consent, one copy of the thesis deposited in the Library will be available for loan.

(c) Subject to the author's consent, the thesis will be available for photocopying.

(d) The author will be asked after the award of the degree to give his consent to (b) and (c) in writing. Such notice of consent will be inserted by the Academic Registrar in the copies deposited in the Library.

(e) If the author's consent is not given to section (b) the thesis will in any case become available for loan two years after the award of the degree.

RULES

| | |
|--|------------|
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RULES FOR THE UNIVERSITY LIBRARY

I. Opening and Closing of the Library

1. Except on Saturdays, Sundays, public holidays and such other occasions as the Council may direct that it be closed, the Library shall be open from 9 a.m. to 5 p.m. During the academic year it shall also be open from 2 p.m. to 5 p.m. on Saturdays, from 1.30 p.m. to 5.30 p.m. on Sundays, and to 10 p.m. on such days as the Library Committee may direct; and during certain periods of the academic year it shall be open from 10 a.m. to 6 p.m. on Saturdays, from 1.30 p.m. to 5.30 p.m. on Sundays and public holidays, and to 11 p.m. on such days as the Library Committee may direct.

II. Persons Entitled to Use the Library

2. The following persons are entitled to read in the Library:

Members and past members of the Council.

Graduates of the University or of universities recognised by the University.

Members, full-time or part-time, of the academic staff of the University, and members of any Faculty or Board of Studies of the University.

Officers of the administrative staff.

Heads and Deputy Heads of affiliated colleges.

Professional officers, laboratory managers and senior laboratory technicians.

Students enrolled for courses of study in the University.

3. Members of the ancillary staff of the University whose status is not listed in rule 2 may be permitted to read in the Library.

4. Other persons who wish to study in the Library may, after application to the Librarian, be permitted by the Library Committee to do so for specified periods.

5. Every person entitled to use the Library may be required to produce to the Librarian or officer in charge of the Library for the time being or any authorised person proof of his identity and status. No person shall refuse or neglect to produce such proof.

III. Conduct of Readers

6. No person shall remove any book, periodical or other item from the Library, except in accordance with the provisions of section IV of these rules.

7. (a) No person shall interfere with the comfort of another person in the Library, or cause damage in the Library, or disfigure any book, periodical or other item.

(b) No person shall take any bag or case into the Library.

(c) No person shall reserve a reading place during his absence from the Library.

(d) No person shall smoke in the Library except in the rooms prescribed by the Committee.

(e) Any person who shall commit any breach of rules 5, 6 or 9 hereof or of paragraphs (a), (b), (c) or (d) of this rule 7:

(i) may be excluded or removed from the Library by the Librarian or officer in charge for the time being; and

(ii) shall make good any damage caused by such breach; and

(iii) may be deprived of the use of the Library for such time as the Council may determine.

(f) The Librarian may report any breach of rules 5, 6 or 9 hereof or of paragraphs (a), (b), (c) or (d) of this rule 7 to the Board of Discipline, and the Board of Discipline may take such action as it thinks fit.

IV. Borrowing of Books

8. The following users are entitled to borrow books, periodicals and other items approved for borrowing:

Members and past members of the Council.

Professors, readers, senior lecturers, lecturers, senior research fellows, research fellows, post-doctoral fellows, senior tutors, senior demonstrators, tutors, demonstrators, and other persons of equivalent status holding full-time or part-time teaching or research appointments in the University.

The Registrar, Academic Registrar and Bursar.

Heads and Deputy Heads of affiliated colleges.

Professional officers, laboratory managers and senior laboratory technicians.

Such bodies, institutions and other persons as the Chairman of the Library Committee and the Librarian may from time to time approve.

9. Every borrower may be required to produce proof of his identity or status at the loan desk. No person shall refuse or neglect to produce such proof.

10. Persons whose status is listed in rule 8 may have on loan at any time up to forty items, but with allowance for more at the Librarian's discretion. Loans of books from the main collection shall be for a period of four weeks in the first instance, with the option of a ten-week loan on request, or a fifty-two week loan at the Librarian's discretion. A loan may be renewed for a further period at the Librarian's discretion if in the meantime there has been no other application for the item.

11. Short-term visitors to departments may borrow books and periodicals. They may have on loan at any time up to twenty items, but with allowance for more at the Librarian's discretion. Loans of books shall be limited to a period of four weeks in the first instance. A loan may be renewed for a further period of four weeks at the Librarian's discretion if in the meantime there has been no other application for the item.

12. Members of the ancillary staff of the University whose status is not listed in rule 8 and who make written application to the Librarian, and the spouses of persons whose status is listed in rule 8, may borrow books except books from the reserve collection or other books marked for limited loan. They may not borrow periodicals. They may have on loan at any time up to eight items, but with allowance for more at the Librarian's discretion. Loans shall be limited to a period of fourteen days in the first instance. A loan may be renewed once only for a further period of fourteen days at the Librarian's discretion if in the meantime there has been no other application for the item.

13. (a) Research scholars and students enrolled as candidates for higher degrees may borrow books but not periodicals except periodicals in accordance with rule 15. They may have on loan at any time up to twenty items, but with allowance for more at the Librarian's discretion. Loans of books shall be limited to a period of four weeks in the first instance. A loan may be renewed once only for a further period of four weeks at the discretion of the Librarian if in the meantime there has been no other application for the item.

(b) Enrolled undergraduates, and students proceeding to the Diploma in Education, may borrow books but not periodicals except in accordance with rule 15 in the case of certain categories of undergraduate.

(c) Graduates of the University or of other universities approved by the University, and such other persons as the Chairman of the Library Committee and the Librarian may from time to time approve, may borrow books but not periodicals from the Barr Smith Library and the Law Library and the Medical Library, on paying an annual fee of \$20.

(d) Graduates of the University or of other universities approved by the University, and such other persons as the Chairman of the Library Committee and the Librarian may from time to time approve, may, if they are members of the profession of medicine, dentistry or physiotherapy or of a related profession, borrow books from the Barr Smith Library, the Law Library and the Medical Library, and periodicals both bound and, at present, unbound from the Medical Library only on paying an annual fee of \$30.

(e) Borrowing under this rule 13 shall be subject to the following conditions except by special arrangement:

- (i) A borrower, other than one mentioned in 13(a), may have on loan at any time up to eight volumes, but with allowance for more at the Librarian's discretion.
- (ii) Loans of books to a borrower, other than one mentioned in 13(a), shall be for no longer than fourteen days in the first instance. A loan may be renewed once only for a further period of fourteen days at the Librarian's discretion if in the meantime there has been no other application for the item. A volume which has been on loan for fourteen days must be returned within four days of the date of a notice recalling it. A borrower who fails to return a recalled item within this four-day period shall be awarded two demerit points for each day by which the four-day period is exceeded.

14. The following provisions shall apply to all borrowers:

- (a) Items placed on reserve and available for restricted loan within the Barr Smith Library may also be made available for overnight loan in the period beginning 7.30 p.m. and ending 15 minutes before the Library closes at either 10 p.m. or 11 p.m. and in the period beginning one hour before and ending 15 minutes before the Library closes at any other time; and items so lent must be returned to the Library by the specified time. A borrower who fails to return any such item by the specified time, if late return prevents another reader from using it when he has a right to it, or if it is recalled, shall be awarded two demerit points for each hour (to a total of ten hours in any day) by which the time specified for return of the item is exceeded.
- (b) Any item which is borrowed from the open shelves for overnight loan must be returned to the Library by the specified time. A borrower who fails to return any such item by the specified time shall be awarded one demerit point for each hour (to a total of ten hours in any day) by which the time specified for return of the item is exceeded.
- (c) Any item which is borrowed from the open shelves for a period of three days must be returned by the specified time. A loan may be renewed once only for a further period of three days at the discretion of the Librarian if in the meantime there has been no other application for the item. A borrower who fails to return any such item by the specified time shall be awarded five demerit points for each day by which the loan period is exceeded, the day of return being counted as one day.
- (d) No item is recognised as having been returned to the Library until it is received at one of the official book-return points. It is the responsibility of the borrower to ensure that any item which he borrows from the Library is returned to an official book-return point.

15. Members of the teaching and research staff whose status is not listed in rule 8, and postgraduate students enrolled as candidates for higher degrees, may borrow bound and unbound periodicals from the Barr Smith Library on production of their library passes but only if such passes are suitably endorsed or coded. Students who are enrolled in the fourth or a later year of a course for a degree, or in a course for a postgraduate diploma other than the Diploma in Education, may borrow from the Barr Smith Library bound volumes of periodicals related to their courses on production of their library passes but only if such passes are suitably endorsed or coded. Special provisions may apply to the Medical Library and the libraries within the Faculties of Agricultural Science, Law and Music.

16. No periodical shall be borrowed until it has been in the Library seven days. Every bound or unbound periodical then borrowed for departmental circulation or for personal use must be returned within seven days. The loan of a bound periodical may be renewed for a further period of seven days at the discretion of the Librarian if in the meantime there has been no other application for it.

17. No book shall be borrowed until it has been in the Library seven days. Otherwise, any book except those specially reserved may be borrowed. Specially reserved books may be borrowed only by permission of the Library Committee.

18. Any publication which, although classified as a periodical, is acknowledged by the Librarian to be monographic in character, may be borrowed on the conditions which would have applied if it had been classified as a book.

19. Except as provided in rule 14(a) books and periodicals may be borrowed until thirty minutes before closing time on weekdays and until fifteen minutes before closing time on Saturdays and Sundays.

20. For each item borrowed the loan must be recorded in a manner approved by the Librarian. No item approved for borrowing may, in any circumstances, be taken out of the Library until so recorded.

21. The Librarian may recall an item at any time, and thereupon it must be returned within four days of the date of the notice. A borrower who fails to return any such item within this four-day period shall be awarded two demerit points for each day by which the four-day period is exceeded.

22. All items on loan from the Library shall be returned on a date to be fixed each year by the Chairman of the Library Committee and the Librarian for the annual check.

23. (a) For every four demerit points awarded to him a borrower shall be liable to the suspension for one day of his right to borrow from the open collection of the Library.

(b) The suspension of a borrower's right to borrow from the open collection shall take effect from the date on which the Librarian issues a notification to him that the demerit points awarded to him during the current calendar year have reached a total of sixty.

(c) If possible, the Librarian shall warn a borrower when the demerit points awarded to him during the current calendar year reach a total of forty.

24. A borrower of an item shall be held responsible for any loss, injury or mutilation of it or disfigurement of it by writing or other marks, which occurs while the item is on loan to him, and shall be required to pay the full cost of replacing or repairing such an item and may also, at the discretion of the Council, be deprived of the use of the Library.

25. Appeals by borrowers against suspension of their borrowing rights, and complaints by the Librarian against library users who seriously or persistently infringe library rules, shall be referred to a Library Tribunal of six members comprising the Chairman of the Library Committee, two student members (an undergraduate and a postgraduate student who is not a member of the academic staff), two members of the academic staff and one member of the library staff. The Library Tribunal, acting within such powers as the Council may delegate to it, shall decide or recommend to the Council on the appeals and complaints that are referred to it.

26. No items lodged in departments of the University by permission of the Library Committee may be borrowed for use outside the departments except through the Barr Smith Library.

27. The number of items issued on interlibrary loan to another institution shall be limited to twenty at a time, but with allowance for more at the Librarian's discretion.

28. The Council may vary any of the foregoing rules at any time either in specific cases or generally.

29. Until the introduction of a computerised circulation system the Library Committee may vary the provisions of the foregoing rules so far as they relate to demerit points. Any such variation of these rules shall be displayed in a prominent place in the Library and shall become binding from the time it is so displayed.

V. Rules for the Music Library

30. Teachers in the Elder Conservatorium are entitled to borrow books or music from the Music Library. Students may borrow music on the written recommendation of a teacher, but must not have in their possession more than two copies at the same time.

31. Subject to the approval of the Council the rules relating to the suspension of borrowing privileges may be varied in the case of the Music Library.

32. In all other respects the foregoing rules of the University Library shall apply to the Music Library.

VI. Rules for the Medical and Law Libraries

33. Members of the Australian Physiotherapy Association (S.A. Branch) shall be entitled to use the Medical Library in accordance with the terms of the agreement between the Branch and the University. The agreement may be seen in the Medical Library.

34. Subject to the approval of the Council the rules relating to the suspension of borrowing privileges may be varied in the case of the Medical and Law Libraries.

35. In all other respects the foregoing rules of the University Library shall apply to the Medical and Law Libraries.

ADDENDUM

N.B.: In addition to the foregoing rules, attention is drawn to the restrictions on photocopying of books and periodicals imposed by the Copyright Act (1968). Measures are currently being taken by the Library:

- (a) to draw the attention of readers to the relevant sections of the Copyright Act, and
- (b) to exert appropriate control of the Library's photocopying machines to prevent infringement of the law.

Such regulations as may be needed to comply with the requirements of the Copyright Act will be introduced from time to time by the Council on the advice of the Library Committee which may approve the withdrawal of certain library privileges from anyone found in breach of these regulations.

LABORATORY RULES AND RULES APPLICABLE TO STUDENTS ON UNIVERSITY PREMISES

A. General

1. The attention of all students is drawn to the by-laws made under the University of Adelaide Act, 1935-1964, and The University of Adelaide Act, 1971-1978, which are published in the University Calendar (Volume I) and are exhibited on notice boards throughout the University.

2. The Head of a department may exclude any student from any class in that department for any cause he shall deem sufficient; and he shall report every such exclusion, and the grounds for it, to the Council through the Chairman of the Board of Discipline. The Council may reverse, vary or confirm the exclusion upon such terms as it shall think fit. The fees paid by any student so excluded shall not be refunded to him unless the Council shall otherwise determine.

3. The possession of fireworks, home-made explosives or explosive material of any kind on the University grounds or in any University building is forbidden.

B. Laboratories

1. For students taking regular courses involving laboratory work in the University an appropriate laboratory will be open daily during term time (Saturdays and holidays excepted) at such hours as shall be considered necessary by the Head of the department concerned. Persons engaged in advanced work or original research may work at such additional times as the Head of the department may arrange.

2. The facilities of a laboratory will also be made available for original research carried on by students or graduates not proceeding to a degree in the University at such times and under such conditions as the Head of the department may determine; the fee for use of a laboratory and its facilities, and the charges for materials, to be determined in each case.

3. Whenever necessary and possible, each student will have a definite working place and locker or drawer assigned to him, which he may not change without permission. To avoid congestion, students should not move about the laboratories unnecessarily.

4. Paper and refuse of any kind must be placed in the receptacles provided for the purpose. No solid material of any kind shall be thrown into sinks.

5. Students are responsible for the cleanliness of their apparatus and work places or benches, which must be left clean and tidy after each practical session.

6. All preparations and equipment made from materials supplied by the University shall remain the property of the University.

7. Large or expensive pieces of apparatus will be supplied for use by students only on condition that any damage or breakage is to be made good by the student causing the damage or breakage, on such basis as the Head of the department may determine.

8. No experiments of a dangerous nature may be performed without the express sanction of the Head of the department concerned.

9. Any accident must be reported at once to the person currently in charge of the laboratory.

10. The Head of a department may impose a fine not exceeding \$10 for any breach of discipline, misconduct, misuse of apparatus or reagents, or waste of gas, water or electricity. He shall report in writing to the Registrar the amount of such fine, and the reason for it; and the fine shall be paid to the Registrar within seven days of the time of its imposition.

RULES FOR STUDENTS USING THE ECONOMICS STATISTICS LABORATORY

1. Conduct of users

The Laboratory is to be used only by Economics or Commerce students doing calculations, audio-visual carrel or computer augmented courses. Users must refrain from conduct which will prevent the effective use of the Laboratory by others.

2. Times of use

The room shall be open at such times as may be determined by the Dean of the Faculty of Economics in consultation with the Faculty.*

3. Use of computer facilities

The computer facilities may be used only by authorised users and at all times their use is subject to the control of the Laboratory Supervisor.

Under no circumstances may any equipment be removed from the Laboratory.

4. General

Any student not observing the above rules shall be subject to disciplinary action.

*All students: Mon. to Fri. 9.00 a.m. to 5.00 p.m. Postgraduate students: After hours by arrangement.

RULES FOR STUDENTS USING THE NAPIER BIRKS ROOM

1. Conduct of users

The room is to be used for purposes of study only. Users must refrain from conduct which will prevent the effective use of the room by others.

2. Persons entitled to use the room

The room is available for use by students enrolled for second-year or subsequent subjects in the Departments of Economics and Commerce.

3. Times of use

The room shall be open at such times as may be determined by the Dean of the Faculty of Economics in consultation with the Faculty.†

4. Use of books, periodicals, statistical material

All such material must be returned to the desk of the Librarian after use.
In no circumstances may such material be removed from the room.

5. Use of electronic calculators

Electronic calculators may only be used for short calculations. All other calculations should be done in the Statistics Laboratory.

6. General

Any student not observing the above rules shall be subject to disciplinary action.

† Mon. to Fri. 9.30 a.m. to 5.30 p.m. and Wed. 6.00 p.m. to 8.00 p.m.

RULES OF THE COMPUTING ANNEXES

1. These rules shall apply to any area housing equipment connected to the central computer, or used for collection and dissemination of computer material, which areas are hereby defined as Computing Annexes, and to such other areas as may be declared by the Council to be Computing Annexes. Terminal rooms and laboratories are Computing Annexes for this purpose.

In these rules the term "supervisor" means the person appointed in consultation with the Director of the Computing Centre by the Chairmen of Departments controlling the Annexe, or by the Director of the Computing Centre. A supervisor may appoint a deputy.

2. These rules are subservient to any statutes, regulations or rules relating to discipline within the University generally.

3. A Computing Annexe will be available for use by such persons as may be approved by the supervisor, who shall keep adequate records of such approvals.

4. The supervisor shall open the Annexe during normal working hours, and during such extended periods as may in his judgement be desirable and can be adequately supported.

5. Users of Annexes shall not conduct themselves in a way which will interfere with other users, either directly, by interference with equipment, or otherwise.

In particular, users must—

- (a) obey directions by the supervisor designed to maintain safe, clean and tidy working conditions;
- (b) not remove materials supplied or produced, except insofar as they may be supplied or produced for the benefit of the individual user;
- (c) not operate any item of equipment specified by the supervisor unless authorised to do so by the supervisor;
- (d) immediately report any machine failure to the supervisor;
- (e) conform to rules made by the supervisor regarding logging, documenting or otherwise controlling the use made of the equipment; and
- (f) not cause unauthorised work to be carried out by or through the equipment.

6. A supervisor may exclude any person from the Annexe, for a period not exceeding 24 hours, if that person fails to observe the rules of the Annexe. Written notice of such exclusion shall, within 24 hours, be given to the Director of the Computing Centre.

Certification of heavy users of the Cyber 173

The following detailed arrangements have been approved and will come into effect in mid-1981:

1. Heavy users are defined to be those using more than \$500 worth of computing in any one month, or \$5000 per annum. If necessary, this definition will apply retrospectively to the extent that offenders will have their computing activities terminated until competence is demonstrated. No exceptions will be considered.

2. Competence is defined to mean passing, as relevant, written tests to be set by the Centre. For most users there will be two tests, covering the elements of the operating system and a programming language. For users utilising only pre-written large packages, including SPSS, to the extent defined in 1., only the first test will be required.

Tests may be taken at any time. (The first offering will be later this year.) Note, however, that the Fortran test includes a year's experience, as defined below.

3. As an aid to meeting the requirements, the Centre will offer:

- (a) an "Introduction to NOS/BE", occupying two or more days, and given **once** a year, in May.

No programming knowledge is required. This class will prepare students for the first test on the elements of the operating system.

- (b) the existing series of 3 classes in Fortran. Heavy users will be required to reach the standard of the third class, which itself requires a year's experience after the second class.

Students who have taken Unit 2 of Computing Science II will be given "status" in the second Centre class. All other elementary Fortran classes will be taken as equivalent to the first Centre class.

4. The above requirements do not apply to other than heavy users. Obviously, those near the border line are encouraged to attain these standards, as indeed are all others.

5. All heavy users will be prohibited from operating under multiple job codes unless the complete set of codes is first lodged with the Centre. Deliberate avoidance of these rules will result in termination of all computing for the offender until otherwise decided.

RULES FOR THE CONDUCT OF EXAMINATIONS

1. No candidate will be allowed to enter the examination room during any examination more than half-an-hour after the time fixed for the beginning of the written or practical work in that examination.

2. No candidate will be allowed to leave the examination room during any examination before half-an-hour has elapsed from the time fixed for the beginning of the written or practical work in that examination nor during the last quarter of an hour.

3. Any candidate who shall leave the examination room shall be allowed to return to it during that examination only at the absolute discretion of the Officer-in-Charge. A candidate who wishes to leave the room temporarily **must therefore obtain the consent of a Supervisor before doing so.**

4. The attention of candidates is drawn to the following statute:

"A candidate must not during any examination whatever:

- (a) have in his or her possession any book or notes or any other means whereby he or she may improperly obtain assistance in his or her work; or
- (b) directly or indirectly give assistance to any other candidate; or
- (c) permit any other candidate to copy from or otherwise use his or her papers; or
- (d) directly or indirectly accept assistance from any other candidate; or
- (e) use any papers of any other candidate; or
- (f) by any other improper means whatever obtain or endeavour to obtain, directly or indirectly, assistance in his work, or give or endeavour to give, directly or indirectly, assistance to any other candidate; or
- (g) be guilty of any breach of good order or propriety.

Any candidate who shall be guilty of a breach of any of the provisions of this regulation shall lose that examination; and, if detected at the time, shall be summarily dismissed from the examination room; and shall be liable to such further punishment, whether by exclusion from future examination or otherwise, as the Council may determine."

5. When the five-minute warning before the end is given, **all candidates must remain seated** until their books have been collected. No candidate may leave his or her seat until all answers have been collected and the announcement is made that candidates may leave the room.

Instructions to Candidates

1. Read carefully the directions printed on the front of the examination answer book and any directions that may be printed at the head of the examination paper.
2. Communicating with Examiners prior to the publication of the examination results is forbidden. Candidates who feel that they have a genuine claim for enquiry should state their cases in writing to the Academic Registrar.

RULES RELATING TO THE UNION FEE

1. Every student proceeding to a degree or a diploma of the University and such other students as the Council may from time to time decide shall, unless exempted by the University Council from paying such fees or unless such fees are reduced or demitted by the University Council, pay

- (i) an Adelaide University Union entrance fee of \$20 in March of the year of first enrolment; and
- (ii) an Adelaide University Union annual fee in March each year. The annual fee payable for 1981 shall be as follows, depending on the academic workload of each student:

Students enrolled for a bachelor's degree or for a diploma

| | | |
|-----------------------|-------------------------------|---------|
| (a) full fee | (over 75% workload) | — \$140 |
| (b) three-quarter fee | (over 50% up to 75% workload) | — \$105 |
| (c) one-half fee | (over 25% up to 50% workload) | — \$70 |
| (d) one-quarter fee | (up to 25% workload) | — \$35 |

Students enrolled for a higher degree

| | |
|------------------------|---------|
| (a) Full-time students | — \$140 |
| (b) Part-time students | — \$70 |

2. If such fees are not paid by 31 March, every such student liable therefor shall in addition pay a late fee of \$2 for each month or part of a month after 31 March until the date of payment, subject to a maximum of \$18 in respect of any one student.

3. All such fees shall be collected by the University on behalf of the Adelaide University Union. The University shall account to the Union for all such fees collected, and the Union shall submit to the University audited annual statements of income and expenditure. Until payment such fees shall be a liquidated debt for which the University may, after consultation with the Adelaide University Union, sue in a court of competent jurisdiction.

4. (i) Any student who wishes to have his or her entrance fee and/or annual fee reduced or demitted shall in the first instance submit a written application to the Secretary of the Union Council setting out the grounds thereof.
- (ii) The Union Council, after considering the application, shall make a ruling on behalf of the University Council. A student who is not satisfied with the Union Council's ruling may make an appeal to the University Council.

TIME-TABLES FOR 1981

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
 Afternoon and evening lectures will commence at the time shown in the time-tables.
 All lectures are of fifty minutes duration.

| | |
|--|-----|
| FACULTY OF AGRICULTURAL SCIENCE: | |
| B.Ag.Sc. | 938 |
| FACULTY OF ARCHITECTURE AND PLANNING: | |
| B.Arch.St. | 940 |
| FACULTY OF ARTS: | |
| B.A. | 942 |
| Dip.Ed. | 947 |
| B.Ed. and M.Ed. (Course Work) | 947 |
| Late Afternoon and Evening Lectures | 964 |
| FACULTY OF DENTISTRY: | |
| B.D.S. | 948 |
| FACULTY OF ECONOMICS: | |
| B.Ec. | 949 |
| M.B.M. Course Work | 950 |
| Late Afternoon and Evening Lectures | 964 |
| FACULTY OF ENGINEERING: | |
| B.E. | 951 |
| FACULTY OF LAW: | |
| LL.B. | 963 |
| FACULTY OF MATHEMATICAL SCIENCES: | |
| B.Sc. | 956 |
| FACULTY OF MEDICINE: | |
| M.B., B.S. | 962 |
| FACULTY OF MUSIC: | |
| B.Mus. | 963 |
| FACULTY OF SCIENCE: | |
| B.Sc. | 956 |

FACULTY OF AGRICULTURAL SCIENCE
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF AGRICULTURAL SCIENCE

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|--|--------|---------|-----------|----------|--------|
| FIRST- AND SECOND-YEAR SUBJECTS | | | | | | |
| See under the Faculties of Economics, Mathematical Sciences and Science respectively. | | | | | | |
| WX02 | Agriculture II— | | | | | |
| | Lectures..... | 9 | 11 | — | — | 11 |
| | Tutorial ‡..... | — | — | — | — | — |
| | Practical†..... | — | — | 1.30-4.30 | — | — |
| THIRD-YEAR SUBJECTS* | | | | | | |
| WB03 | Agricultural Biochemistry I— | | | | | |
| | Lectures..... | 2 | 9 | — | — | — |
| | Practicals..... | — | 12-6 | — | — | — |
| WP03 | Agricultural Microbiology— | | | | | |
| | Lectures..... | — | — | 4 | — | — |
| | Practicals..... | — | — | — | 4-6 | — |
| WX03 | Agriculture III— | | | | | |
| | Lectures..... | — | — | — | 9-2 | — |
| | Practicals..... | — | — | 9-12 | — | — |
| WN03 | Animal Physiology & Production I— | | | | | |
| | Lectures..... | — | 11 | 3 | — | — |
| | Practicals..... | — | — | — | — | 9-12 |
| WY73 | Biometry— | | | | | |
| | Lectures..... | 3 | — | 2 | — | — |
| | Tutorials..... | 4 or 5 | — | — | — | — |
| WF03 | Crop Physiology— | | | | | |
| | Lectures..... | 9 | 10 | — | — | — |
| | Practicals..... | — | — | — | 10-1 | — |
| WE03 | Crop Protection— | | | | | |
| | Lectures..... | — | — | — | 3 | 12 |
| | Practicals..... | 10-1 | — | — | — | — |
| EE43 | Economics of Natural Resource Use— | | | | | |
| | Lectures..... | — | 12, ‡ | — | — | — |
| | Tutorial..... | — | 2 | — | — | — |
| EE63 | Farm Prices and Policy— | | | | | |
| | Lectures..... | — | 3-4 | — | — | — |
| | Tutorial..... | — | ‡ | — | — | — |
| QT02 | Mathematical Statistics II— (See B.Sc. in Faculty of Mathematical Sciences) | | | | | |
| WB13 | Soil Science I— | | | | | |
| | Lectures..... | 4 | — | — | — | 2 |
| | Practicals..... | — | — | — | — | 3-6 |
| FOURTH-YEAR SUBJECTS* | | | | | | |
| WB04 | Agricultural Biochemistry II— | | | | | |
| | Lectures..... | 9 | — | 9 | — | 10 |
| | Practicals..... | 2-6 | — | 2-6 | — | — |
| WX04 | Agriculture IV— | | | | | |
| | Lectures/Seminars..... | — | — | 10-1 | — | — |
| WA74 | Agronomy— | | | | | |
| | Lectures..... | 9 | — | 9 | — | 10 |
| | Practicals..... | 2-6 | — | 2-6 | — | — |

NOTE: Lectures in all subjects taken at the Waite Agricultural Research Institute will commence at ten minutes past the hour shown in the time-tables.

*Any student who is apparently unable to pursue a combination of subjects due to a clash in the hours set aside in this time-table for work in that subject should consult an Assistant to the Dean before making a final decision.

‡ Time to be arranged.

† At Waite Agricultural Research Institute.

FACULTY OF AGRICULTURAL SCIENCE—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF AGRICULTURAL SCIENCE
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|---|-------------|--------------------|-------------|-------------------|-------------|
| | FOURTH-YEAR SUBJECTS* (Contd.) | | | | | |
| WN04 | Animal Physiology & Production II— Lectures Practicals | 11 — | — — | — — | 12 2-6 | 12 2-6 |
| EE03 | Economics III (Ag. Sc.)— (See B.Ec. in Faculty of Economics) | | | | | |
| WE04 | Entomology— Lectures Practicals | 10 — | — 9-1 | — 2-6 | — — | 9, 11 — |
| SI03 | Genetics III— Lectures Practicals Tutorial | — — — | 10, 12 2-5 9 | — — — | 9, 10 2-5 — | — — — |
| WF04 | Horticultural Science— Lectures Practicals | 11 — | — — | — — | 11, 12 — | 12 2-6 |
| QT03 | Mathematical Statistics III— (See B.Sc. in Faculty of Mathematical Sciences) | | | | | |
| WA84 | Plant Breeding and Crop Genetics— Lectures Practicals | 10 2-6 | — — | — 2-6 | — — | 9, 11 — |
| WP04 | Plant Pathology— Lectures Practicals | 12 — | — 2-6 | — — | 9, 10 2-6 | — — |
| WS04 | Soil Science II— Lectures Practicals | 10 — | — 9-1 | — — | — 2-6 | 9, 11 — |

NOTE: Lectures in all subjects taken at the Waite Agricultural Research Institute will commence at ten minutes past the hour shown in the time-tables.

*Any student who is apparently unable to pursue a combination of subjects due to a clash in the hours set aside in this time-table for work in that subject should consult an Assistant to the Dean before making a final decision.

FACULTY OF ARCHITECTURE AND PLANNING
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARCHITECTURAL STUDIES
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|--|--------|---------|--------------|--------------------|--------------|
| FIRST-YEAR SUBJECTS | | | | | | |
| RS31 | Art History & Theories— | | | | | |
| | Lectures..... | — | 10 | 11 | — | — |
| | Tutorials*..... | — | 11(a) | 10(b) | — | — |
| RS01 | Building Studies I— | | | | | |
| | Lectures..... | 2 | — | — | 2 | — |
| | Practicals**..... | 3-5(A) | — | — | 9-11(B) 11-1(C) | 3-5(D) |
| | Tutorials*..... | — | — | — | 9-11(a) 11-1(b) | — |
| RS11 | Design Studies I— | | | | | |
| | Lectures..... | — | — | — | — | 9 |
| | Tutorials*..... | 9(a) | — | 9(b) 9(c) | 4(d) | — |
| | Practicals**..... | — | — | 2-4(A) | — | 11-1(B) |
| RS21 | History & Theories of Architecture I— | | | | | |
| | Lectures..... | 12 | — | 12 | — | — |
| | Tutorials..... | — | 12 | — | 2 | — |
| RS41 | Visual Communication— | | | | | |
| | Lectures..... | — | — | — | — | 2 |
| | Tutorial..... | 10-1 | — | — | — | — |
| SECOND-YEAR SUBJECTS AND HALF SUBJECTS | | | | | | |
| RS12 | Design Studies II— | | | | | |
| | Lectures..... | — | — | 10 | — | 10 |
| | Tutorials*..... | — | 2(a) | — | — | 2(b) 2(c) |
| | Practicals..... | 2-5(A) | — | — | 2-5(B) | — |
| RS22 | History & Theories of Architecture II— | | | | | |
| | Lectures..... | 5,15 | — | 5,15 | — | — |
| | Tutorials (2 hours to be advised).... | — | — | — | — | — |

* Students take one of (a), (b), (c) or (d).

** Students take one of (A), (B), (C) or (D).

FACULTY OF ARCHITECTURE AND PLANNING—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARCHITECTURAL STUDIES
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--|--|---------|---------|-----------|----------|--------|
| SECOND-YEAR SUBJECTS AND HALF SUBJECTS (Contd.) | | | | | | |
| RS92 | Urban and Landscape Design Studies II— | | | | | |
| | Lectures | — | 9 | — | — | 9 |
| | Tutorial/Practical | — | — | — | — | 2-4 |
| RSOH | Building Studies IIIH— | | | | | |
| | Lectures | 10 | 11 | — | — | — |
| | Tutorials/Practicals* | 11-1(a) | — | 11-1(b) | 2-4(c) | — |
| RS1H | Building Construction IIIH— | | | | | |
| | Lectures | — | — | 2 | — | — |
| | Tutorial/Practical | — | — | — | — | 11-1 |
| RS2H | Building Science IIIH— | | | | | |
| | Lecture | — | — | — | 10 | — |
| | Tutorial/Practical | — | — | — | 11-1 | — |
| NR1H | Building Structures IIIH— | | | | | |
| | Lecture | — | 2 | — | — | — |
| | Tutorial/Practical | — | 3-5 | — | — | — |
| RS5H | Computer Methods in Architecture IIIH— | | | | | |
| | Lecture | — | 12 | — | — | — |
| | Tutorials/Practicals | — | 1† | — | — | 3-5 |
| RS4H | Design Studies IIIH— | | | | | |
| | Lecture | — | 10 | — | — | — |
| | Tutorial/Practical | — | — | 3-5 | — | — |

+ Tutorial/Practical, students take one of (a), (b), (c).
† Another hour to be advised.

FACULTY OF ARTS
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARTS
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--|--|--------------------------------|-------------------|-----------------------------|-------------------|---------------------|
| GROUP A | | | | | | |
| FIRST-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| EC01 | Accounting I..... | — | 9(A), 12(B) | — | 9(A), 12(B) | — |
| AA01 | Anthropology I..... | — | — | 2.15(A), 4.15(B) | — | 2.15(A), 4.15(B) |
| AQ01 | Chinese I (the 3.15 class could be held at a different time if students wish)..... | 9(A) | 9(A) | 9(A) | 9(A) | 9(A) |
| AC31 | Classical Studies I..... | — | 9 | — | 9 | — |
| UA11 | Drama I..... | — | 3.15 ^h | — | — | — |
| EE4F | Economic History IH..... | — | — | — | 6.15 | — |
| EE5F | Economic Institutions and Policy IH..... | — | — | — | — | 10 |
| EE11 | Economics I..... | 9(A), 5.15(B) | — | 9(A), 5.15(B) | — | — |
| AE01 | English I..... | — | 12(A), 5.15(B) | — | 12(A), 5.15(B) | — |
| AF01 | French I..... (Students attend at one of the times marked with an asterisk)..... | 10(A), 11*, 12*, 5.15(B) | — | 10(A), 4.15*, 5.15(B) | — 5.15(B) | 10(A) |
| AF11 | French IA..... | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| AJ01 | Geography I..... | — | 11 | — | 11 | — |
| AJ1H | Physical Geography IH..... | — | 11 ⁱ | — | 11 ⁱ | — |
| AJ2H | Human Geography IH..... | — | 11 ^k | — | 11 ^k | — |
| AG01 | German I— Lectures..... | — | 10 | 3.15 | 3.15 | — |
| | Tutorials (only one needed)..... | — | 11, 2.15 | 11 | — | — |
| AG11 | German IA..... | 9 | 10 | 9 | 10 | 9 |
| AG74 | Science German..... | — | 9 | — | 9 | — |
| AC11 | Greek I..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC71 | Greek IA..... | 11 | — | 11 | 11 | 11 |
| AH01 | History IA { | | | | | |
| AH31 | History IB } | | | | | |
| | H101 European History (A and B)..... | 11 | — | 11 | — | — |
| | H102 Old Societies and New States..... | 4.15 ^d | — | 4.15 ^d | — | 4.15 ^d |
| | H103 Australian History..... | — | 2.15 | — | 2.15 | — |
| AQ51 | Introduction to Japanese Literature I..... | — | 10 | — | 10 | — |
| AQ21 | Japanese I..... | 11 | 11 | 11 | 11 | 11 |
| AQ31 | Japanese IA..... | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
| AC01 | Latin I..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC41 | Latin IA..... | 11 | — | 11 | 11 | 11 |
| AL2H | Logic IH..... | — | 11(A), 5.15(B) | — | — | — |
| EE1G | Macroeconomics IH..... | 5.15 | — | — | — | — |
| EE2F | Mathematical Economics IH..... | — | 2.15 | 2.15 | — | — |
| EE1F | Mathematics for Economists IH..... | — | 11 | — | 11 | — |
| EE2G | Microeconomics IH..... | — | — | 5.15 | — | — |
| UA51 | Music I } | 4.15 to | — | 4.15 | — | — |
| UA61 | Music IA } | 6.05 | — | — | — | — |
| AL1H | Philosophy IH(A)..... | — | — | — | 11(A), 5.15(B) | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

For time-tables of subjects taught by other faculties see the appropriate Faculty Time-table.

For explanation of symbols see page 946.

FACULTY OF ARTS—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARTS
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|--|---|---|-------------------|-----------------|-------------------|
| FIRST-YEAR SUBJECTS (Contd.) | | | | | | |
| AL3H | Philosophy IH(B)..... | 3.15 ^c (A), 5.15 ^c (B) | 11 ^a (A), 5.15 ^a (B) | — | — | — |
| SP9H | Physics, Man and Society IH..... | 11, 4.15 ^R | — | — | — | — |
| AP11 | Politics IA } | 12 | — | 12 | — | — |
| AP21 | Politics IB } | | | | | |
| | P701 Politics and Political Economy | | | | | |
| | P702 Political Development in Australia..... | | | | | |
| | P703 Political Sociology..... | | | | | |
| | P711 History of Political Thought.... | | | | | |
| | P712 Liberal Democracy in Australia..... | 9 | — | 9 | — | — |
| AY01 | Psychology I..... | 10(A), 5.15(B) | — | 10(A), 5.15(B) | — | 10(A), 5.15(B) |
| EE71 | Social Economics I..... | 5.15 | — | 5.15 | — | — |
| GROUP B SECOND-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| AC72 | Ancient History II..... | 2.15 | — | 2.15 | — | — |
| AA02 | Anthropology IIA..... | — | — | 4.15 | — | 4.15 |
| AA12 | Anthropology IIB..... | — | — | 12 | — | 12 |
| AA22 | Anthropology IIC..... | — | — | 10 | — | 10 |
| AQ42 | Asian Civilisations: Past and Present II.. | — | 11 | — | 11 | — |
| AQ02 | Chinese II..... | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
| AC92 | Classical Art and Archaeology II..... | — | 12 | — | 12 | — |
| AC32 | Classical Studies II— | | | | | |
| | C701 Greek Art and Archaeology (1) | — | 12 ^a | — | 12 ^a | — |
| | C702 Roman Poetry..... | 9 ^a | — | — | — | 9 ^a |
| | C711 Greek Art and Archaeology (2) | — | 12 ^b | — | 12 ^b | — |
| | C704 Pastoral, Satire and the Novel.. | 9 ^b | — | — | — | 9 ^b |
| | C712 Greek Art and Archaeology (Special Topics)..... | — | 12 ^c | — | 12 ^c | — |
| | C710 Narrative and Didactic Poetry | 9 ^c | — | — | — | 9 ^c |
| | C706 Comparative Literature..... | 12 ^c | — | 12 ^c | — | — |
| UA12 | Drama II..... | — | 3.15 ^h | — | — | — |
| EE6F | Economic History III(A)..... | — | — | — | 10 | — |
| EE7F | Economic History III(B)..... | — | 10 | — | — | — |
| EE22 | Economic Statistics II..... | — | 5.15 | — | 5.15 | — |
| EE32 | Economic Statistics IIA..... | — | 5.15 | — | 5.15 | — |
| AE02 | English II..... | — | 5.15 | — | 5.15 | — |
| AE22 | English IIB } | 5.15 | — | 5.15 | — | — |
| AE32 | English IIC } | | | | | |
| | E704 American Studies..... | | | | | |
| | E705 Australian Literary Studies..... | 9 | — | — | 9 | — |
| | E706 Linguistics..... | — | 4.15 | — | 4.15 | — |
| AF02 | French II..... | — | 9(A), 11(B) | — | 9(A), 11(B) | 11 |
| AF12 | French IIA (Students attend at one of the times marked with an asterisk)..... | 11*, 12* | 11 | 11, 12, 4.15* | 12 | — |
| AF72 | French IIB..... | — | 9(A), 11(B) | — | 9(A), 11(B) | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

For time-tables of subjects taught by other faculties see the appropriate Faculty Time-table.

For explanation of symbols see page 946.

FACULTY OF ARTS—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARTS
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|---|-----------------|-------------------|-------------------|-------------------|-------------------|
| | SECOND-YEAR SUBJECTS (Contd.) | | | | | |
| AJ12 | Geography IIA | | | | | |
| AJ22 | Geography IIB | | | | | |
| AJ7H | Geography IIH | | | | | |
| | J710 Biogeography | — | 10 ^k | — | 10 ^k | — |
| | J711 Economic Geography | — | 10 ^l | — | 10 ^l | — |
| | J712 Geomorphology | — | — | 4.15 ^j | — | 4.15 ^j |
| | J713 Social Geography | — | — | 10 ^k | — | 10 ^k |
| AG02 | German II | 12, | 10*, 11, | 10 to 12, | 12, 2.15*, | — |
| AG12 | German IIA | 3.15 | 5.15 | 12 | 3.15*, | — |
| AG87 | German IIB | — | — | — | 4.15, | — |
| | (Times include options; asterisks indicate language classes. Students normally attend 3 lectures—refer to Departmental Handbook.) | | | | 5.15, | — |
| | | | | | 6.15* | — |
| AC12 | Greek II | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC82 | Greek IIA | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC77 | Greek IIS | 11 | — | 11 | 11 | 11 |
| AH02 | History IIA | | | | | |
| AH22 | History IIB | | | | | |
| | H701 History of the Family | 4.15 | — | 4.15 | — | — |
| | H702 China and Japan | — | — | 10 | — | 10 |
| | H703 France, 1850-1918 | — | — | 10 | — | 10 |
| | H704 War and Peace | — | 12 | — | 12 | — |
| | H705 Russia | — | 10 | — | 10 | — |
| | H707 Bismarck to Hitler | — | 2.15 | — | 2.15 | — |
| | H709 Australia: Outpost of Empire .. | 12 | — | 12 | — | — |
| | H710 Pacific History | — | 11 | — | 11 | — |
| | H711 The United States | 5.15 | — | 5.15 | — | — |
| | H713 South East Asia | 11 ^a | 11 ^a | — | 11 ^a | — |
| | H714 Everyman | 11 | — | 11 | — | — |
| | H715 Africa | — | 4.15 | — | 4.15 | — |
| | H716 Fascism | — | 10 | — | — | 10 |
| AQ52 | Introduction to Japanese Literature II | — | 10 | — | 10 | — |
| AQ22 | Japanese II | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| AC02 | Latin II | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC42 | Latin IIA | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC57 | Latin IIS | 11 | — | 11 | 11 | 11 |
| AL22 | Logic II (see Philosophy II) | | | | | |
| EE3G | Macroeconomics IIH | — | — | 10 | — | — |
| EE3F | Mathematical Economics IIH | — | 11 | — | — | — |
| EE4G | Microeconomics IIH | — | — | 5.15 | — | — |
| UA52 | Music I (asterisks indicate projects—six weeks in each of two terms; for times of electives see Departmental Handbook.) | — | *9-1 ^f | 4.15 to 6.05 | *9-1 ^f | — |
| AE87 | Old and Middle English II | 10 | — | 10 | — | 10 |
| AL02 | Philosophy II— | | | | | |
| | L201 Logic A | — | — | 4.15 ^a | — | 4.15 ^a |
| | L203 Philosophy of Religion | — | — | 6.15 ^a | — | 5.15 ^a |
| | L221 Relativism, Witchcraft, Truth and Logic | 10 ^a | — | — | — | 10 ^a |
| | C708 Ancient Philosophy | 12 ^a | — | 12 ^a | — | — |
| | L205 Logic B | — | — | 4.15 ^b | — | 4.15 ^b |
| | L217 Problems in Causation | 10 ^b | — | — | — | 10 ^b |
| | L204 Ethics | — | — | 11 ^b | — | 11 ^b |
| | L225 Political Philosophy | — | — | 6.15 ^b | — | 5.15 ^b |
| | L226 (Topic to be announced) | 12 ^b | — | 12 ^b | — | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

For time-tables of subjects taught by other faculties see the appropriate Faculty Time-table.

For explanation of symbols see page 946.

FACULTY OF ARTS—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARTS
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|--|-----------------|-----------------|-------------------|-----------------|-------------------|
| | SECOND-YEAR SUBJECTS | | | | | |
| | (Contd.) | | | | | |
| | Philosophy II (Contd.) | | | | | |
| | L208 Logic C..... | — | — | 4.15 ^c | — | 4.15 ^c |
| | L227 Brainstorms..... | — | — | 11 ^c | — | 11 ^c |
| | L221 Marxism..... | — | — | 6.15 ^c | — | 5.15 ^c |
| | L228 (Topic to be announced)..... | 10 ^c | — | — | — | 10 ^c |
| AP32 | Politics IIA } | | | | | |
| AP42 | Politics IIB } | | | | | |
| | P702 Political Development in Australia..... | — | 5.15 | — | 5.15 | — |
| | P703 Political Sociology..... | — | 10 | — | 10 | — |
| | P704 Third World Political Economy..... | 10 | — | 10 | — | — |
| | P705 Chinese Politics..... | — | 5.15 | — | 5.15 | — |
| | P706 Marxism-Leninism..... | — | — | 11 | — | 11 |
| | P709 International Politics..... | — | 2.15 | — | 2.15 | — |
| | P711 History of Political Thought.... | — | 11 | — | 11 | — |
| | P712 Liberal Democracy in Australia..... | — | 9 | — | 9 | — |
| AY02 | Psychology II..... | 3.15 | — | 3.15 | — | 2.15 |
| | GROUP C | | | | | |
| | THIRD-YEAR SUBJECTS AND | | | | | |
| | HALF-SUBJECTS | | | | | |
| AC73 | Ancient History III..... | 2.15 | — | 2.15 | — | — |
| AA03 | Anthropology IIIA..... | — | — | 4.15 to 6.05 | — | — |
| AA23 | Anthropology IIIC..... | — | — | 12 | — | 12 |
| AA33 | Anthropology IIID..... | — | — | 10 to 12 | — | — |
| AQ43 | Asian Development III..... | — | 5.15 | — | 5.15 | — |
| AC93 | Classical Art and Archaeology III..... | — | 12 | — | 12 | — |
| AC33 | Classical Studies III— | | | | | |
| | C701 Greek Art and Archaeology (1) | 9 ^a | 12 ^a | — | 12 ^a | 9 ^a |
| | C702 Roman Poetry..... | 12 ^a | — | 12 ^a | — | — |
| | C708 Ancient Philosophy..... | — | 12 ^b | — | 12 ^b | — |
| | C711 Greek Art and Archaeology (2) | 9 ^b | — | — | — | 9 ^b |
| | C704 Pastoral, Satire and the Novel.. | 12 ^b | — | 12 ^b | — | — |
| | C709 Later Roman Empire..... | — | 12 ^c | — | 12 ^c | — |
| | C712 Greek Art and Archaeology (Special Topics) | 9 ^c | — | — | — | 9 ^c |
| | C710 Narrative and Didactic Poetry . | 12 ^c | — | 12 ^c | — | — |
| | C706 Comparative Literature..... | — | — | — | — | — |
| EE73 | Economic Development Studies III | | | | | |
| EE03 | Economics III (see syllabus (B.A.) for component parts and see under Faculty of Economics for time-tables.) | 11 | — | 11 | — | 11 |
| AE03 | English IIIA..... | — | — | — | — | — |
| AE13 | English IIIB— | | | | | |
| | E704 American Studies..... | 5.15 | 9 | 5.15 | 9 | — |
| | E705 Australian Literary Studies..... | — | 4.15 | — | 4.15 | — |
| | E706 Linguistics..... | — | — | — | — | 10 |
| AF03 | French III..... | — | 9(A), 11(B) | — | 9(A), 11(B) | — |
| AF88 | French IIIB..... | — | 9(A), 11(B) | — | 9(A), 11(B) | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
Afternoon and evening lectures will commence at the time shown in the time-tables.
For time-tables of subjects taught by other faculties see the appropriate Faculty Time-table.
For explanation of symbols see page 946.

FACULTY OF ARTS—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ARTS

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------------------------|---|--|---------------------|-------------------|--|-------------------|
| THIRD-YEAR SUBJECTS (Contd.) | | | | | | |
| AJ13 | Geography IIIA | | | | | |
| AJ23 | Geography IIIB | | | | | |
| AJ8H | Geography IIIC | | | | | |
| | J720 Biogeography | — | — | 4.15 ^k | — | 4.15 ^k |
| | J721 Cartography | ≠ | ≠ | ≠ | ≠ | ≠ ^k |
| | J723 Cultural Geography | 4.15 ^j | — | — | 4.15 ^j | — |
| | J724 Economic Geography | — | 4.15 ^k | — | — | 4.15 ^k |
| | J725 Geomorphology | — | — | 4.15 ^j | — | 4.15 ^j |
| | J726 Rural Geography | 5.15 ^j | — | — | — | — |
| | J728 Urban Geography | 4.15 ^k | — | — | 5.15 ^j | — |
| | J733 Remote Sensing | — | — | — | 4.15 ^k | — |
| | J734 Social Survey | ≠ | ≠ | ≠ | ≠ | ≠ ^k |
| AG03 | German III (Times include options; | | 4.15-6.05 | | | |
| AG88 | German IIIB asterisks indicate lan- guage classes. Refer to Departmental Handbook.) | 12, 3.15 | 10*, 11, 5.15 | 10-12, 12 | 12, 3.15*, 4.15, 5.15, 6.15* | — |
| AC13 | Greek III | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC78 | Greek IIIS | ≠ | ≠ | ≠ | ≠ | ≠ |
| AH03 | History IIIA | ≠ | ≠ | ≠ | ≠ | ≠ |
| AH13 | History IIIB } (see History II) | | | | | |
| AQ23 | Japanese III | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| AC03 | Latin III | ≠ | ≠ | ≠ | ≠ | ≠ |
| AC67 | Latin IIIS | ≠ | ≠ | ≠ | ≠ | ≠ |
| AL23 | Logic III (see Philosophy II) | — | — | — | — | — |
| UA51 | Music III (asterisks indicate projects— six weeks in each of two terms; for times of electives see Departmental Handbook.) | — | *9-1 ^f | 2-4 ^f | *9-1 ^f | — |
| UA68 | Music IIIS (for times of projects and electives see Departmental Hand- book.) | 2(A) ^d 3(B) ^d | — | — | — | — |
| AE88 | Old and Middle English III | ≠ | ≠ | ≠ | ≠ | ≠ |
| AL03 | Philosophy IIIA | | | | | |
| AL13 | Philosophy IIIB } (see Philosophy II) | | | | | |
| AP03 | Politics IIIA | | | | | |
| AP13 | Politics IIIB | | | | | |
| | P704 Third World Political Economy | 10 | — | 10 | — | — |
| | P705 Chinese Politics | — | 5.15 | — | 5.15 | — |
| | P706 Marxism-Leninism | — | — | 11 | — | 11 |
| | P709 International Politics | — | 2.15 | — | 2.15 | — |
| | P713 Modern Political Thought | — | 4.15 | — | 4.15 | — |
| | P714 State, Society and Political Regimes | 5.15 | — | 5.15 | — | — |
| AY23 | Psychology III | 3.15, 5.15 | 4.15 | 3.15, 5.15 | 3.15 | 3.15, 5.15 |
| AY1H | Psychology IIIB(A) | | | | | |
| AY2H | Psychology IIIB(B) (Subject organised on optional unit system; not all times are needed.) | | | | | |
| SJ3H | Social Biology IIIB | ≠ | ≠ | ≠ | ≠ | ≠ |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-table.

For time-tables of subjects taught by other faculties see the appropriate Faculty Time-table.

Times for tutorials and/or practical work will be arranged at the commencement of lectures.

Alternatives are indicated by A, B, C, etc.

≠ Time to be arranged.

a—First term only.

b—Second term only.

c—Third term only.

d—First and second terms only.

e—Second and third terms only.

f—Two terms only.

g—Tutorial.

h—Three additional hours to be arranged.

j—First half of year.

k—Second half of year.

FACULTY OF ARTS
TIME-TABLE OF SUBJECTS FOR THE
DIPLOMA IN EDUCATION,
BACHELOR OF EDUCATION, AND
MASTER OF EDUCATION (COURSE WORK)

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| AD04 | Theory of Education I ^c | — | — | — | 10 | — |
| AD14 | History of Education I ^c | — | 10 | — | — | — |
| AD24 | Sociology of Education I ^c | — | — | — | 5.15 | — |
| AD34 | Educational Psychology I ^c | — | 5.15 | — | — | — |
| AD1E | Theory and Philosophy of Education— Philos. Problems of Human Sciences A..... | — | — | — | — | 5.15 ^b |
| AD3E | Enlightenment France..... | — | — | — | 5.15 ^b | — |
| AD4E | Victorian England..... | — | — | — | 5.15 ^a | — |
| AD5E | Structure of Knowledge..... | 5.15 ^a | — | — | — | — |
| AD6E | Ethics, Aesthetics..... | 5.15 ^b | — | — | — | — |
| AD7E | Paradigms and Models..... | — | 5.15 ^b | — | — | — |
| AD8E | Nature of Science..... | — | 5.15 ^b | — | — | — |
| AD2F | Historical and Comparative Studies in Education— Renaissance Italy and England..... | — | 5.15 ^a | — | — | — |
| AD3F | Family, Class and Schooling—North America..... | — | 5.15 ^a | — | — | — |
| AD5F | Women and Education..... | 5.15 ^b | — | — | — | — |
| AD8F | Public and Progressive Schools..... | — | 5.15 ^b | — | — | — |
| AD1G | Sociology of Education— Culture and Ed. in a Plural Society..... | — | 5.15 ^a | — | — | — |
| AD2G | Cultural Systems..... | — | — | — | 5.15 ^b | — |
| AD3G | Children's Achievements..... | 5.15 ^a | — | — | — | — |
| AD4G | Research Methods..... | 5.15 ^b | — | — | — | — |
| AD1H | Educational Psychology— Theories of Learning..... | 2.00 ^a | — | — | — | — |
| AD2H | Implications for Science Ed..... | — | — | — | 2.00 ^b | — |
| AD3H | Motivational and Personality Factors ... | — | — | 1.00 ^a | — | — |
| AD6O | English Curriculum Studies— Advanced Curriculum Studies..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| AD8O | Special Topic..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| AD1J | Mathematics Curriculum Studies— Advanced Curricular Studies..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| AD1K | Adult Education— History and Theories..... | 12 ^b | — | — | — | — |
| AD2K | Adult Psychology and Ed..... | 12 ^a | — | — | — | — |
| AD9S | Philosophy of Education III..... | ≠ | ≠ | ≠ | ≠ | ≠ |

a — First half of year only.
b — Second half of year only.
c — Tutorial time to be arranged.

FACULTY OF DENTISTRY
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF DENTAL SURGERY
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------------|--|--------|---------|-----------|-------------------|--------|
| FIRST-YEAR SUBJECTS | | | | | | |
| MH71 | Behavioural Science— | | | | | |
| | Lectures | 11 | 11 | — | — | 11 |
| | Tutorial | — | ≠ | ≠ | ≠ | ≠ |
| | Practical | 2-5 | — | — | — | — |
| SJ8H | Genetics IH(M)— | | | | | |
| | Lectures | 9 | — | — | 12 | — |
| | Practical/Tutorial (1½ hours) | — | — | — | 9(A), 10.40(B) | — |
| SP7H | Medical Physics— | | | | | |
| | Lectures | — | 10 | — | — | 12 |
| | Tutorial | 12 | — | — | — | — |
| | Practical (3 hours) | — | — | 2.10-5 | — | — |
| SZ51 | Biology ID— | | | | | |
| | Lectures | — | — | 9 | — | 9 |
| | Tutorial | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (4 hours) ^a | — | — | — | — | — |
| SC81 | Chemistry ID— | | | | | |
| | Lectures | 10 | — | 10 | — | 10 |
| | Tutorial | — | — | 11 | — | — |
| | Practical (3 hours) Term I | — | — | — | — | 2.10-5 |
| MA71 | Introductory Anatomy and Histology— | | | | | |
| | Lectures Term 1 | — | 9 | — | — | — |
| | Terms 2 and 3 | — | 12 | — | — | — |
| | Practical ^b | 12 | — | — | 2-4 | — |
| — | Dental Care I— | | | | | |
| | Lectures and Practical | — | 2-5 | — | — | — |
| | (Terms I and II) | | | | | |
| — | Oral Anatomy I— | | | | | |
| | Lectures and Practical | — | 2-5 | — | — | — |
| | (Term III) | | | | | |

SECOND- AND LATER-YEAR SUBJECTS

Dental School Office.

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

a — The laboratories are open during the following hours:

9 a.m.-6 p.m. Monday and Friday.

9 a.m.-10 p.m. Tuesday, Wednesday and Thursday.

b — Term I : 2 hours every second week.

Term II : 2 hours every second week and 1 hour in alternate weeks.

Term III : As for Term II.

≠ 1 hour to be arranged.

FACULTY OF ECONOMICS
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ECONOMICS

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|--|-------------------|---------------|-------------------|---------------|--------|
| FIRST-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| EC01 | Accounting I..... | — | 9(A) 12(B) | — | 9(A) 12(B) | — |
| LL2H | Commercial Law IH—1st half of year... | 4.15 | — | — | — | 5.15 |
| EE4F | Economic History IH..... | — | — | — | 6.15 | — |
| EE5F | * Economic Institutions & Pol. IH..... | — | — | — | — | 10 |
| EE11 | Economics I..... | 9(A) 5.15(B) | — | 9(A) 5.15(B) | — | — |
| EE1G | Macroeconomics IH..... | 5.15 | — | — | — | — |
| EE2F | Mathematical Economics IH..... | — | 2.15 | 2.15 | — | — |
| EE1F | Mathematics for Economists IH..... | — | 11 | — | 11 | — |
| EE2G | Microeconomics IH..... | — | — | 5.15 | — | — |
| SECOND-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| EC02 | Accounting II..... | — | 12 | — | 12 | — |
| LL3H | * Commercial Law IHH—2nd half of year. | 5.15 | — | — | — | 5.15 |
| EE6F | Economic History IHH (A)..... | — | — | — | 10 | — |
| EE7F | * Economic History IHH (B)..... | — | 10 | — | — | — |
| EE22 | Economic Statistics II..... | — | 5.15 | — | 5.15 | — |
| EE32 | Economic Statistics IIA..... | — | 5.15 | — | 5.15 | — |
| LL1H | Income Tax IHH—1st half of year..... | 4.15 ⁺ | — | — | — | — |
| EE3G | Macroeconomics IHH..... | — | — | 10 | — | — |
| EE3F | * Mathematical Economics IHH..... | — | 11 | — | — | — |
| EE4G | Microeconomics IHH..... | — | — | 5.15 | — | — |
| THIRD-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| EC03 | Accounting III..... | — | 5.15 | — | 5.15 | — |
| EE4H | Agricultural Economics IHH..... | — | — | — | 10 | — |
| EC4H | Business Finance IHH..... | — | — | 11 | — | — |
| EC1H | Comput. Accting Syst. IHH..... | — | — | 5.15 | — | — |
| EE8H | * Econometrics IHH..... | — | 12 | — | — | — |
| EE13 | Economic Development III..... | 5.15 ⁺ | — | 5.15 ⁺ | — | — |
| AJ9H | Economic Geography IHH..... | ≠ | ≠ | — | ≠ | ≠ |
| EE8G | Economic History IHH..... | — | — | 11 | — | — |
| EE68 | * Economic Theory IHH..... | — | 2.15 | 2.15 | — | — |
| EE33 | Economics IIIA..... | — | — | 10 | — | 10 |
| EE9G | Econ. of Anti Trust & Regul. IHH..... | — | — | 4.15 | — | — |
| EE3H | Economics of Labour IHH..... | — | 11 | — | — | — |
| EC23 | Industrial Sociology III..... | — | — | 5.15 | — | 5.15 |
| EC2H | Management Decision Analysis IHH.... | — | 5.15 | — | — | — |
| EE7H | Managerial Economics IHH..... | — | — | — | 6.15 | — |
| EC5H | Marketing IHH..... | — | — | 8.30-10 | — | — |
| EE9H | * Mathematical Economics IHH..... | — | — | — | — | 2.15 |
| EE2H | * Public Finance IHH..... | — | 4.15 | — | — | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

Alternatives are indicated by A, B.

It is expected that those subjects and half-subjects (except those marked *) which are given as day classes in 1981 will be given as evening classes in 1982 and vice versa.

Accounting I and Economics I will continue to be offered as day and evening classes.

+2 hours.

FACULTY OF ECONOMICS—Continued
TIME-TABLE OF SUBJECT FOR THE
DEGREE OF MASTER OF BUSINESS MANAGEMENT
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-----------------------------|---|-----------|-----------|-----------|-----------|-----------|
| PART I (New Course) | | | | | | |
| First Half of Year | | | | | | |
| EM05 | Economics for Management..... | — | — | 8.30-10 | — | 8.30-10 |
| EM15 | Managerial Accounting..... | 4.30-6 | — | 4.30-6 | — | — |
| EM45 | Organisational Behaviour..... | — | 4.15-5.15 | — | 4.15-6.15 | — |
| EM65 | Quantitative Methods..... | — | 8.30-10 | — | 8.30-10 | — |
| Second Half of Year | | | | | | |
| EM25 | Managerial Finance A..... | 4.30-6 | — | 4.30-6 | — | — |
| EM35 | Marketing Principles..... | — | 8.30-10 | — | 8.30-10 | — |
| EM55 | Organisational Theory and Practice..... | — | 4.15-5.15 | — | 4.15-6.15 | — |
| EM75 | Resources Institutions and Policies..... | — | — | 8.30-10 | — | 8.30-10 |
| PART II (Old Course) | | | | | | |
| First Half of Year | | | | | | |
| EC08 | Personnel Management..... | — | 9-11 | — | — | — |
| EC17 | Financial Management..... | — | — | — | — | 9-11 |
| EC27 | Government & Administration..... | — | — | — | 9-11 | — |
| EC28 | Organisational Psychology..... | 9-11 | — | — | — | — |
| EC47 | Quantitative Methods II..... | — | — | 9-11 | — | — |
| EC67 | Business Finance..... | — | — | 3.15-5.15 | — | — |
| Second Half of Year | | | | | | |
| EC07 | Business Policy..... | 3.15-5.15 | — | — | — | — |
| EC18 | Management and Information Systems.. | — | — | 9-11 | — | — |
| EC37 | Organisational Theory and Behaviour.. | — | 4.15-5.15 | — | 4.15-6.15 | — |
| EC77 | Marketing Management..... | — | 8.30-10 | — | 8.30-10 | — |
| EC87 | Quantitative Methods III(1) Control of Operations..... | — | — | — | — | 3.15-5.15 |
| EC97 | Quantitative Methods III(2) Planning and Decision Analysis..... | — | — | 3.15-5.15 | — | — |

FACULTY OF ENGINEERING
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ENGINEERING

1981

N.B.—Students will be allocated to appropriate classes for which more than one session is provided. These allocations will be displayed on faculty or departmental noticeboards during orientation week.

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------------------------|--|------------------|-------------------|---------------------------------------|-------------------|----------------------|
| FIRST-YEAR SUBJECTS | | | | | | |
| SC01 | Chemistry I— | | | | | |
| | Lectures..... | 9 12 5.15 | — — — | 9 12 5.15 11,* 12*a 2.15* | — — — — | 9 12 5.15 — |
| | (The 9 a.m., 12 noon and 5.15 p.m. lecture series are alternatives)..... | | | | | |
| | Tutorial (1 hour)..... | — | — | — | — | — |
| | Practical (3 hours)..... | — | 10-1* 2.10-5* | — | 10-1*a 2.10-5* | 10-1*a 2.10-5* |
| EE11 | Economics I— | | | | | |
| | Lectures..... | 9 5.15 | — — | 9 5.15 | — ≠ | — ≠ |
| | (The 9 a.m. and 5.15 p.m. lecture series are alternatives)..... | | | | | |
| Tutorial..... | ≠ | ≠ | ≠ | ≠ | ≠ | |
| NX21 | Engineering IA— | | | | | |
| | Lectures (3 hours average)..... | 11 | — | 11, 12 | — | 11 |
| | Tutorial (1 hour)..... | — | 12* | — | 12* | — |
| Practical (4½ hours)..... | — | 9-12* | 3-4.30 | 2.10-5* | 2.10-5* | |
| NX31 | Engineering IB— | | | | | |
| | Lectures..... | 11 | — | 11 | — | 11 |
| | Tutorial (1 hour)..... | — | 12* | — | 12* | — |
| Practical (3 hours)..... | — | 9-12* | — | 2.10-5* | 2.10-5* | |
| SB5H | Environmental Biology IH— (half-subject) | | | | | |
| | Lecture..... | — | 9 | — | — | — |
| | Practical/Tutorial..... | — | 10-1 ^h | — | — | — |
| SG3H | Geology IH(E)— | | | | | |
| | Lectures (36 hours total)..... | — | 2.10 | — | 9 | — |
| Practical (42 hours total)..... | — | 3.10-5 | — | — | — | |
| AJ2H | Human Geography IH (Second half of year)..... | — | 11 | — | 11 | — |
| QM01 | Mathematics I— | | | | | |
| | Lectures..... | 10 | — | 10 | 10 | 10 |
| | (The 10 a.m. and 4.15 p.m. lecture series are alternatives)..... | | | | | |
| | Tutorial (2 hours)..... | 4.15 11-1* | — 9-11* | 4.15 — | 4.15 11-1* | 4.15 11-1* |
| Practical (3 hours)..... | 2.15-4.05* | 11-1* | 2.15-4.05* | 2.15-4.05* | 2.15-4.05* | |
| AJ1H | Physical Geography IH (First half of year)..... | — | 11 | — | 11 | — |
| SP01 | Physics I— | | | | | |
| | Lectures..... | 9 12 5.15 | — — — | 9 12 5.15 | — — — | 9 12 5.15 |
| | (The 9 a.m., 12 noon and 5.15 p.m. lecture series are alternatives)..... | | | | | |
| | Tutorial (1 hour)..... | 3*, 4* | — | 11*, 3*, 4* | — | 3* |
| | Practical (3 hours)..... | 10-1* 2.10-5* | 10-1* 2.10-5* | 10-1*a 2.10-5* 6.15-9.15* | — 2.10-5* | 10-1*a 2.10-5* |

NOTE: For other alternative First-Year subjects as listed in the Schedules, refer to the time-tables of respective faculties.

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

FACULTY OF ENGINEERING—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ENGINEERING
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|------------------------------|----------------------------------|-----------------------|----------------|-----------------------|---------------------|-----------------------|
| SECOND-YEAR SUBJECTS | | | | | | |
| QN12 | Applied Mathematics IIB— | | | | | |
| | Lectures..... | 9 | 9 | 9 | 9 | — |
| | Tutorial (1 hour)..... | — | — | — | 10*, 12* | 9*, 10*, 11*, 12* |
| | Practical (½-1 hour)..... | 11-12* 2-4* | 11-12* 2-4* | 11-12* 2-4* | 11-12* 2-4* | 11-12* 2-4* |
| NH12 | Chemical Engineering II— | | | | | |
| | Lectures..... | — | 10, 12 | 10 | — | — |
| | Tutorial..... | 10, 2.10-4 | — | — | — | — |
| | Practical..... | — | 2.10-5 | — | — | — |
| SC22 | Chemistry IIE— | | | | | |
| | Lectures..... | 11 or 12 ^f | — | 11 or 12 ^f | — | 11 or 12 ^f |
| | Tutorial (1 hour)..... | — | — | 2.15 | — | — |
| | Practical (6 hours)..... | — | — | — | — | 9-5 |
| NC02 | Civil Engineering II— | | | | | |
| | Lectures..... | — | 10 | 10 | 10 | 10 |
| | Tutorial..... | 10 | — | — | — | — |
| | Practical (6 hours average)..... | 11-1 | — | 2.10-5 ^d | 2.10-5 ^d | — |
| NE02 | Electrical Engineering II— | | | | | |
| | Lectures..... | 11 ^d | — | 11, 3.10 ^c | — | 11 |
| | Tutorial (2 hours)..... | 12* | — | 12* | — | 12 |
| | Practical (3 hours)..... | — | 10-1* | — | 10-1* | — |
| | Alternative Tutorial— | | | | | |
| | Practical Combinations: | | | | | |
| | Mon. 12 and Tues. 10-1 | | | | | |
| | Wed. 12 and Thurs. 10-1 | | | | | |
| NX12 | Engineering IIC— | | | | | |
| | Electrical Circuits and Machines | | | | | |
| | Lecture..... | — | 11 | — | — | — |
| | Practical ^b | 2.10-5* | 2.10-5* | — | — | — |
| | Electronics | | | | | |
| | Lecture..... | — | — | 11 | — | — |
| | Practical ^b | 2.10-5* | 2.10-5* | — | — | — |
| Engineering Materials | | | | | | |
| Lecture..... | — | — | — | 11 | — | |
| Practical ^b | 2.10-5* | — | — | — | 2.10-5* | |
| NX42 | Engineering IIM— | | | | | |
| | Stress Analysis | | | | | |
| | Lecture..... | — | 12 | — | — | — |
| | Practical ^b | — | 2.10-5 | — | — | — |
| | Structural Engineering | | | | | |
| | Lecture (1 hour average)..... | — | 11 | 11 | — | — |
| | Practical..... | — | — | 2.10-5 ^d | — | — |
| Engineering Materials | | | | | | |
| Lecture..... | — | — | — | 11 | — | |
| Practical ^b | 2.10-5 | — | — | — | — | |
| | Workshop Practice..... | — | — | — | — | 2.10-5 |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
Afternoon and evening lectures will commence at the time shown in the time-tables.

FACULTY OF ENGINEERING—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ENGINEERING

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------------------------------|--|---------------------|-----------|-----------|---------------------------|---------------------|
| SECOND-YEAR SUBJECTS (Contd.) | | | | | | |
| NM02 | Mechanical Engineering II— | | | | | |
| | Lectures | — | 10 | 10 | 10 | 10 |
| | Tutorial/Practical | 10-1 | — | — | 2.10-5 | — |
| SP02 | Physics II— | | | | | |
| | Lectures | 10 | — | 10 | — | 10 |
| | Tutorial (1 hour) | — | — | 2.15 | — | — |
| | Practical (6 hours) | 2.10-5* | 10-1* | — | 10-1* | 2.10-5* |
| | Alternative Practical Combinations: Mon. p.m. and Tues. a.m. Thurs. p.m. and Fri. p.m. Tues. p.m. and Thurs. a.m. (Mon. p.m. and Fri. p.m.) ^g | — | 2.10-5* | — | 2.10-5* | — |
| THIRD-YEAR SUBJECTS | | | | | | |
| NH13 | Chemical Engineering IIIA— | | | | | |
| | Lectures | — | 9 | — | 9 | 10 |
| | Tutorial | — | 10 | 10 | — | — |
| | Practical | — | — | — | 2.10-5 | — |
| NH23 | Chemical Engineering IIIB— | | | | | |
| | Lectures | 10, 12 ^d | — | — | 10 | — |
| | Tutorials | 11 ^d | — | — | 11 | 12 |
| | Practical | 2.10-5 ^d | — | — | — | 2.10-5 ^d |
| NC03 | Civil Engineering IIIA— | | | | | |
| | Lectures | — | 11 | 11 | 11 | — |
| | Tutorial/Practical | 10-1 | — | — | 2.10, 3.10-5 ^d | — |
| NC13 | Civil Engineering IIIB— | | | | | |
| | Lectures | — | 10 | 10 | 10 | — |
| | Tutorial/Practical (6½ hrs average) | 2.10-5* | — | 2.10-5* | — | 2.10-5* |
| QA12 | Computing Science IIC— | | | | | |
| | Lectures | 9 | 10 | — | 10 | 12 |
| | Tutorials (1 hour) | — | 9*, 2.15* | 10* | — | — |
| | Practical (3 separate hours) | ≠ | ≠ | ≠ | ≠ | ≠ |
| NE13 | Electrical Engineering III— | | | | | |
| | Lectures | 11 | — | 10, 11 | 12 | — |
| | Tutorials (2 hours) | 10 | 11* | — | 11* | — |
| | Practical (6 hours) | — | — | 2.10-5* | 2.10-5* | 9-5* |
| | Alternative Tutorial— Practical Combinations: Tues. 11 and Wed. 2.10-5 and Thurs. 2.10-5 Thurs. 11 and Fri. 9-5 | — | — | — | — | — |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
Afternoon and evening lectures will commence at the time shown in the time-tables.

FACULTY OF ENGINEERING—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ENGINEERING
1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------------------------|---|----------------|---------|-----------|----------|-----------------|
| THIRD-YEAR SUBJECTS (Contd.) | | | | | | |
| NX53 | Engineering IIIC— | | | | | |
| | Vibration, Control and Heat Transfer | | | | | |
| | Lecture | — | — | — | 12 | — |
| | Tutorial | — | — | — | — | 10 ^c |
| | Machine Design | | | | | |
| | Lecture | — | — | 12 | — | — |
| | Practical | — | 2.10-5 | — | — | — |
| | Numerical Analysis in Engineering | | | | | |
| | Lectures | — | — | 9 | — | — |
| | Tutorial | 9 ^c | — | — | — | — |
| Engineering Economics and Planning | | | | | | |
| Lectures | — | — | — | — | 9 | |
| Tutorial | 9 ^c | — | — | — | — | |
| NX23 | Engineering IIIE— | | | | | |
| | Stress Analysis | | | | | |
| | Lecture | — | 12 | — | — | — |
| | Practical ^b | 2.10-5* | 2.10-5* | — | — | — |
| Machine Design | | | | | | |
| Lecture | — | — | 12 | — | — | |
| Practical | — | 2.10-5* | 2.10-5* | — | — | |
| NX52 } NX93 } NY93 } | Engineering IIH } Engineering IIHH } | | | | | |
| | Stress Analysis | | | | | |
| Lecture | — | 12 | — | — | — | |
| Practical ^b | — | 2.10-5 | — | — | — | |
| Machine Design | | | | | | |
| Lecture | — | — | 12 | — | — | |
| Practical | — | — | 2.10-5 | — | — | |
| Electrical Circuits and Machines | | | | | | |
| Lecture | — | 11 | — | — | — | |
| Practical ^b | — | 2.10-5 | — | — | — | |
| Mathematics III (Engineering)— | | | | | | |
| Lectures | — | — | 9 | — | 9 | |
| Tutorial | 9 | — | — | — | — | |
| NX73 | Engineering IIIM— | | | | | |
| NX83 | Electrical Circuits and Machines | | | | | |
| | Lecture | — | 11 | — | — | — |
| | Practical ^b | 2.10-5 | — | — | — | — |
| | Electronics | | | | | |
| | Lecture | — | — | 11 | — | — |
| | Practical ^b | 2.10-5 | — | — | — | — |
| | Materials Engineering | | | | | |
| | Lectures | — | — | — | 10 | 9 |
| Practical ^b | — | — | — | 2.10-5 | — | |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
Afternoon and evening lectures will commence at the time shown in the time-tables.

FACULTY OF ENGINEERING—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF ENGINEERING

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|-------------------------------|---------|---------|-----------|----------|----------|
| THIRD-YEAR SUBJECTS (Contd.) | | | | | | |
| NM03 | Mathematics III (Engineering) | | | 9 | — | 9 |
| | Lectures..... | — | — | 9 | — | — |
| | Tutorial..... | 9 | — | — | — | — |
| NM03 | Mechanical Engineering IIIA— | | | 12 | 11 | — |
| | Lectures..... | 10 | — | — | — | 12 |
| | Tutorial..... | — | — | — | — | 2.10-5 |
| NM13 | Mechanical Engineering IIIB— | | | — | 9 | — |
| | Lectures..... | 11 | 9 | — | — | 10 |
| | Tutorial..... | — | — | — | — | — |
| QM02 | Pure Mathematics II— | | | 9 | 9 | 9 |
| | Lectures..... | — | 9 | 9 | 9 | 9 |
| | Tutorial (1 hour)..... | 9*, 10* | 10* | — | 10* | 10*, 11* |
| FOURTH-YEAR SUBJECTS | | | | | | |
| Time-table to be arranged by the Departments. | | | | | | |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

* Alternatives.

≠ Time to be arranged.

a— Only if numbers warrant.

b— Nine three-hour practical sessions.

c— One term only.

d— Two terms only.

e— Alternate weeks.

f— The part of the course common to SC02 Physical and Inorganic Chemistry II is at 11 a.m.

g— Available only to students unable to attend other owing to unavoidable time-table clashes.

h— Tutorials are given in alternate weeks in the time allotted.

FACULTIES OF MATHEMATICAL SCIENCES AND SCIENCE
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1981

N.B.—Students will be allocated by the University to appropriate classes for which more than one session is provided. These allocations will be displayed on departmental noticeboards during orientation week.

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------------|--|---|------------------------------------|---|--|---|
| FIRST-YEAR SUBJECTS | | | | | | |
| SP8H | Astronomy IH— Lectures/Tutorial..... Practical (3 hours fortnightly)..... | — — | — 6.15-9.15* | 12 — | — 6.15-9.15* | 2.15 — |
| SZ71 | Biology I— Lectures..... (The 9 a.m. and 5.15 p.m. lecture series are alternative) Tutorial (1 hour)..... Practical (4 hours) ^a | — — ≠ ≠ | 9, 5.15 — ≠ ≠ | — — ≠ ≠ | 9, 5.15 — ≠ ≠ | — — ≠ ≠ |
| SB6H | Botany IH (half-subject)— Lectures..... Practical (2 hours)/Tutorial (1 hour fortnightly)..... | — — | — — | 9* — | 9* 10-1 ^b | — — |
| SC01 | Chemistry I— Lectures..... (The 9 a.m., 12 noon and 5.15 p.m. lecture series are alternatives) Tutorial (1 hour)..... Practical (3 hours)..... | 9, 12, 5.15 — — | — — 10-1*, 2.10-5* | 9, 12, 5.15 — 11*, 12*, ^c 2.15* | — — 10-1*, ^c 2.10-5* | 9, 12, 5.15 — — 10-1*, ^c 2.10-5* |
| QA7H | Computing IH (half-subject)— Lectures..... (Students may attend either Mon. and Fri. or Tues. and Thurs.) Tutorial (1 hour)..... | 11 — 2.15* 3.15* 4.15* 5.15* | 11 — 9.00* 2.15* 4.15* | — — — — | 11 — 9.00* 2.15* 5.15* | 11 — 2.15* 3.15* 4.15* 5.15* |
| NX21 | Engineering IA— Lectures (3 hours average)..... Tutorial (1 hour)..... Practical (3 hours)..... | 11 — — | — 12* 9-12* | 11, 12 — — | — 12* 2.10-5* | 11 — 2.10-5* |
| NX31 | Engineering IB— Lectures..... Tutorial (1 hour)..... Practical (3 hours)..... | 11 — — | — 12* 9-12* | 11 — — | — 12* 2.10-5* | 11 — 2.10-5* |
| SB5H | Environmental Biology IH (half-subject)— Lecture..... Practical (3 hours) and Tutorial (1 hour) fortnightly..... | — — | 9 10-1 ^b | — — | — — | — — |
| SJ7H | Genetics and Human Variation Ih (half-subject)— Lecture..... Practical/Tutorial..... (weekly 1½ hours) Tutorial (1 hour) ^d | — — — | 12 — — | — — — | — — 9*, 10.40*, 2.10*, 3.40* 12 | — — — |

FACULTY OF MATHEMATICAL SCIENCES AND
SCIENCE—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------------------------|--|------------------------------|-----------------|--|----------------------|-----------------------------|
| FIRST-YEAR SUBJECTS (Contd.) | | | | | | |
| SG01 | Geology I— | — | 9, 5.15 | 11, 5.15 | 9, 5.15 | — |
| | Lectures..... (The 9 a.m. lectures are alternatives to the 5.15 p.m. lectures. Students may attend either the 11 a.m. or 5.15 p.m. lecture on Wednesdays) | 11*, 12*, 2.15* | 2.15* | 2.15* | 11* 2.15* | — |
| | Tutorial (1 hour)..... | 2.10-5* | 10-1* | — | 2.10-5* | — |
| QM01 | Practical (3 hours)..... | — | — | — | — | 10, 4.15 |
| | Mathematics I— | 10, 4.15 | — | 10, 4.15 | 10, 4.15 | 10, 4.15 |
| | Lectures..... (The 10 a.m. and 4.15 p.m. lecture series are alternatives) | 11-1*, 2.15-4.05* | 9-11*, 11-1* | 2.15-4.05* | 11-1*, 2.15-4.05* | 11-1*, 2.15-4.05* |
| QM11 | Tutorial (2 hours)..... | — | — | — | — | — |
| | Mathematics IM— | 4.15 | — | 2.15, 4.15 | — | 4.15 |
| | Lectures..... | — | — | — | 11-1* | 9-11*, 11-1*, 2.15-4.05* |
| QM7H | Tutorial (2 hours)..... | — | — | — | 2.15-4.05* | — |
| | Mathematics IH (half-subject)— | 4.15 | — | 4.15 | — | — |
| | Lectures..... | — | — | 2.15* | 11* | 11*, 2.15* |
| SP01 | Tutorial (1 hour)..... | — | — | — | — | — |
| | Physics I— | 9, 12, 5.15 | — | 9, 12, 5.15 | — | 9, 12, 5.15 |
| | Lectures..... (The 9 a.m., 12 noon and 5.15 p.m. lecture series are alternatives) | 3*, 4*, 10-1*, 2.10-5* | — | 11*, 3*, 4*, 10-1*, 2.10-5*, 6.15-9.15* | — | 3*, 10-1*, 2.10-5* |
| AY01 | Practical (3 hours)..... | — | 2.10-5* | — | 2.10-5* | — |
| | Psychology I— | 10, 5.15 | — | 10, 5.15 | — | 10, 5.15 |
| | Lectures..... (The 10 a.m. and 5.15 p.m. lecture series are alternatives) | ≠ | ≠ | ≠ | ≠ | ≠ |
| QT7H | Tutorial (1 hour)..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (2 hours)..... | — | — | — | — | — |
| | Statistics IH (half-subject)— | 12 | — | — | — | 12 |
| | Lectures..... | 2.15* ^c | — | — | — | 2.15* ^c |
| | Tutorial (1 hour)..... | 3.15* ^c | — | — | — | 3.15* ^c |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).
Afternoon and evening lectures will commence at the times shown in the time-tables.
The tutorial and practical classes listed may be varied according to student demand and/or availability of staff.

≠ Time to be arranged.
* Alternative classes.

a — The laboratories are open during the following hours:
10.10 a.m.—6.00 p.m. Monday.
9.10 a.m.—6.00 p.m. Wednesday.
9.10 a.m.—10.00 p.m. Tuesday and Thursday.
9.10 a.m.—4.00 p.m. Friday.

b — Tutorials are given in alternate weeks in the time allotted for practical work.

c — Class to be held only if numbers warrant.

d — Films on genetics will be shown and discussed in this tutorial class.

FACULTIES OF MATHEMATICAL SCIENCES AND
SCIENCE—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1981

NOTE: Direct clashes between lecture classes cannot normally be resolved. However, clashes between lectures and practical classes may in some cases be accommodated. In the first instance, students with timetable clashes should consult an Assistant to the Dean.

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-----------------------------|---|-----------------------|------------------|-----------------------|-------------------|-----------------------|
| SECOND-YEAR SUBJECTS | | | | | | |
| WX02 | Agriculture II (B.Ag.Sc. students only) | | | | | |
| | Lectures..... | 9 | 11 | — | — | 11 |
| | Tutorial (1 hour)..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| QN22 | Applied Mathematics IIA— | | | 1.30-4.30 | | |
| | Lectures..... | 12 | 12 | 12 | 12 | — |
| | Tutorial (1 hour)..... | 9*, 10* | 9*, 10* | — | 9*, 10* | — |
| QN12 | Applied Mathematics IIB— | | | | | |
| | Lectures..... | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* |
| | Tutorial (1 hour)..... | 9 | 9 | 9 | 9 | — |
| SY02 | Biochemistry II— | | | | | |
| | Lectures..... | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* | 11-12*, 2-4* |
| | Practical (6 hours)..... | — | — | — | — | 9 |
| SB02 | Botany II— | | | | | |
| | Lectures..... | — | 10-5* | 9-5* | 9-5* ^e | — |
| | Practical (6 hours)..... | 2-5 | 2-5 | 5.15 | 12 | — |
| SC12 | Chemistry II— | | | | | |
| | Lectures..... | 11 | — | 11 or 12 | — | 12 |
| | Tutorial (1 hour)..... | 10* ^f | 12* ^d | 2.15* ^d | — | 2.15* ^f |
| SC22 | Chemistry IIE— | | | | | |
| | Lectures..... | — | 10-5* | — | 10-5* | 10-5* ^c |
| | Tutorial (1 hour)..... | 11 or 12 ^b | — | 11 or 12 ^b | — | 11 or 12 ^b |
| QA02 QA12 | Computing Science II } Computing Science IIC } | | | | | |
| | Lectures..... | — | — | — | — | 9-5 |
| | Tutorials (1 hour)..... | — | — | — | — | — |
| SJ02 | Genetics II— | | | | | |
| | Lectures..... | 9 | 10 | — | 10 | 12 |
| | Practical (3 separate hours)..... | ≠ | 9*, 2.15* | 10* | ≠ | ≠ |
| SG02 | Geology II— | | | | | |
| | Lectures..... | 10 | — | 10 | — | 10 |
| | Practical/Tutorial (5 hours)..... | 2-5 | 2-5 | 2-4 | — | 3-5 |
| | Geology II— | | | | | |
| | Lectures..... | — | 9 | 9 | — | 9 |
| | Tutorial (1 hour)..... | ≠ | ≠ | ≠ | ≠ | ≠ |

FACULTIES OF MATHEMATICAL SCIENCES AND
SCIENCE—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1980

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|--|---|---------------------------------------|---|-----------------------------|---|
| | SECOND-YEAR SUBJECTS (Contd.) | | | | | |
| | Practical (6 hours)..... (Mon. & Wed. are alternatives. Thurs. & Fri. are alternatives) | 2-5 | — | 2-5 ^c | 9-12 ^c | 2-5 |
| SG72 | Geophysics II— Lectures..... Practical (6 hours)..... | — — | 10, 11 2-5 | — 2-5 | 11 — | — — |
| QT02 | Mathematical Statistics II— Lectures..... Tutorial (2 hours)..... | 11 — | 11 ^d 10-12 ^e | 11 2.15-4 ^e | 11 2.15-4 [*] | 11 — |
| SK32 | Microbiology and Immunology II— Lectures..... Practical (6 hours)..... | — — | 11 — | 9 — | 11 — | — all day |
| SO02 | Organic Chemistry II— Lectures..... Tutorial (1 hour)..... Practical (6 hours)..... | 12 4.15 [*] — | — — 9-5 [*] | 12 4.15 [*] — | — — 9-5 [*] | 12 4.15 ^e — |
| SC02 | Physical and Inorganic Chemistry II— Lectures..... Tutorial (1 hour)..... Practical (6 hours)..... | 11 10 [*] — | — — 10-5 [*] | 11 4.15 [*] — | — — 10-5 [*] | 11 2.15 ^e 9-5 ^e |
| SP02 | Physics II— Lectures..... Tutorial (1 hour)..... Practical (6 hours)..... Alternatives: A Mon. p.m. and Tues. a.m. B Thurs. p.m. and Fri. p.m. C Tues. p.m. and Thurs. a.m. (Mon. p.m. and Fri. p.m.) ^f | 10 — 2-5 | — — 10-1, 2-5 | 10 2.15 — | — — 10-1, 2-5 | 10 — 2-5 |
| SS02 | Physiology II— Lectures..... Practical (two 3 hour classes)..... | 11 — | — — | 11 — | — 9-1, 2-5 | 11 — |
| AY02 | Psychology II— Lectures..... Tutorial (1 hour)..... Practical (4 hours)..... | 3.15 (odd yrs.) 5.15 (even yrs.) ≠ ≠ | — — ≠ ≠ | 3.15 (odd yrs.) 5.15 (even yrs.) ≠ ≠ | — — ≠ ≠ | 2.15 (odd yrs.) 5.15 (even yrs.) ≠ ≠ |
| QM02 | Pure Mathematics II— Lectures..... Tutorial (1 hour)..... | — 9*, 10* | 9 10* | 9 — | 9 10* | 9 10*, 11* |
| SZ02 | Zoology II— Lectures..... Practical (6 hours)..... | — — | 10 11-6* | — — | 9, 5.15 10-5* | — — |

NOTE: Classes in all subjects will commence at ten minutes past the hour shown in the time-tables, unless shown otherwise.
In some cases periods longer than the nominal number of hours indicated in the syllabuses have been set aside for practical classes in order to allow students to attend lectures which clash with the practical sessions.

- * Alternative class.
- ≠ Time to be arranged.
- a— Lecture in first term only.
- b— The part of the course common to Physical and Inorganic Chemistry II is at 11.00 a.m.
- c— Practical class available only to students unable to attend other classes owing to unavoidable time-table clashes.
- d— For tutorials in the Organic Chemistry section of the course.
- e— Class to be held only if numbers warrant.
- f— For tutorials in the Physical and Inorganic Chemistry section of the course.

FACULTIES OF MATHEMATICAL SCIENCES AND
SCIENCE—Continued
TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1981

Any student who is unable to pursue a combination of subjects due to an apparent clash in the hours set aside for practical work in these subjects should consult the appropriate departments before making a final decision.

NOTE:

These time-tables show the hours set aside for work in each department. Students taking a particular modification of a subject, e.g. Zoology IIM instead of Zoology III, should consult the time-table in the department.

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------------|--|------------------------------|---------------------|------------------------------|---------------------|-------------|
| THIRD-YEAR SUBJECTS | | | | | | |
| MA13 } MA43 } | Anatomy and Histology— | | | | | |
| | Lectures..... | 11 | 11 | — | 11 | — |
| | Practical (9 hours)..... | 2.10-5 | — | — | — | all day |
| | Tutorial (1 hour)..... | — | — | — | 10 | — |
| QN03 } | Applied Mathematics— | | | | | |
| QN83 } | Lectures (6 hours)..... | 9, 2.15 | 9 | 9, 10 | 9 | 9, 10, 2.15 |
| QN13 } | Tutorial (1 hour)..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| SY03 } | Biochemistry— | | | | | |
| SY83 } | Lectures..... | 12 | — | 12 | 12 | 10 |
| | Tutorial..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (10 hours)..... | all day | all day | — | all day (A) | all day (B) |
| | (Mon. and Tues. practicals are alternatives) | | | | | |
| SB03 } | Botany— | | | | | |
| SB83 } | Lectures..... | 10, 11, 5.15 ^a | — | 10, 11, 2.15 ^a | — | 10, 11 |
| | Practical (6 hours)..... | 2.10-5 | all day | — | all day | all day |
| SC23 } | Chemistry— | | | | | |
| | Lectures ^h | | | | | |
| | Tutorial ^h | | | | | |
| QA03 } | Computing Science— | | | | | |
| QA13 } | Lectures..... | 3.15, 4.15 | 2.15, 4.15 | 2.15, 4.15 | 2.15, 4.15 | 4.15 |
| QA83 } | Tutorial..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (4 hours)..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| SJ03 } | Genetics— | | | | | |
| | Lectures (3 hours)..... | — | 10, 12 | — | 9, 10 | — |
| | Tutorial..... | — | 9 | — | — | — |
| | Practical (8 hours)..... | ≠ | 2.10-5 ^b | ≠ | 2.10-5 ^b | ≠ |
| SG03 } | Geology— | | | | | |
| SG23 } | Lectures..... | 9, 10, 5.15 | 9, 10, 5.15 | — | 9, 10, 5.15 | 9, 10, 5.15 |
| SG83 } | Practical (6 hours/unit) ^c | all day | all day | — | all day | all day |
| SG73 } | Geophysics— | | | | | |
| | Lectures..... | — | 5.15 | — | 5.15 | — |
| | Practical..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| QF03 } | Mathematical Physics— | | | | | |
| QF13 } | Theoretical Physics— | | | | | |
| | Lectures ^l | — | 2.15 | 2.15, 3.15 | 2.15 | — |
| | Tutorial..... | ≠ | 3.15 | ≠ | 3.15 | ≠ |
| QT03 } | Mathematical Statistics— | | | | | |
| | Lectures (5 hours)..... | 11 | 11 | 11 | 11 | 11 |
| | Tutorial (2 hours)..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| SK03 } | Microbiology and Immunology— | | | | | |
| | Lectures..... | — | 9 | 11 | 9 | — |
| | Tutorial..... | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (10 hours)..... | — | 9-1, 2.10-5 | 9-1, 2.10-5 | — | — |

FACULTY OF MATHEMATICAL SCIENCES AND
SCIENCE—Continued

TIME-TABLE OF SUBJECTS FOR THE DEGREE OF
BACHELOR OF SCIENCE

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------------------------------------|--|-----------------------------------|-----------------------------|-------------------------------------|---------------------------------------|-------------------------------|
| THIRD-YEAR SUBJECTS (Contd.) | | | | | | |
| SO03 } SO83 } | Organic Chemistry— Lectures Tutorial Practical (12 hours) | 9, 4.15 ≠ — | 5.15 ≠ all day (A) | 9 ≠ all day (A) | — ≠ all day (B) | 9, 4.15 ≠ all day (B) |
| SG13 | Palaeontology— Lectures Practical..... | ≠ ≠ | ≠ ≠ | ≠ ≠ | ≠ ≠ | ≠ ≠ |
| MR43 } MR53 } | Pharmacology— Lectures Practical (9 hours)..... | 9 — | — — | — all day | 9 ^f 2.15-5 ^f | 11 — |
| SC03 } SC13 } SC83 } | Physical and Inorganic Chemistry— Lectures Practical (12 hours) | 5.15 — | 9, 4.15 all day (A) | 4.15, 5.15 all day (A) | 9, 4.15 all day (B) | 5.15 all day (B) |
| SP03 | Physics— Lectures Practical (9 hours)..... | 11, 12 all day | 11, 12 — | 11, 12 all day | 11, 12 all day | 11, 12 all day |
| SS03 } SS83 } | Physiology— Lectures Practical (9 hours)..... | 10 — | 9 all day ^k | 10 — | — — | — — |
| AY23 | Psychology— Lectures Tutorial (1 hour)..... Practical (6 hours)..... | 3.15, 5.15 ≠ ≠ | 4.15 ≠ ≠ | 3.15, 5.15 ≠ ≠ | 3.15 ≠ ≠ | 3.15, 5.15 ≠ ≠ |
| QM03 } QM13 } QM83 } | Pure Mathematics— Lectures (5 hours) Tutorial (1 hour)..... | 10, 12 ≠ | 10, 12 ≠ | 12 ≠ | 10, 12 ≠ | 12, 3.15 ≠ |
| SZ03 } SZ83 } | Zoology— Lectures Practical (9 hours)..... | 9, 5.15 2.10-5(A) ^l | — 2.10-5(B) ^l | 9, 2.15 all day (B) ^l | 9 — | 9 all day (A) ^l |

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-tables.

Alternatives are indicated by A, B, C, etc.

≠ Time to be arranged.

^a—One Botany unit may be held at these times. Alternative practical times may be arranged.

^b—Two additional hours practical to be arranged.

^c—Students taking subject SG03 are required to attend both Monday and Friday practical classes in Geology.

^d—Second and third terms only.

^e—Available only for those students who obtain prior permission from the Head of Department.

^f—Students wishing to take both Genetics and Pharmacology should consult the Departments about this clash.

^g—An alternative to this class will be arranged for students taking Biochemistry.

^h—Times for lectures and practicals are within those times specified for Organic Chemistry and Physical and Inorganic Chemistry.

^j—The unit F304 (P309) Relativity is common to Physics and is given at a Physics lecture time.

^k—Three additional hours practical to be arranged.

^l—Class to be held only if numbers warrant.

FACULTY OF MEDICINE
TIME-TABLE OF SUBJECTS FOR THE DEGREES OF
BACHELOR OF MEDICINE AND
BACHELOR OF SURGERY

1981

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|----------------------------|--|--------|---------|-----------|---|---------------------|
| FIRST-YEAR SUBJECTS | | | | | | |
| MA01 | Anatomy I— | | | | | |
| | Lectures Term 1 | — | 9 | — | — | — |
| | Terms 2 and 3 | — | 12 | — | — | — |
| | Practical ^b | — | 2-4 | 2-4(T.3) | 2-4 | — |
| SC71 | Chemistry IM— | | | | | |
| | Lectures | 10 | — | 10 | — | 10 |
| | Tutorial | — | — | 11, 12 | — | — |
| | Practical (3 hours) | — | 2.10-5 | — | 2.10-5 | 2.10-5 |
| SJ8H | Genetics IH(M)— | | | | | |
| | Lectures (1 hour) | 9 | — | — | 12 | — |
| | Practical/Tutorial (1½ hours) | — | — | — | 9(A), 10.40(B), 2.10(C), 3.40(D) | 2.10(E), 3.40(F) |
| SZ61 | Biology IM— | | | | | |
| | Lectures | — | — | 9 | — | 9 |
| | Tutorial | ≠ | ≠ | ≠ | ≠ | ≠ |
| | Practical (4 hours) ^d | | | | | |
| MH71 | Behavioural Science— | | | | | |
| | Lectures | 11 | 11 | — | — | 11 |
| | Tutorial | — | ≠ | ≠ | ≠ | — |
| | Practical | 2-5 | — | — | — | — |

Core Instruction in Bio-medical Statistics will be given in Term 1 at a time to be determined.
Instruction in Emergency Medicine will be given in Terms 2 and 3 at a time to be determined.

SECOND- AND LATER-YEAR SUBJECTS

Pre-clinical subjects—Departments of Anatomy, Biochemistry, Clinical and Experimental Pharmacology and Physiology.
Clinical and Para-clinical subjects—Medical School Office.

NOTE: Morning lectures in all subjects will commence at ten minutes past the hour shown in the time-tables (including those shown as 12 noon).

Afternoon and evening lectures will commence at the time shown in the time-table.

Alternatives are indicated by A to F.

a — The laboratories are open during the following hours:

9 a.m.-6 p.m. Monday and Friday.

9 a.m.-10 p.m. Tuesday, Wednesday and Thursday.

≠ 1 hour to be arranged.

b — Term 1: 2 hours every second week.

Term 2: 2 hours every second week and 1 hour in alternative weeks.

Term 3: As for Term 2, plus 2 hours each week on another day.

**TIME-TABLES FOR ARCHITECTURE, LAW, AND MUSIC
1981**

Particulars of time-tables for subjects in these courses may, after enrolments are completed, be obtained as follows:

Course

ARCHITECTURE (B.Arch.)*
LAW
MUSIC

Particulars from

Architecture General Office.
Law School Office.
Music General Office.

* For B.Arch.St. time-tables see page 940.

LATE AFTERNOON AND EVENING LECTURES, 1981
FACULTIES OF ARTS AND ECONOMICS

This table does not include subjects for which lectures are available at or after 4.15 p.m. but for which practical classes and tutorials are available only at earlier times.

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|---|--|-------------------|-------------------|-------------------|------------------------|-------------------|
| FIRST-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| AA01 | Anthropology I..... | — | — | 4.15 | — | 4.15 |
| SZ71 | Biology I (<i>see</i> also under B.Sc., Faculties of Mathematical Sciences and Science)..... | — | 5.15 | — | 5.15 | — |
| LL2H | Commercial Law IH..... | 4.15 ^f | — | — | — | 5.15 ^f |
| EE4H | Economic History IH..... | — | — | — | 6.15 | — |
| EE11 | Economics I..... | 5.15 | — | 5.15 | — | — |
| AE01 | English I..... | — | 5.15 | — | 5.15 | — |
| AF01 | French I..... | 5.15 | — | 4.15, 5.15 | 5.15 | — |
| AH01 | History IA } History IB } | — | — | — | — | — |
| AH31 | H102 Old Societies and New States .. | 4.15 ^d | — | 4.15 ^d | — | 4.15 ^d |
| AQ31 | Japanese IA..... | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
| AL2H | Logic IH..... | — | 5.15 | — | — | — |
| EE1G | Macroeconomics IH..... | 5.15 | — | — | — | — |
| EE2G | Microeconomics IH..... | — | — | — | — | — |
| UA51 | Music I } Music IA } | 4.15 to 6.05 | — | 5.15 4.15 | — | — |
| AL1H | Philosophy IH(A)..... | — | — | — | 5.15 | — |
| AL3H | Philosophy IH(B)..... | 5.15 ^e | 5.15 ^a | — | — | — |
| AP11 | Politics IA } Politics IB } | — | — | — | — | — |
| AP21 | P702 Political Development in Australia..... | — | 5.15 | — | 5.15 | — |
| AY01 | Psychology I..... | 5.15 | — | 5.15 | — | 5.15 |
| EE71 | Social Economics..... | 5.15 | — | 5.15 | — | — |
| SECOND-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| AA02 | Anthropology IIA..... | — | — | 4.15 | — | 4.15 |
| AQ02 | Chinese II..... | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 |
| LL3H | Commercial Law IIH..... | 5.15 ^k | — | — | — | 5.15 ^k |
| EE22 | Economic Statistics II..... | — | 5.15 | — | 5.15 | — |
| EE32 | Economic Statistics IIA..... | — | 5.15 | — | 5.15 | — |
| AE02 | English II..... | — | 5.15 | — | 5.15 | — |
| AE22 | English IIB } English IIC } | — | 5.15 | — | 5.15 | — |
| AE32 | E704 American Studies..... E706 Linguistics..... | 5.15 | — | 5.15 | — | — |
| AG02 | German II } (Times include options. An asterisk indicates a language class. Students normally attend 3 lectures—refer Depart- mental handbook) | — | 4.15 | — | 4.15 | — |
| AG12 | German IIA } German IIB } | — | 5.15 | — | 4.15 5.15, 6.15* | — |

LATE AFTERNOON AND EVENING LECTURES, 1981
FACULTIES OF ARTS AND ECONOMICS—Continued

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--|---|------------------------|-------------------|-------------------|-------------------------|-------------------|
| SECOND-YEAR SUBJECTS (Contd.) | | | | | | |
| AH02 | History IIA } | | | | | |
| AH22 | History IIB } | | | | | |
| | H701 History of the Family..... | 4.15 | — | 4.15 | — | — |
| | H711 The United States | 5.15 | — | 5.15 | — | — |
| | H715 Africa | — | 4.15 | — | 4.15 | — |
| LL1H | Income Tax IIIH..... | 4.15-6.15 ^l | — | — | — | — |
| AL22 | Logic II (see Philosophy II) | — | — | 5.15 | — | — |
| EE4G | Microeconomics IIIH..... | — | — | — | — | — |
| AL02 | Philosophy II— | | | | | |
| | L201 Logic A | — | — | 4.15 ^a | — | 4.15 ^a |
| | L203 Philosophy of Religion..... | — | — | 6.15 ^a | — | 5.15 ^a |
| | L205 Logic B..... | — | — | 4.15 ^b | — | 4.15 ^b |
| | L225 Political Philosophy..... | — | — | 6.15 ^b | — | 5.15 ^b |
| | L208 Logic C..... | — | — | 4.15 ^c | — | 4.15 ^c |
| | L221 Marxism..... | — | — | 6.15 ^c | — | 5.15 ^c |
| AP32 | Politics IIA | | | | | |
| AP42 | Politics IIB | | | | | |
| | P702 Political Development in Australia..... | — | 5.15 | — | 5.15 | — |
| | P705 Chinese Politics | — | 5.15 | — | 5.15 | — |
| THIRD-YEAR SUBJECTS AND HALF-SUBJECTS | | | | | | |
| EC03 | Accounting III..... | — | 5.15 | — | 5.15 | — |
| AA03 | Anthropology IIIA..... | — | — | 4.15 to 6.05 | — | — |
| AQ43 | Asian Development III | — | 5.15 | — | 5.15 | — |
| EC1H | Computerised Accounting Systems IIIH | | | | | |
| EE13 | Economic Development III..... | 5.15-7.15 | — | 5.15-7.15 | — | — |
| EE73 | Economic Development Studies III (see times of component parts) | | | | | |
| EE9G | Economic of Antitrust and Regulation IIIH..... | — | — | 4.15 | — | — |
| AE13 | English IIIB— | | | | | |
| | E704 American Studies..... | 5.15 | — | 5.15 | — | — |
| | E706 Linguistics | — | 4.15 | — | 4.15 | — |
| AJ13 | Geography IIIA } | | | | | |
| AJ23 | Geography IIIB } | | | | | |
| AJ8H | Geography IIIB } | | | | | |
| | J720 Biogeography | — | — | 4.15 ^k | — | 4.15 ^k |
| | J723 Cultural Geography..... | 4.15 ^l | — | — | 4.15 ^l | — |
| | J724 Economic Geography | — | 4.15 ^k | — | — | 4.15 ^k |
| | J725 Geomorphology..... | — | — | 4.15 ^l | — | 4.15 ^l |
| | J726 Rural Geography..... | 5.15 ^l | — | — | 5.15 ^l | — |
| | J728 Urban Geography | 4.15 ^k | — | — | 4.15 ^k | — |
| | J734 Social Survey | — | 4.15 to 6.05 | — | — | — |
| AG03 | German III (Times include options. | | | | | |
| AG88 | German IIIB (An asterisk indicates a language class. Refer to Departmental Handbook.) | | | | | |
| | | — | 5.15 | — | 4.15, 5.15, 6.15* | — |
| AH03 | History IIIA } (see History II) | | | | | |
| AH13 | History IIIB } | | | | | |
| EC23 | Industrial Sociology III | — | — | 5.15 | — | 5.15 |

LATE AFTERNOON AND EVENING LECTURES, 1981
FACULTIES OF ARTS AND ECONOMICS—Continued

| Syllabus No. | Subject | Monday | Tuesday | Wednesday | Thursday | Friday |
|--------------|--|-------------------|-------------------|-------------------|----------|-------------------|
| AL23 | Logic III (see Philosophy II) | | | | | |
| EC2H | Management Decision Analysis IIIH ... | — | 5.15 | — | — | — |
| EE7H | Managerial Economics IIIH..... | — | — | — | 6.15 | — |
| AL03 | Philosophy IIIA } (see Philosophy II) | | | | | |
| AL13 | Philosophy IIIB } | | | | | |
| AP03 | Politics IIIA } | | | | | |
| AP13 | Politics IIIB } | | | | | |
| | P705 Chinese Politics | — | 5.15 | — | 5.15 | — |
| | P713 Modern Political Thought..... | — | 4.15 | — | 4.15 | — |
| | P714 State, Society and Political Regimes..... | 5.15 | — | 5.15 | — | — |
| EE2H | Public Finance IIIH | — | 4.15 | — | — | — |
| AY23 | Psychology III | 5.15 ^f | 4.15 ^f | 5.15 ^f | — | 5.15 ^f |
| AY1H | Psychology IIIH(A) } | | | | | |
| AY2H | Psychology IIIH(B) } | | | | | |

- a — First term only.
- b — Second term only.
- c — Third term only.
- d — First and second terms only.
- e — Second and third terms only.
- f — Subject arranged on optional unit basis.
- j — First half of year.
- k — Second half of year.

NOTE: The following information about subjects which are normally available at late afternoon or evening lectures may help part-time students to plan their courses. All subjects and times are offered subject to availability of staff and are subject to revision.

First-year subjects

Anthropology I, Biology I, Economics I, English I, a first-year History, Music I and 1A, first year half-subjects in Philosophy and Logic, at least one first-year Politics, and Psychology I are normally available at late lectures.

Anthropology

Anthropology I, a second-year and a third-year Anthropology subject are normally available at late lectures.

Asian Studies

Chinese I (when available) can be offered at late lectures if students wish; in 1981, Japanese 1A and the interdisciplinary subject Asian Development III are available at late lectures.

Classics

No late lectures.

Economics and Commerce

Economics I is normally offered at late lectures every year. The other compulsory B.Ec. subjects and half-subjects are normally offered in alternate years at late lectures. Some non-compulsory subjects are available each year at evening lectures. For further details see B.Ec. syllabuses and time-tables.

English

At present English I and E706 Linguistics are offered at late lectures every year; English II and E704 American Studies in odd years; English IIIA and E705 Australian Literary Studies in even years.

French

In 1981, French I is available at late lectures.

Geography

Even years—Second-year subjects normally available at late lectures.

Odd years—Third-year subjects normally available at late lectures.

German

Evening classes (in addition to day classes) are offered in German I, II and III in two-yearly cycles as staff and students allow.

History

At least one first-year subject and selected second- and third-year options normally available at late lectures each year.

Music

Music I and 1A are normally available at late lectures each year.

Philosophy

First-year half-subjects in Philosophy and Logic, and selected second- and third-year options in either Philosophy or Logic are normally available at late lectures each year.

Politics

Selected options at first-, second- and third-year level are normally available at late lectures each year.

Psychology

Psychology I and III are normally available at late lectures every year; Psychology II is normally available at late lectures in even years.

TABLES

| | |
|--|-----|
| Unacceptable Combinations of Subjects..... | 968 |
| Faculties and Departments..... | 973 |
| Syllabus Numbers of Subjects and Half-Subjects | 974 |
| Table of Subjects (in alphabetical order)..... | 980 |
| Unitised Subjects and Subjects with Options..... | 986 |
| Code Lists for Enrolment Purposes..... | 993 |

**TABLE OF
UNACCEPTABLE COMBINATIONS OF SUBJECTS**

If a subject or half-subject in column A is counted towards a degree or diploma, the subject(s) or half-subject(s) set out opposite it in column B cannot also be counted.

| A | B |
|--|---|
| EE4H Agricultural Economics IIIH | EE63 Farm Prices and Policy |
| AC73 Ancient History III | AC72 Ancient History II (before 1978) |
| QN22 Applied Mathematics IIA | QN02 Applied Mathematics II (before 1974) |
| | QN12 Applied Mathematics IIB |
| | QN32 Applied—Pure Mathematics IIC (before 1978) |
| | QN42 Applied—Pure Mathematics IID (before 1978) |
| | QA22 Computing—Applied Mathematics IIC (before 1977) |
| | QA32 Computing—Applied Mathematics IID (before 1977) |
| | AM22 Mathematics IIM (before 1976) |
| QN12 Applied Mathematics IIB | QN02 Applied Mathematics II (before 1974) |
| | QN22 Applied Mathematics IIA |
| | QN32 Applied—Pure Mathematics IIC (before 1978) |
| | QN42 Applied—Pure Mathematics IID (before 1978) |
| | QA7H Computing IH (before 1976) |
| | QA22 Computing—Applied Mathematics IIC (before 1977) |
| | QA32 Computing—Applied Mathematics IID (before 1977) |
| | QM22 Mathematics IIM (before 1976) |
| AQ42 Asian Civilisations: Past and Present II | AQ12 Asian Development II (before 1980) |
| LL54 Associations | LL3H Commercial Law IIIH |
| SZ71 Biology I | SB01 Botany I (before 1971) |
| | SB5H Environmental Biology IH |
| | SB1H General Biology IH (before 1977) |
| | SB2H Plant Biology IH (before 1977) |
| | SZ01 Zoology I (before 1976) |
| SB6H Botany IH | SB5H Environmental Biology IH |
| NH12 Chemical Engineering II | SG72 Geophysics II |
| SC12 Chemistry II | SC22 Chemistry IIE |
| | SO02 Organic Chemistry II |
| | SC02 Physical and Inorganic Chemistry II |
| SC22 Chemistry IIE | SC12 Chemistry II |
| | SO02 Organic Chemistry II |
| | SC02 Physical and Inorganic Chemistry II |
| SC23 Chemistry III | SC03 Physical and Inorganic Chemistry IIIA |
| | SC13 Physical and Inorganic Chemistry IIB |
| | SC83 Physical and Inorganic Chemistry IIIM |
| | SO03 Organic Chemistry III |
| | SO83 Organic Chemistry IIIM |

| A | | B | |
|------|-----------------------------------|------|--|
| AC92 | Classical Art and Archaeology II | AC93 | Classical Art and Archaeology III |
| AC93 | Classical Art and Archaeology III | AC92 | Classical Art and Archaeology II |
| LL2H | Commercial Law IH | LL92 | Commercial Law IIA |
| | | LL01 | Elements of Law |
| | | LL73 | Commercial Transactions |
| | | LL02 | The Law of Contract |
| LL3H | Commercial Law IIIH | LL92 | Commercial Law IIA |
| | | LL54 | Associations |
| LL92 | Commercial Law IIA | LL2H | Commercial Law IH |
| | | LL3H | Commercial Law IIIH |
| LL73 | Commercial Transactions | LL2H | Commercial Law IH |
| QA7H | Computing IH | QN12 | Applied Mathematics IIB (before 1976) |
| | | QA12 | Computing Science IIC |
| | | QM22 | Mathematics IIM (before 1976) |
| QA02 | Computing Science II | QA22 | Computing—Applied Mathematics IIC (before 1977) |
| | | QA32 | Computing—Applied Mathematics IID (before 1977) |
| | | QA42 | Computing—Pure Mathematics IIC (before 1977) |
| | | QA52 | Computing—Pure Mathematics IID (before 1977) |
| | | QA12 | Computing Science IIC |
| QA12 | Computing Science IIC | QA7H | Computing IH (after 1975) |
| | | QA22 | Computing—Applied Mathematics IIC (before 1977) |
| | | QA32 | Computing—Applied Mathematics IID (before 1977) |
| | | QA02 | Computing Science II |
| | | QA42 | Computing—Pure Mathematics IIC (before 1977) |
| | | QA52 | Computing—Pure Mathematics IID (before 1977) |
| | | QM22 | Mathematics IIM (before 1976) |
| QA03 | Computing Science III | EC3H | Information Systems and Data Processing IIIH |
| QA13 | Computing Science IIIA | | |
| QA83 | Computing Science IIIM | EC2H | Introduction to Operations Research IIIH |
| AQ43 | Asian Development III | AQ12 | Asian Development II (before 1980) |
| AJ71 | Economic Geography I | AJ01 | Geography I |
| | | AJ2H | Human Geography IH |
| | | AJ1H | Physical Geography IH |
| EE02 | Economic Statistics II | EE32 | Economic Statistics IIA |
| | | QT02 | Mathematical Statistics II |
| | | QT7H | Statistics IH |
| EE32 | Economic Statistics IIA | EE02 | Economic Statistics II |
| | | QT02 | Mathematical Statistics II |
| | | QT7H | Statistics IH |
| EE03 | Economics III (Ag.Sc.) | QT02 | Mathematical Statistics II |

(only if candidates are presenting the optional half-subject EE8H Econometrics IIIH with the compulsory subject EE33 Economics IIIA).

| A | | B | |
|------|--|------|--|
| EE43 | Economics of Natural Resource Use | EE2H | Public Finance IIIH |
| LL01 | Elements of Law | LL2H | Commercial Law IH |
| NX21 | Engineering IA | NX01 | Engineering I (before 1981) |
| | | NX31 | Engineering IB |
| NX31 | Engineering IB | NX01 | Engineering I (before 1981) |
| | | NX21 | Engineering IA |
| SB5H | Environmental Biology IH | SZ71 | Biology I |
| | | SB6H | Botany IH |
| | | SB2H | Plant Biology IH (before 1977) |
| EE63 | Farm Prices and Policy | EE4H | Agriculture Economics IIIH |
| AF01 | French I | AF11 | French IA |
| AF11 | French IA | AF01 | French I |
| AF02 | French II | AF12 | French IIA |
| AF12 | French IIA | AF02 | French II |
| AJ01 | Geography I | AJ71 | Economic Geography I |
| | | AJ2H | Human Geography IH |
| | | AJ1H | Physical Geography IH |
| SG01 | Geology I | SG1H | General Geology IH (before 1975) |
| | | SG7H | Geology IH (before 1976) |
| | | SG7H | Environmental Geology IH (before 1980) |
| | | SG2H | Physical Geology IH (before 1975) |
| SG72 | Geophysics II | NH12 | Chemical Engineering II |
| AG01 | German I | AG11 | German IA |
| AG11 | German IA | AG01 | German I |
| AG02 | German II | AG12 | German IIA |
| AG12 | German IIA | AG02 | German II |
| AC11 | Greek I | AC82 | Greek IIA |
| | | AC78 | Greek IIIS |
| AC71 | Greek IA | AC77 | Greek IIS |
| AC82 | Greek IIA | AC11 | Greek I |
| | | AC78 | Greek IIIS |
| AC77 | Greek IIS | AC71 | Greek IA |
| AC78 | Greek IIIS | AC11 | Greek I |
| | | AC82 | Greek IIA |
| AJ2H | Human Geography IH | AJ71 | Economic Geography I |
| | | AJ01 | Geography I |
| LL1H | Income Tax IIIH | LL64 | Taxation Law |
| EC3H | Information Systems and Data Processing IIIH | EC6H | Management Information Systems IIIH |
| | | QA03 | Computing Science III |
| | | QA13 | Computing Science IIIA |
| | | QA83 | Computing Science IIIM |
| EC2H | Introduction to Operations Research IIIH | QA03 | Computing Science III |
| | | QA13 | Computing Science IIIA |
| | | QA83 | Computing Science IIIM |
| AQ21 | Japanese I | AQ31 | Japanese IA |
| AQ31 | Japanese IA | AQ21 | Japanese I |

TABLE OF UNACCEPTABLE
COMBINATIONS OF SUBJECTS

TABLES

| A | | B | |
|------|---------------------------------------|------|--|
| AC01 | Latin I | AC41 | Latin IA |
| | | AC42 | Latin IIA |
| | | AC67 | Latin IIIS |
| AC41 | Latin IA | AC57 | Latin IIS |
| AC42 | Latin IIA | AC01 | Latin I |
| | | AC67 | Latin IIIS |
| AC57 | Latin IIS | AC41 | Latin IA |
| AC67 | Latin IIIS | AC01 | Latin I |
| | | AC42 | Latin IIA |
| AL22 | Logic II | AL23 | Logic III |
| AL23 | Logic III | AL22 | Logic II |
| EE1G | Macroeconomics IH | EE83 | Agricultural Economics I (before 1974) |
| | | EE01 | Economics I (before 1974) |
| EE3G | Macroeconomics IIH | EE02 | Economics II (before 1974) |
| EC6H | Management Information Systems IIH | EC3H | Information Systems and Data Processing IIH |
| EE2F | Mathematical Economics IH | QM01 | Mathematics I |
| | | QM7H | Mathematics IH |
| | | QM11 | Mathematics IM |
| | | SM71 | Mathematics IS (before 1971) |
| QF13 | Mathematical Physics III | QF03 | Theoretical Physics III |
| QT02 | Mathematical Statistics II | EE03 | Economics III (Ag. Sc.) <small>(only if candidates are presenting the optional half-subject EE8H Econometrics IIH with the compulsory subject EE33 Economics IIIA).</small> |
| | | EE02 | Economic Statistics II |
| | | EE32 | Economic Studies IIA |
| QM01 | Mathematics I | EE2F | Mathematical Economics IH |
| | | QM7H | Mathematics IH |
| | | QM11 | Mathematics IM |
| | | SM71 | Mathematics IS (before 1971) |
| | | EE41 | Mathematics (Economics) I (before 1978) |
| QM7H | Mathematics IH | EE2F | Mathematical Economics IH |
| | | QM01 | Mathematics I |
| | | QM11 | Mathematics IM |
| | | SM71 | Mathematics IS (before 1971) |
| | | EE41 | Mathematics (Economics) I (before 1978) |
| QM11 | Mathematics IM | EE2F | Mathematical Economics IH |
| | | QM01 | Mathematics I |
| | | QM7H | Mathematics IH |
| | | SM71 | Mathematics IS (before 1971) |
| | | EE41 | Mathematics (Economics) I (before 1978) |
| SK32 | Microbiology and Immunology II | SK03 | Microbiology and Immunology III |
| EE2G | Microeconomics IH | EE83 | Agricultural Economics I (before 1974) |
| | | EE01 | Economics I (before 1974) |
| EE4G | Microeconomics IIH | EE02 | Economics II (before 1974) |
| UA51 | Music I | UA61 | Music IA |
| UA61 | Music IA | UA51 | Music I |
| SO02 | Organic Chemistry II | SC12 | Chemistry II |
| | | SC22 | Chemistry IIE |

| A | | B | |
|------|--|------|---|
| SO03 | Organic Chemistry III | SC23 | Chemistry III |
| SO83 | Organic Chemistry IIIM | | |
| AL1H | Philosophy IH (A) | AL1H | Introductory Philosophy IH (before 1975) |
| | | AL01 | Philosophy I (before 1974) |
| AL3H | Philosophy IH(B) | AL1H | Introductory Philosophy IH (before 1975) |
| | | AL01 | Philosophy I (before 1974) |
| SC02 | Physical and Inorganic Chemistry II | SC12 | Chemistry II |
| | | SC22 | Chemistry IIE |
| SC03 | Physical and Inorganic Chemistry IIIA | | |
| SC13 | Physical and Inorganic Chemistry IIIB | SC23 | Chemistry III |
| SC83 | Physical and Inorganic Chemistry IIIM | | |
| AJ1H | Physical Geography IH | AJ01 | Geography I |
| | | AJ71 | Economic Geography I |
| SP01 | Physics I | SP7H | Physics IH(M) |
| | | SP7H | Physics IM (before 1976) |
| | | SP9H | Physics, Man and Society IH |
| SP7H | Physics IH(M) | SP01 | Physics I |
| | | SP7H | Physics IM (before 1976) |
| | | SP9H | Physics, Man and Society |
| SP9H | Physics, Man and Society IH | SP01 | Physics I |
| | | SP7H | Physics IM (before 1976) |
| | | SP8H | Physics IH(M) |
| AP11 | Politics IA | AP01 | Politics I (before 1976) |
| AY23 | Psychology III | AY1H | Psychology IIH(A) |
| | | AY2H | Psychology IIH(B) |
| AY1H | Psychology IIH(A) | AY23 | Psychology III |
| AY2H | Psychology IIH(B) | | |
| EE2H | Public Finance IIH | EE43 | Economics of Natural Resource Use |
| QM02 | Pure Mathematics II | QN32 | Applied—Pure Mathematics IIC |
| | | QN42 | Applied—Pure Mathematics IID |
| | | QA42 | Computing—Pure Mathematics IIC (before 1977) |
| | | QA52 | Computing—Pure Mathematics IID (before 1977) |
| | | QM22 | Mathematics IIM (before 1976) |
| EE71 | Social Economics I | EE01 | Economics I (before 1974) |
| | | EE1G | Macroeconomics IH |
| | | EE2G | Microeconomics IH |
| QT7H | Statistics IH | EE02 | Economic Statistics II |
| | | EE32 | Economic Statistics IIA |
| LL64 | Taxation Law | LL1H | Income Tax IIH |
| LL02 | The Law of Contract | LL2H | Commercial Law IH |
| QF03 | Theoretical Physics III | QF13 | Mathematical Physics III |

TABLE OF FACULTIES AND DEPARTMENTS

| | Code | Page | | Code | Page |
|---|------|------|--|------|----------|
| Faculty of Agricultural Science | W— | 429 | Board of Environmental Studies | V— | 907 |
| Agricultural Biochemistry | WB | 429 | | | |
| Agronomy | WA | 432 | Faculty of Law | L— | 734 |
| Animal Physiology | WN | 434 | Law | | |
| Biometry Section | WY | 435 | LL.B. | { LL | 734 |
| Entomology | WE | 438 | LB | { LB | 734 |
| Plant Pathology | WP | 439 | M.L.S. | { LS | 745 |
| Plant Physiology | WF | 440 | | | |
| Soil Science | WS | 441 | | | |
| Faculty of Architecture and Planning | R— | 554 | Mathematical Sciences | Q— | 760 |
| Architecture | | | Applied Mathematics | QN | 767 |
| B.Arch.St. | RS | 458 | QA | QA | 760 |
| B.Arch. (Old Course) | RA | 471 | Computing Science | OF | 766 |
| B.Arch. (New Course) | RR | 481 | Mathematical Physics | OM | 767 |
| | | | Pure Mathematics | QT | 777 |
| | | | Statistics | | |
| Faculty of Arts | A— | 499 | Faculty of Medicine | M— | 802 |
| Anthropology | AA | 499 | Anatomy and Histology | MA | 802, 852 |
| Asian Studies, Centre for | AQ | 502 | Clinical and Experimental Pharmacology | MR | 802, 879 |
| Classics | AC | 509 | Community Medicine | MU | 802 |
| Education | AD | 590 | Medicine | MM | 802 |
| English Language and Literature | AE | 523 | Obstetrics and Gynaecology | MO | 802 |
| French Language and Literature | AF | 530 | Paediatrics | MC | 802 |
| Geography | AJ | 538 | Pathology | MP | 802 |
| German Language and Literature | AG | 542 | Psychiatry | MH | 802 |
| History | AH | 549 | Surgery | MS | 802 |
| Language Laboratory | AS | 581 | | | |
| Philosophy | AL | 561 | Faculty of Music | U— | 834 |
| Politics | AP | 567 | Elder Conservatorium of Music | UM | 834 |
| Psychology | AY | 578 | Drama (for B.A.) | UA | 520 |
| | | | Music (for B.A.) | UA | 557 |
| Faculty of Dentistry | D— | 623 | Faculty of Science | S— | 852 |
| Dental Health | DH | 623 | Biochemistry and General Physiology | SY | 854 |
| Oral Biology | DB | 623 | Botany | SB | 857 |
| Oral Pathology and Oral Surgery | DP | 623 | Economic Geology | SE | 871 |
| Restorative Dentistry | DR | 623 | Genetics | SJ | 869 |
| | | | Geology and Mineralogy | SG | 871 |
| Faculty of Economics | E— | 649 | Microbiology and Immunology | SK | 878 |
| Commerce | EC | 661 | Organic Chemistry | SO | 867 |
| Economics | EE | 649 | Physical and Inorganic Chemistry | SC | 863 |
| | | | Physics | SS | 886 |
| Faculty of Engineering | N— | 687 | Physiology | SP | 880 |
| Chemical Engineering | NH | 687 | Zoology | SZ | 890 |
| Civil Engineering | NC | 692 | | | |
| Civil Engineering (Architecture Course) | NR | 471 | | | |
| Electrical Engineering | NE | 699 | | | |
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| E545 | Stochastic Processes in Communication Systems | | | | | |
| E546 | Synthesis of Active and Passive Networks | | | | | |
| E547 | Power Electronics A | | | | | |
| E548 | Numerical Solution of Electromagnetic Fields | | | | | |
| E549 | Power Electronics B | | | | | |
| NM05 | Mechanical Engineering for M.Eng.Sc. (One-third Course Work) | M561 | Numerical Methods | | | |
| NM15 | Mechanical Engineering for M.Eng.Sc. (Two-thirds Course Work) | M562 | Turbulence | | | |
| | | M563 | Solar Energy | | | |
| | | M564 | Random Vibrations | | | |
| | | M565 | Energy Systems Overview | | | |
| | | M566 | Industrial Noise Control | | | |
| English | AE22 | English IIB | E704 | American Studies | | |
| | AE32 | English IIC | E705 | Australian Literary Studies | | |
| | AE13 | English IIIB | E706 | Linguistics | | |
| Geography | AJ12 | Geography IIA | J710 | Biogeography | | |
| | AJ22 | Geography IIB | J711 | Economic Geography | | |
| | AJ7H | Geography IIH | J712 | Geomorphology | | |
| | | | J713 | Social Geography | | |
| | AJ13 | Geography IIIA | J720 | Biogeography | | |
| | AJ23 | Geography IIIB | J721 | Cartography | | |
| | AJ8H | Geography IIIB | J723 | Cultural Geography | | |
| | | | J724 | Economic Geography | | |
| | | | J725 | Geomorphology | | |
| | | | J726 | Rural Geography | | |
| | | | J727 | South-East Asia | | |
| | | | J728 | Urban Geography | | |
| | | | J733 | Remote Sensing | | |
| | J734 | Social Survey | | | | |

TABLE OF UNITISED SUBJECTS
AND SUBJECTS WITH OPTIONS

TABLES

| Department | Syllabus Number | Subject | Unit Code | Title of Unit of Option |
|----------------------|-----------------|-----------------------------------|-----------|---|
| Geology | SG03 | Geology III | G301 | Stratigraphy A |
| | SG13 | Palaeontology III | G302 | Sedimentology |
| | SG23 | Geology and Economic Geology IIIA | G303 | Structural Geology |
| | SG33 | Geology and Economic Geology IIIB | G304 | Igneous and Metamorphic Petrology A |
| | SG73 | Geophysics III | G305 | Igneous and Metamorphic Petrology B |
| | SG83 | Geology IIIM | G306 | Mineral Deposits A |
| | | | G307 | Mineral Deposits B |
| | | | G308 | Structural Mineralogy |
| | | | G309 | Geochemistry and Isotope Geology |
| | | | G310 | General Palaeontology and Biostratigraphy |
| | | | G311 | Palaeontology A |
| | | | G312 | Palaeontology B |
| | | | G313 | Geophysics A |
| | | | G314 | Geophysics B |
| | | | G315 | Mining Geology |
| History | AH01 | History IA | H101 | European History |
| | AH31 | History IB | H102 | Old Societies and New States: The Revolutionary Transformation of Asia, Africa and the Pacific, 1700 to the Present |
| | | | H103 | Australian History |
| | AH02 | History IIA | H701 | Comparative History of the Family in Western Europe, America and Australia |
| | AH22 | History IIB | H702 | The Rise of China and Japan. Conflict and Crisis in Modern East Asia |
| | AH03 | History IIIA | H703 | France 1850-1918 |
| | AH13 | History IIIB | H704 | War and Peace: Britain and Germany and the Great War, 1890-1930's |
| | | | H705 | Russia in Crisis and Revolution: From Peter the Great to the Death of Stalin |
| | | | H707 | Bismarck to Hitler |
| | | | H709 | Australia: Outpost of Empire in the Antipodes |
| | | | H710 | Pacific History |
| | | | H711 | The United States: Settlements to Civil War |
| | | | H713 | Nationalism and Revolution in Southeast Asia |
| | | | H714 | Everyman in Pre-Industrial Europe (c. 1300-1700), his Mentality and his Basic Conditions of Life |
| | | | H715 | African History |
| | | | H716 | Fascism and National Socialism |
| Mathematical Physics | QF03 | Theoretical Physics III | F301 | Mathematical Methods |
| | QF13 | Mathematical Physics III | F302 | Advanced Dynamics |
| | | | F303 | Quantum Mechanics I |
| | | | F304 | Theory of Relativity (Same as Physics Unit P309) |
| | | | F305 | Quantum Mechanics II |
| | | | F306 | Classical Field Theory |
| | | | F307 | Statistical Mechanics |

| Department | Syllabus Number | Subject | Unit Code | Title of Unit or Option | |
|---|------------------------------|---|-----------------------------|---|---|
| Organic Chemistry | SO03 SO83 | Organic Chemistry III Organic Chemistry IIIM | O301 | Spectroscopy | |
| | | | O302 | Pericyclic Reactions and Free Radical Chemistry | |
| | | | | O303 | Physical Organic Chemistry |
| | | | | O304 | Mechanism and Synthesis I |
| | | | | O305 | Mechanism and Synthesis II |
| | | | | O306 | Heterocyclic Chemistry and Natural Products |
| | | | | O307 | Organic Chemicals in the Environment |
| Pharmacology, Clinical and Experimental | MR43 MR53 | Pharmacology III Pharmacology IIIM | R301 | Principles of Pharmacology and Toxicology | |
| | | | R302 | Systematic Pharmacology | |
| | | | R303 | Neuropharmacology | |
| Philosophy | AL02 AL22 AL03 AL13 | Philosophy II Logic II Philosophy IIIA Philosophy IIIB | L201 | Logic A | |
| | | | L203 | Philosophy of Religion | |
| | | | L204 | Ethics | |
| | | | L205 | Logic B | |
| | | | | L208 | Logic C |
| | | | | L211 | Marxism |
| | | | | L217 | Problems in Causation |
| | | | | L221 | Relativism, Witchcraft, Truth and Logic |
| | | | | L225 | Political Philosophy |
| | | | | L227 | Brainstorms |
| | | | | L228 | (Topic to be announced by February, 1981) |
| Physical and Inorganic Chemistry | SC03 SC13 SC83 | Physical and Inorganic Chemistry IIIA Physical and Inorganic Chemistry IIIB Physical and Inorganic Chemistry IIIM | C301 | Quantum Chemistry | |
| | | | C302 | Statistical Thermodynamics | |
| | | | C303 | Crystallography | |
| | | | | C305 | Molecular Spectra |
| | | | | C306 | Organometallic Chemistry |
| | | | | C307 | Macromolecules |
| | | | | C308 | Metal Complexes |
| | | | | C309 | Inorganic Reaction Mechanisms |
| | | | | C310 | Electrolyte Solutions |
| | Physics | SP03 SP83 | Physics III Physics IIIM | P301 | Electromagnetism |
| P302 | | | | Electromagnetic Waves | |
| | | | | P303 | Quantum Mechanics |
| | | | | P304 | Optics |
| | | | | P305 | Statistical Mechanics |
| | | | | P306 | Atomic Physics |
| | | | | P307 | Nuclear Physics |
| | | | | P308 | Solid State Physics |
| | | | | P309 | Relativity (Same as Maths, Physics Unit F304) |
| | | | | P310 | Astrophysics |
| | | | | P311 | Atmospheric Physics |
| | | | | P312 | Planetary Interiors |
| | | | | P313 | History and Philosophy of Physics |
| | | | | P314 | Environmental Physics |
| | | | | P315 | Biophysics |

| Department | Syllabus Number | Subject | Unit Code | Title of Unit or Option |
|--------------------------|---|-----------------------|--|--|
| Physiology | SS03 | Physiology III | S301 | Systematic Neurophysiology |
| | SS83 | Physiology IIIM | S302 | Cellular Neurophysiology and Endocrinology |
| | | | S303 | Cardiovascular and Renal Physiology |
| Politics | AP11 | Politics IA | P701 | Politics and Political Economy |
| | AP21 | Politics IB | P702 | Political Development in Australia |
| | AP32 | Politics IIA | P703 | Political Sociology |
| | AP42 | Politics IIB | P704 | Third World Political Economy |
| | AP03 | Politics IIIA | P705 | Chinese Politics |
| | AP13 | Politics IIIB | P706 | Marxism-Leninism |
| | | | P709 | International Politics: The Cold War, Australia and Asia |
| | | | P711 | History of Political Thought |
| | | | P712 | Liberal Democracy in Australia |
| | | | P713 | Modern Political Thought |
| | | P714 | State, Society and Political Regimes: a Comparative Political Economy | |
| Psychology | AY23 | Psychology III | Group A: Personality and Social Psychology | |
| | AY1H | Psychology IIH(A) | Y780 | Personality |
| | AY2H | Psychology IIH(B) | Y782 | Social Psychology |
| | | | Y783 | The Philosophy and Psychology of Consciousness |
| | | | Group B: Human Performance | |
| | | | Y784 | Human Decision Processes |
| | | | Y785 | Applied Experimental Psychology |
| | | | Y786 | Environmental Psychology |
| | | | Group C: Comparative, Motivational and Physiological Psychology | |
| | | | Y787 | Physiological Psychology |
| | | | Y788 | Motivation |
| | | | Y789 | Animal Behaviour |
| | | | Compulsory Unit | |
| | | | Y791 | Methodology, Practical Work and Statistics |
| | | | | |
| Pure Mathematics | QM03 | Pure Mathematics III | M321 | Applicable Analysis |
| | QM13 | Pure Mathematics IIIA | M322 | Analysis |
| | QM83 | Pure Mathematics IIIM | M323 | Complex Analysis |
| | | | M324 | Integration |
| | | | M331 | Groups |
| | | | M332 | Rings and Modules |
| | | | M333 | Geometry |
| | | | M334 | Number Theory |
| | | | M342 | Logic |
| | | | M343 | History of Mathematics |
| Social Biology (Science) | Certain IIIM subjects with permission of the Head/Chairman of department concerned. | | J333 | Social Biology |

TABLES

TABLE OF UNITISED SUBJECTS
AND SUBJECTS WITH OPTIONS

| Department | Syllabus Number | Subject | Unit Code | Title of Unit or Option |
|------------|-----------------|------------------------------------|--|--|
| Statistics | QT03 | Mathematical Statistics III | T301 | Probability and Distribution Theory |
| | | | T302 | Statistical Inference I |
| | | | T303 | Statistical Inference II |
| | | | T304 | Linear Models I |
| | | | T305 | Linear Models II |
| | | | T306 | Special Topics |
| Zoology | SZ03 SZ83 | Zoology III Zoology IIIM } } | Z301 | Ecology |
| | | | Z302 | Comparative Biochemistry and Pollution |
| | | Z303 | Comparative and Environmental Physiology | |
| | | Z304 | Parasites and Parasitism | |
| | | Z305 | Systematics and Biogeography | |
| | | Z306 | Freshwater Ecology | |

Code Lists for Enrolment Purposes

(Statistical Data Codes)

CODE I—COURSE CODES

Agricultural Science

WB Bachelor of Agricultural Science (B.Ag.Sc.)
WH Honours Agricultural Science (B.Ag.Sc.Hons.)
WM Master of Agricultural Science (M.Ag.Sc.)
WP Ph.D.—Agricultural Science
WA Miscellaneous Agricultural Science
WV Visiting Student—Agricultural Science

Architecture

RB Bachelor of Architecture (B.Arch.) (old course)
RN Bachelor of Architectural Studies (B.Arch.St.)
RR Bachelor of Architecture (B.Arch.) (new course)
RH Honours Architecture (B.Arch.Hons.)
RT Master of Urban and Regional Planning
(M.U.R.P.)
RM Master of Architecture (M.Arch.)
RP Ph.D.—Architecture
RA Miscellaneous Architecture
RV Visiting Student—Architecture

Arts

AB Bachelor of Arts (B.A.)
AH Honours Arts (B.A. Hons.)
AE Bachelor of Education (B.Ed.)
AX Diploma in Applied Psychology
(Dip.App.Psych.)
AG Diploma in Education (Dip.Ed.)
AZ Advanced Diploma in Education (Adv.Dip.Ed.)
AT Master of Education (M.Ed.)
AQ Master Qualifying—Arts
AM Master of Arts (M.A.)
AP Ph.D.—Arts
AD Doctor of Letters (D.Litt.)
AA Miscellaneous Arts
AV Visiting Student—Arts

Dentistry

DB Bachelor of Dental Surgery (B.D.S.)
DH Bachelor of Science in Dentistry (Honours
Degree) (B.Sc.Dent.)
DM Master of Dental Surgery (M.D.S.)
DP Ph.D.—Dentistry
DD Doctor of Dental Science (D.D.Sc.)
DA Miscellaneous Dentistry
DV Visiting Student—Dentistry

Economics

EB Bachelor of Economics (B.Ec.)
EH Honours Economics (B.Ec.Hons.)
EQ Master Qualifying—Economics
ET Master of Business Management (M.B.M.)
EM Master of Economics (M.Ec.)
EP Ph.D.—Economics
EA Miscellaneous Economics
EV Visiting Student—Economics

Engineering

NU Bachelor of Engineering (Chemical) (B.E.)
NN Bachelor of Engineering (Civil) (B.E.)
NO Bachelor of Engineering (Electrical) (B.E.)
NR Bachelor of Engineering (Mechanical) (B.E.)
NH Honours Engineering (B.E.Hons.) (all depts.)
NM Master of Engineering (M.E.)
NT Master of Engineering Science (M.Eng.Sc.)
NS Master of Applied Science (M.App.Sc.)
NP Ph.D.—Engineering
ND Doctor of Engineering
NA Miscellaneous Engineering
NV Visiting Student—Engineering

Environmental Studies

VG Diploma in Environmental Studies (Dip.Env.St.)
VT Master of Environmental Studies (M.Env.St.)
VP Ph.D.—Environmental Studies

Law

LB Bachelor of Laws (LL.B.)
LH Honours Law (LL.B.Hons.)
LT Master of Legal Studies (M.L.S.)
LM Master of Laws (LL.M.)
LP Ph.D.—Law
LD Doctor of Laws (LL.D.)
LA Miscellaneous Law
LV Visiting Student—Law

Mathematical Sciences

QB Bachelor of Science in the Faculty of
Mathematical Sciences (B.Sc.)
QH Honours Mathematical Sciences (B.Sc.Hons.)
QG Diploma in Computing Science (Dip.Comp.Sc.)
QM Master of Science in the Faculty of Mathematical
Sciences (M.Sc.)
QP Ph.D.—Mathematical Sciences
QD Doctor of Science in the Faculty of Mathematical
Sciences (D.Sc.)
QA Miscellaneous Mathematical Sciences
QV Visiting Students—Mathematical Sciences

Medicine

MB Bachelor of Medicine and Bachelor of Surgery
(M.B., B.S.)
MH Bachelor of Medical Science (Honours Degree)
(B.Med.Sc.)
MX Diploma in Psychotherapy
MM Master of Surgery (M.S.)
MP Ph.D.—Medicine
MD Doctor of Medicine (M.D.)
MA Miscellaneous Medicine
MV Visiting Student—Medicine

Music

UB Bachelor of Music (B.Mus.)
UH Honours Music (B.Mus.Hons.)
UM Master of Music (M.Mus.)
UP Ph.D.—Music
UD Doctor of Music (D.Mus.)
UA Miscellaneous Music
UV Visiting Student—Music

Science

SB Bachelor of Science in the Faculty of Science
(B.Sc.)
SH Honours Science (B.Sc.Hons.)
SM Master of Science in the Faculty of Science
(M.Sc.)
SP Ph.D.—Science
SD Doctor of Science in the Faculty of Science
(D.Sc.)
SA Miscellaneous Science
SV Visiting Student—Science

S.A.I.T. Students

VX Bachelor of Applied Science (B.App.Sc.)
—Physiotherapy
VY Bachelor of Applied Science (B.App.Sc.)
—Occupational Therapy

CODE 2—CONTACT DEPARTMENT CODES

Alphabetical List of Departments

Note: Higher Degree students should nominate the department in which they receive supervision. Other students should nominate the department in which they will spend most time.

Agricultural Science

WB Agricultural Biochemistry
WA Agronomy
WN Animal Physiology
WY Biometry
WE Entomology
WP Plant Pathology
WF Plant Pathology
WS Soil Science

Architecture

RA Architecture

Arts

AA Anthropology
AQ Asian Studies
AC Classics
AD Education
AE English
AF French
AJ Geography
AG German
AH History
AL Philosophy
AP Politics
AY Psychology

Dentistry

First year B.D.S. students should nominate a suitable contact department in the Faculty of Science. Other B.D.S. students should nominate the Dental School Office (code DD). Higher Degree and Honours students should nominate the department in which they are working.

DH Dental Health
DD Dental School office
DB Oral Biology
DP Oral Pathology and Oral Surgery
DR Restorative Dentistry

Economics

EC Commerce
EE Economics

Engineering

NH Chemical Engineering
NC Civil Engineering
NE Electrical Engineering
NM Mechanical Engineering

Environmental Studies

VV Environmental Studies

Law

LL Law

Mathematical Sciences

QN Applied Mathematics
QA Computing Science
QF Mathematical Physics
QM Pure Mathematics
QT Statistics

Medicine

First Year M.B., B.S. students should nominate a suitable contact department in the Faculty of Science. Other M.B., B.S. students should nominate the Medical School Office (code MD). Higher Degree and Honours students should nominate the department in which they are working.

MA Anatomy
MR Clinical and Experimental Pharmacology
MU Community Medicine
MD Medical School Office
MM Medicine
MO Obstetrics and Gynaecology
MC Paediatrics
MP Pathology
MH Psychiatry
MS Surgery

Music

UM Music/Elder Conservatorium
UB Centre for Aboriginal Studies

Science

SY Biochemistry
SB Botany
SE Economic Geology
SJ Genetics
SG Geology
SI Mawson Institute
SK Microbiology
SO Organic Chemistry
SC P and I Chemistry
SP Physics
SS Physiology
SZ Zoology

S.A.I.T. Students

TT Occupational Therapy
TT Physiotherapy

CODE 3—STATUS FOR UNIVERSITY ELECTIONS

1 Not a University graduate

2 A graduate of Adelaide University

3 A graduate (or its equivalent) of another University but not a graduate of Adelaide

Note: Students who have qualified for a degree but who have not yet had it conferred are NOT graduates for this purpose.

CODE 4—WHO PROVIDES YOUR ACCOMMODATION DURING TERM?

1 Parent(s)

2 Other relation(s) or guardian(s)

3 The University or an affiliated College of the University

4 Another institution (including armed forces, religious communities)

5 Yourself or a group (including rented accommodation)

6 Other (including boarding house)

9 Not known

CODE 5—TYPE OF ACCOMMODATION DURING TERM

1 House

2 Flat/unit

3 Affiliated College

4 Hall of Residence

5 Non-collegiate housing

6 Other institutional accommodation

7 Board and lodging

9 Not known

CODE LISTS FOR
ENROLMENT PURPOSES

TABLES

CODE 6—LOCATION OF HOME RESIDENCE ON FIRST ENROLLING AT THE UNIVERSITY OF ADELAIDE

If home residence was in Australia use the appropriate Australian postcode. If overseas, use one of the codes below.

| | | | |
|----------------|------------------------------------|---------------------------------|---|
| <i>Oceania</i> | | 0408 | Hong Kong |
| 0101 | Christmas Island | 0411 | India |
| 0102 | Cocos (Keeling) Island | 0413 | Malaysia |
| 0103 | Norfolk Island | 0415 | Singapore |
| 0120 | Papua New Guinea | 0417 | Sri Lanka |
| 0142 | Fiji | 0419 | Other Commonwealth Asia |
| 0144 | Nauru | 0424 | Israel |
| 0145 | New Zealand | 0429 | Other Middle East (excl. Africa) |
| 0146 | Solomon Islands | 0443 | Bangladesh |
| 0148 | Tonga | 0446 | Burma |
| 0149 | Other Commonwealth Pacific Islands | 0452 | China (People's Republic) |
| 0167 | Western Samoa | 0455 | Indonesia |
| 0169 | Other Pacific Islands | 0458 | Japan |
| | | 0459 | Kampuchea |
| | | 0464 | Korea (North or South) |
| <i>Africa</i> | | 0471 | Laos |
| 0201 | The Gambia | 0474 | Pakistan |
| 0206 | Ghana | 0477 | Philippines |
| 0211 | Kenya | 0480 | Taiwan |
| 0216 | Lesotho | 0483 | Thailand |
| 0221 | Malawi | 0486 | Turkey |
| 0226 | Mauritius | 0489 | Vietnam |
| 0231 | Nigeria | 0499 | Other Asia |
| 0236 | Republic of South Africa | | |
| 0246 | Tanzania, United Republic of | <i>Europe</i> | |
| 0251 | Uganda | 0501 | United Kingdom and Ireland (including Northern Ireland and Republic of Ireland) |
| 0256 | Zambia | 0535 | France |
| 0241 | Zimbabwe | 0538 | Germany, Federal Republic of |
| 0269 | Other Commonwealth Africa | 0546 | Italy |
| 0299 | Other Africa | 0552 | Malta |
| | | 0554 | The Netherlands |
| <i>America</i> | | 0585 | U.S.S.R. |
| 0303 | Canada | 0590 | The Nordic Countries (Denmark, Finland, Norway and Sweden) |
| 0313 | Mexico | 0599 | Other Europe |
| 0317 | U.S.A. | | |
| 0321 | West Indies | <i>Not Elsewhere Classified</i> | |
| 0389 | South America | 0989 | Not elsewhere classified |
| 0399 | Other America | | |
| | | <i>Not stated</i> | |
| <i>Asia</i> | | 0402 | Brunei |
| 0402 | Brunei | 0999 | Not stated |
| 0405 | Cyprus | | |

CODE 7—HIGHEST QUALIFICATION ATTEMPTED

| <i>Secondary</i> | | <i>Tertiary</i> | |
|-----------------------------|-------------------------------------|-----------------|-------------------------------------|
| 51 | Matriculation Standard | 01 | Doctorate |
| 52 | Adult or concessional matriculation | 03 | Masters |
| 53 | Special Entry | | —University |
| 59 | Other | 04 | —CAE |
| | | 06 | Graduate Diploma—University |
| <i>Other Post-Secondary</i> | | 07 | —CAE |
| 41 | Technical College qualification | 11 | Bachelor (Ord. or Hons.)—University |
| 49 | Other | 12 | —CAE |
| | | 17 | Other |
| | | 18 | —University |
| | | 19 | —CAE |
| | | 99 | Not elsewhere classified |

CODE 8—LOCATION OF INSTITUTION WHERE HIGHEST QUALIFICATION ATTEMPTED

| | | | |
|----|--|----|-----------|
| 01 | Adelaide University | 15 | W.A. |
| 02 | Flinders University | 16 | Tasmania |
| 03 | C.A.E. or other tertiary institution in S.A. | 17 | N.T. |
| 11 | N.S.W. | 18 | A.C.T. |
| 12 | Victoria | 80 | Overseas |
| 13 | Queensland | 99 | Not known |
| 14 | School in S.A. | | |

CODE 9—FINANCIAL ASSISTANCE

| | | | |
|----|--------------------------------|----|--------------------------------|
| 97 | Self-supported | 21 | State Govt.—Postgraduate award |
| 98 | Supported by parents | 22 | —Cadetship |
| 01 | Aust. Govt.—Postgraduate award | 23 | —Teacher Training |
| 02 | —Cadetship | 24 | —Other |
| 03 | —Colombo Plan | 41 | University—Postgraduate award |
| 04 | —Teacher Training | 42 | —Other |
| 05 | —T.E.A.S. | 61 | Overseas award |
| 06 | —Other | 71 | Other assistance |
| | | 99 | Not known |

TABLES

CODE LISTS FOR
ENROLMENT PURPOSES

CODE 10—OCCUPATION

| | | | |
|----|--|----|--|
| 01 | Professional, technical and related workers | 07 | Workers in transport and communication not elsewhere classified |
| 02 | Administrative, executive and managerial workers | 08 | Tradesmen, production-process workers and labourers not elsewhere classified |
| 03 | Clerical workers | 09 | Service, sport and recreation workers not elsewhere classified |
| 04 | Sales workers | 10 | Members of armed services |
| 05 | Farmers, fishermen, hunters and related workers | 99 | Miscellaneous |
| 06 | Miners, quarrymen and related workers | | |

CODE 11—CATEGORY OF EMPLOYER

| | | | |
|---|--|---|----------------------|
| 1 | Federal Government | 6 | Non-profit body |
| 2 | State or Local Government | 7 | Private organisation |
| 3 | Adelaide University | 8 | Self-employed |
| 4 | Other Tertiary Educational Institution | 9 | Other |
| 5 | Other public organisation | | |

CODE 12—CONCURRENT ATTENDANCE

| | | | |
|-----|--|-----|---|
| 013 | Flinders University | 236 | Salisbury College of Advanced Education |
| 239 | South Australian Institute of Technology | 269 | Sturt College of Advanced Education |
| 104 | Adelaide College of the Arts and Education | 399 | Another institution in S.A. |
| 170 | Hartley College of Advanced Education | 499 | An interstate tertiary institution |
| 230 | Roseworthy Agricultural College | 599 | An overseas tertiary institution |