<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>5</td>
</tr>
<tr>
<td>Calendar of Dates</td>
<td>6</td>
</tr>
<tr>
<td>Staff List</td>
<td>8</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td>Admissions Office</td>
<td>10</td>
</tr>
<tr>
<td>Requirements for Admission</td>
<td>11</td>
</tr>
<tr>
<td>Matriculation Requirements</td>
<td>12</td>
</tr>
<tr>
<td>Enrolment Procedure</td>
<td>18</td>
</tr>
<tr>
<td>University Union Card</td>
<td>19</td>
</tr>
<tr>
<td><strong>Course Fees</strong></td>
<td></td>
</tr>
<tr>
<td>Undergraduate</td>
<td>21</td>
</tr>
<tr>
<td>Late</td>
<td>23</td>
</tr>
<tr>
<td>Withdrawal from Course</td>
<td>23</td>
</tr>
<tr>
<td>Payment</td>
<td>24</td>
</tr>
<tr>
<td><strong>Rules Relating to Students</strong></td>
<td></td>
</tr>
<tr>
<td>Course Transfers and Advanced Standing Claims</td>
<td>26</td>
</tr>
<tr>
<td>Annual Examinations</td>
<td>27</td>
</tr>
<tr>
<td>Restriction upon Students Re-enrolling</td>
<td>28</td>
</tr>
<tr>
<td>Re-admission after exclusion</td>
<td>30</td>
</tr>
<tr>
<td><strong>Student Services</strong></td>
<td></td>
</tr>
<tr>
<td>The Library</td>
<td>32</td>
</tr>
<tr>
<td>The University Union</td>
<td>32</td>
</tr>
<tr>
<td>Student Accommodation</td>
<td>32</td>
</tr>
<tr>
<td>Student Counselling and Research Unit</td>
<td>33</td>
</tr>
<tr>
<td>Student Amenities Service</td>
<td>33</td>
</tr>
<tr>
<td>Student Employment Service</td>
<td>33</td>
</tr>
<tr>
<td>Student Health Service</td>
<td>33</td>
</tr>
</tbody>
</table>
SCHOLARSHIPS, BURSARIES AND CADETSHIPS 34

FACULTY OF SCIENCE COURSES
Common First Year 38
Honours Courses 40
Post-graduate Courses 41

GENERAL STUDIES COURSES 42

THE SCIENCE COURSE
Regulations 53
Recommended Patterns of Subjects 61
Requirements for Honours 65

SCHOOL OF APPLIED PSYCHOLOGY 68

SCHOOL OF BIOLOGICAL SCIENCES 76

SCHOOL OF CHEMISTRY 79

PHYSIOLOGY FOR STUDENTS IN THE SCIENCE COURSE 95

GEOLOGY FOR STUDENTS IN THE SCIENCE COURSE 97

SCHOOL OF MATHEMATICS 103

SCHOOL OF PHYSICS 114

DEPARTMENT OF OPTOMETRY 117

GEOGRAPHY FOR STUDENTS IN THE SCIENCE COURSE 122
FOREWORD

During the next few years, a great influx of new students is expected in this and the other universities in Australia, and the Faculty of Science will be much involved with the new problems and opportunities which will accompany this growth. As members of this Faculty it is well to examine the roles and functions of its Schools and the part which you may play in its development.

The primary role of the Faculty is to provide a series of strongpoints in which the basic scientific disciplines, both physical and biological, can be conserved and developed, and from which should flow lucid explanation of what is known and challenging ideas on what might be. The teaching of science and the extension of its boundaries by research and scholarship are inseparably linked in a university and as students in this Faculty you may hope to be infected with an enthusiasm for new knowledge and an appetite for some participation in the widening of understanding.

The Faculty has another very important role in its participation in the training of those students who are members of the “science-based” faculties—Engineering, Applied Science and Medicine. You will rub shoulders with many whose interests are directed towards specific areas of application of science and whose different views can widen and enrich your own.

The range of knowledge for which your Faculty is primarily responsible is large and expanding, and while you will of necessity concentrate your studies in particular areas, the courses available to you allow of many combinations and are designed to provide you not only with some degree of specialized competence but an appreciation of the unity of scientific knowledge. You have a rich and exciting diversity of courses from which to choose and we hope that you will emerge as graduates flexible in approach and abundant in imagination.

B. J. RALPH

September, 1966

Dean
CALENDAR OF DATES FOR 1967

Term 1 .................. March 6 to May 20
Term 2 .................. June 5 to August 12
Term 3 ................. September 4 to November 4

JANUARY—
Monday 23 .......... Last day for acceptance of applications to enrol by new students and students repeating first year.
Tuesday 31 to Saturday Feb. 11 . Deferred examinations.

FEBRUARY—
Monday 20 .......... Enrolment Week commences for new First Year students.
Monday 27 .......... Enrolment Week commences for students re-enrolling.

MARCH—
Monday 6 .......... First Term lectures commence.
Friday 17 .......... Last day for enrolment of new students.
Friday 24 to
Monday 27 .......... Easter.
Friday 31 .......... Last day for later year enrolments.

APRIL—

MAY—
Saturday 20 .......... First Term ends.

JUNE—
Monday 5 .......... Second Term commences.
Monday 12 .......... Queen's Birthday—Public Holiday.
Friday 30 .......... Last day for acceptance of applications for re-admission after exclusion under rules governing re-enrolment.
JULY—
Tuesday 4 .......... Foundation Day.
Friday 14 .......... Last day for acceptance of applications for examinations.

AUGUST—
Saturday 12 .......... Second Term ends.

SEPTEMBER—
Monday 4 .......... Third Term commences.

OCTOBER—
Monday 2 .......... Six Hour Day—Public Holiday.

NOVEMBER—
Saturday 4 .......... Third Term lectures cease.
Saturday 11 .......... Examinations commence (30-week courses).

1968

Term 1 .. March 4 to May 18
Term 2 ................ June 3 to August 10
Term 3 .......... September 2 to November 2

JANUARY—
Tuesday 30 to Saturday Feb. 10 .. Deferred examinations.

FEBRUARY—
Monday 19 .......... Enrolment Week commences for new First Year students.
Monday 26 .......... Enrolment Week commences for students re-enrolling.

MARCH—
Monday 4 .......... First Term lectures commence.
SCHOOL AND ADMINISTRATIVE OFFICERS 1967

Dean—Professor B. J. F. Ralph.
Graduate Assistant to the Dean—Miss E. Ayre, BA Syd.

SCHOOL OF APPLIED PSYCHOLOGY
Professor of Applied Psychology and Head of School
J. F. Clark, MA BSc DipEd Syd., PhD Lond.
Professor of Applied Psychology
A. G. Hammer, MA Syd.
Associate Professor (Clinical Psychology)
R. T. Martin, BA DipPubAdmin Syd.
Executive Assistant to Head of School
A. K. Olley, BA Syd.

SCHOOL OF BIOLOGICAL SCIENCES
Professor of Botany and Head of School
H. N. Barber, MA ScD Cantab., PhD Lond., FRS, FAA
Professor of Biochemistry
B. J. F. Ralph, BSc Tas., PhD Liv., FRACI
Professor of Biochemistry
E. O. Thompson, MSc DipEd Syd., PhD Cantab., ARACI
Professor of Microbiology
DScAgr Syd., DipBact Lond., FAIAS
Professor of Zoology
G. B. Sharman, BSc Tas., DSc W.Aust.

SCHOOL OF CHEMISTRY
Professor of Inorganic Chemistry and Head of School
D. P. Mellor, DSc Tas., FRACI
Professor of Organic Chemistry and Deputy Head of School
S. J. Angyal, PhD Bud., DSc N.S.W., FAA, FRACI
Personal Professor (Organic Chemistry)
G. W. K. Cavill, MSc Syd., PhD DSc Liv., FRIC, FRACI
Head, Analytical Chemistry
A. Bryson, BAppSc MSc Qld., PhD N.S.W., FRACI
Associate Professor and Head, Applied Organic Chemistry
E. R. Cole, MSc Syd., PhD N.S.W., FRACI
Associate Professor and Head, Inorganic Chemistry  
C. M. Harris, BSc PhD N.S.W., ASTC, ARACI

Acting Head, Nuclear and Radiation Chemistry  
D. J. Carswell, MSc PhD DipEd Syd., FRACI

Associate Professor and Head, Physical Chemistry  
R. L. Werner, MSc PhD N.S.W., ASTC, ARACI

Director of First Year Studies  
Associate Professor E. S. Swinbourne, BSc PhD N.S.W., ASTC, ARACI

Executive Assistant to Head of School  
W. J. Dunstan, MSc Syd., ARACI

Graduate Assistant  
Mrs. N. Merry, BA Syd.

SCHOOL OF MATHEMATICS

Professor of Mathematics and Head of School  
G. Bosson, MSc Lond.

Professor of Applied Mathematics  
J. M. Blatt, BA Cinc., PhD Corn. and Prin., FAA, FAPS

Professor of Pure Mathematics  
G. Szekeres, DiplChemEng Bud., FAA

Professor of Pure Mathematics  
G. M. Kelly, BSc Syd., BA PhD Cantab.

Associate Professor of Mathematical Statistics  
J. B. Douglas, MA BSc DipEd Melb.

Associate Professor  
S. Lipton, MSc Liv.

Director of First Year Studies  
Vacant

SCHOOL OF PHYSICS

Professor of Applied Physics and Head of School  
C. J. Milner, MA PhD Cantab., FInstP, FAIP

Professor of Physics  
E. P. George, BSc PhD Lond., DSc N.S.W., FInstP

Associate Professors (Physics)  
D. Haneman, MSc Syd., PhD R'dg., MSocSigmaXi(U.S.A.), Grad InstP, GradAIP  
J. F. McConnell, MSc Syd., PhD N.S.W., AInstP, AAIP

Associate Professor (Optometry)  
J. Lederer, BSc Syd., MSc N.S.W., ASTC, FIO

Executive Assistant to Head of School  
R. E. Lishmund, BSc PhD St. And., AInstP, AAIP
ADMISSIONS OFFICE

The Admissions Office provides intending students (both local and overseas) with information regarding courses, admission requirements, scholarships and enrolment.

Applications for special admission or admission with advanced standing to courses should be made at the Admissions Office. Local residents should apply prior to 31st December of the year preceding that in which admission is sought. Where applicable documentary evidence should be tendered with the application, and copies should accompany original documents, as this will allow the immediate return of the latter. Students applying from overseas for admission to undergraduate courses and to those post-graduate courses which require completion of formal lecture courses should lodge their applications prior to 1st October of the year preceding that in which admission is sought.

Applications for admission to undergraduate courses from students who do not satisfy the requirements for admission (see section on “Requirements for Admission”), from students seeking admission with advanced standing, and from students who have had a record of failure at another university, are referred by the Admissions Office to the Admissions Committee of the Professorial Board.

Students seeking to register as higher degree candidates should discuss their proposals initially with the Head of the School in which they wish to register. An application is then lodged on a standard form and the Admissions Office, after obtaining a recommendation from the Head of the School, refers the application to the appropriate Faculty or Board of Studies Higher Degree Committee.

The Admissions Office also receives applications from students who wish to transfer from one course to another, or seek any concession in relation to a course in which they are enrolled. These applications should, wherever possible, be lodged before the commencement of the academic year in which the concession is to apply.
Students wishing to resume their studies after an absence of twelve months or more are required to apply to the Admissions Office for permission to re-enrol. It should be noted that, unless permission has been given to defer their studies for a specified period which will not normally exceed twelve months, students will be required to re-enter the course under the regulations prevailing at the time of resumption. This condition will apply also to students who have been re-admitted to a course after exclusion under the rules restricting students re-enrolling.

The Admissions Office operates an Enrolment Bureau for undergraduate students enrolling in the University for the first time. Details of the procedure to be followed by such students will be published in the preamble to the Leaving Certificate Examination results, or may be obtained on application to the Admissions Office.

The Admissions Office is located on the upper campus in the Chancellery, telephone 663-0351. Office hours are from 9 a.m. to 1 p.m., and 1.45 p.m. to 5 p.m., Monday to Friday. An evening service is provided during the enrolment period.

**REQUIREMENTS FOR ADMISSION**

Candidates may qualify for entry to undergraduate courses by complying with the matriculation requirements set out below at the Leaving Certificate Examination held by the Department of Education or the Matriculation Examination conducted by the University of Sydney.

It should be noted that with the introduction of the Higher School Certificate Examination in November, 1967, the matriculation requirements have been amended. The amended requirements, which will be applicable from 1st January, 1968, will be found below.

The Leaving Certificate Examination is usually held in November, and entries must be lodged with the Department of Education during August.
The Matriculation Examination is held in February, and applications must be lodged at the University of Sydney during the first ten days of January, except by candidates who have taken the Leaving Certificate Examination in the previous November. The closing date for such candidates will be announced when the Leaving Certificate results are published.

Matriculation Requirements in terms of the Leaving Certificate and the University of Sydney Matriculation
(To operate from 1st January, 1961)

1. (i) A candidate for any first degree of the University must satisfy the conditions for admission set out hereunder before entering upon the prescribed course for a degree. Compliance with these conditions does not in itself entitle a student to enter upon a course.

(ii) A candidate who has satisfactorily met the conditions for admission and has been accepted by the University shall be classed as a "matriculated student" of the University after enrolment.

(iii) A person who has satisfactorily met the conditions for admission may on the payment of the prescribed matriculation fee be provided with a statement to that effect.

2. (i) For the purpose of matriculation approved subjects* are grouped as follows:

A. English

B. Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch, Geography, Ancient History, Modern History, Economics.

C. Mathematics I, Mathematics II, Mathematics III.


E. Accountancy, Art, Descriptive Geometry and Drawing, Music, Theory and Practice of Music.

* It should be noted that certain subjects taken for the Leaving Certificate are not approved subjects for admission to the University of New South Wales.
(ii) In order to satisfy the conditions for admission to undergraduate courses leading to a degree, candidates must pass the New South Wales Leaving Certificate Examination conducted by the Department of Education, or the University of Sydney Matriculation Examination in at least five approved subjects at the one examination;

provided that:—

I. either—

(a) the five subjects include English and at least one subject from each of Groups B and C, but do not include more than one subject from Group E, except that candidates may qualify for admission to the Faculty of Arts only, by passing in one subject from Group D in lieu of the subject from Group C;

or

(b) the five subjects include English, and at least one subject from either Group B or Group C, but do not include more than one subject from Group E, and provided further that the five passes include either one first class Honours and two A's or two Honours of which one is first class:

and:—

II. (a) neither Physics nor Chemistry is offered with the combined subjects Physics and Chemistry;
(b) neither Botany nor Zoology is offered with Biology;
(c) neither Botany nor Zoology nor Biology is offered with Physiology;
(d) neither Mathematics I nor Mathematics II nor Mathematics III is offered with General Mathematics;
(e) neither Mathematics I nor Mathematics II is offered with Mathematics III;
(f) Mathematics I or Mathematics II may be counted as an approved subject only if the candidate presented himself for examination in both Mathematics I and Mathematics II;
(g) Theory and Practice of Music is accepted only in cases where the pass was obtained at an examination in 1946 or subsequent years;

(h) Ancient History is accepted only in cases where the pass was obtained at an examination held in 1945 or subsequent years; and further, both Modern History and Ancient History may be offered as qualifying subjects at the examinations held at the end of 1951 and subsequent years;

(i) Agriculture is accepted only in cases where the pass was obtained at an examination held in 1945 or subsequent years;

(j) Economics is accepted only in cases where the pass was obtained at an examination held in 1947 or subsequent years;

(k) Descriptive Geometry and Drawing is accepted only in cases where the pass was obtained at an examination held in 1954 or subsequent years.

(iii) Candidates who have satisfactorily met the matriculation requirements of the University of Sydney, but who have not obtained the requisite pass in Mathematics where prescribed for entrance to the University of New South Wales, will be permitted to complete their qualifications to enter the University of New South Wales by passing only in a Mathematics subject from Group C, at a subsequent Leaving Certificate or University of Sydney Matriculation Examination.

Revised Matriculation Requirements in terms of the Higher School Certificate Examination

(To operate from 1st January, 1968)

The following are the revised matriculation requirements of the University of New South Wales consequent upon the introduction of the Higher School Certificate examination which will be held for the first time in 1967.

1. (i) A candidate for any first degree of the University must satisfy the conditions for admission set out hereunder before entering upon the prescribed course for a degree. Compliance with these conditions does not in itself entitle a student to enter upon a course.
(ii) A candidate who has satisfactorily met the conditions for admission and has been accepted by the University shall be classed as a "matriculated student" of the University after enrolment.

(iii) A person who has satisfactorily met the conditions for admission may be provided with a statement to that effect on the payment of the prescribed matriculation fee.

2. Except as elsewhere provided a candidate before being admitted to matriculation shall have passed at the required standard the Higher School Certificate Examination in New South Wales in at least five subjects in accordance with the following conditions:

(a) The subjects shall be chosen from the following subjects taken at the first, second or third level, in the Higher School Certificate Examination:

A. English.

B. (i) French, German, Greek, Latin.

(ii) Ancient History, Art, Economics, Geography, Modern History, Music, Bahasa Indonesia, Chinese, Dutch, Hebrew, Italian, Japanese, Russian, Spanish or such other language as may, in the case of any particular candidate, be approved by the Professorial Board.

C. (i) Mathematics.

(ii) Agriculture, Science.


(b) The subjects shall include:—

(i) English,

(ii) four subjects at the first or second level, and,

(iii) one subject chosen from each of the Groups B and C and of these two subjects at least one must be from Section (i) of either Group B or Group C at the first or second level.

(c) The subjects shall NOT include both Art and Music.
3. Mathematics and Science both passed as full courses together shall, for the purpose of matriculation, be counted as three subjects, but otherwise each shall count as one subject.

4. The qualification for matriculation must be obtained at one examination.

5. In addition to the above requirements a candidate for admission to any particular faculty, course or subject shall satisfy the special requirements, if any, pertaining to that faculty, course or subject as set out in the following schedule. Where these additional requirements are not satisfied at the same examination as the requirements listed in paragraph 2 they may be met at a separate examination.

6. (a) Notwithstanding the provisions of Clauses 2, 3 and 5 of these requirements, any candidate who has taken the Higher School Certificate Examination in the subject of English and no fewer than any four other subjects named in Clause 2, at any level, may be admitted to matriculation provided he has reached a standard determined from time to time by the Professorial Board.

(b) Mathematics and Science both taken as full courses together shall, for the purpose of this clause, be counted as three subjects.

(c) A candidate qualifying for matriculation under this clause may also be admitted to a particular faculty, course or subject provided:

(i) he satisfies the special requirements pertaining to that faculty, course or subject as set out in the following schedule, or

(ii) the Professorial Board deems that his programme of studies for, and his performance at, the Higher School Certificate Examination constitute an adequate preparation for his admission to the particular faculty, course or subject.

Additional Faculty, Course and Subject Requirements

(a) Faculty Requirements

*Applied Science, Medicine, Engineering, Science*

Passes in *Mathematics* and *Science* at the *first* or *second* level full course.
Architecture
Passes in Mathematics at the first or second level full course and in Science at the first or second level full course or second level short course provided that the Physics option has been taken in the short course.

Commerce
Passes in English at the first or second level and Mathematics at the first or second level full course or second level short course.

Arts
Pass in English at the first or second level.

(b) Course Requirements
Industrial Arts (B.Sc.), Wool Technology (B.Sc.) (Education option)
Passes in Science at the first or second level full course and in Mathematics at the first or second level full or short course provided that a student electing to include the subject Mathematics I in his University course shall have passed Mathematics at the first or second level full course.

(c) Subject Requirements
French I
Pass in French at the first or second level.

German I
Pass in German at the first or second level or pass in Introductory German.

Introductory German, Introductory Spanish or Preliminary Italian
Pass in any other foreign language at the first or second level.

Economics II or Economics III
Passes in English at the first or second level and Mathematics at the first or second level full course or second level short course.

Mathematics I
Pass in Mathematics at the first or second level full course.

Geology I
Pass in Science at the first or second level full course.

Chemistry I, Physics I or General Biology
Passes in Mathematics and Science at the first or second level full course.
ENROLMENT PROCEDURE FOR UNDERGRADUATE COURSES

First Enrolments—Application for enrolment in first year must wherever possible be made in person to the Student Enrolment Bureau, Unisearch House, 221 Anzac Parade, Kensington (across from the main University campus), as soon as the results of the Leaving Certificate Examination are available, but in any event not later than 23rd January.

Country residents and metropolitan students who are unable to attend in person and who wish to enrol with the University should write to the Registrar, P.O. Box 1, Kensington, specifying the course in which they wish to enrol and requesting a form on which to make their preliminary application. This form must be returned not later than 23rd January.

In 1967, in all faculties except Medicine where a quota will be necessary, all properly qualified candidates for enrolment will, it is hoped, be accepted. However, should enrolment estimates be exceeded or staff shortages become acute, restrictions may have to be imposed in other faculties. Early application, therefore, is essential.

New students complete their enrolment at a specified appointment time in the second week before the commencement of First Term. Fees must be paid on the day of the appointment. However, in special circumstances and provided class places are still available, students may be accepted for enrolment after the prescribed week subject to the payment of a late fee.

Applicants for enrolment with advanced standing or applicants relying on overseas examinations for matriculation should lodge an application with the Admissions Office prior to 1st October of the year preceding that in which admission is sought.

First Year Repeats—First Year students who fail all subjects at the annual examinations and who are not granted any deferred examinations must apply for re-enrolment to the Student Enrolment Bureau at the time set out above for First Enrolments. Other first year repeat students follow the procedure set out below for Later Year Enrolments.

Complete details of the enrolment requirements are contained in the booklet “Enrolment Procedure for New Students”, which may be obtained at the Enrolment Bureau when making application to enrol.
Later Year Enrolments—All students enrolling other than for the first time should do so through the appropriate school. Full-time students, other than those in the Science course, must attend at the time and place during Enrolment Week as set out in the booklet published each year, “Enrolment Procedure for Students Re-enrolling”. Enrolment forms for these students will be prepared and available at the enrolment centre.

All full-time and part-time students in the Applied Chemistry course are required to complete an enrolment form in the last fortnight of third term. The forms may be obtained from the office of the School of Chemistry (Mr. A. Funnell). An appointment will then be made to complete enrolment in accordance with the special arrangements made by the school. These arrangements are published in the booklet, “Enrolment Procedure for Later Year Students”.

A late fee of $5 will be incurred by students failing to enrol during Enrolment Week.

Miscellaneous Subject Enrolments—Students may be permitted to enrol for miscellaneous subjects (i.e., as students not proceeding to a degree or diploma) provided the Head of the School offering the subject considers it will be of benefit to the student and there is accommodation available. Under no circumstances will subjects taken in this way count towards a degree or diploma.

Students who have completed the final examinations but have a thesis still outstanding are required to enrol for the period necessary to complete the thesis and to pay the requisite fees.

Course details must be completed during the prescribed Enrolment Week. For details of fee requirements, including late fee provisions, see under Fees.

Final Dates for Enrolment—No enrolments will be accepted from new students after the end of the second week of term (17th March, 1967) except with the express approval of the Registrar and the Head of the School concerned; no later year enrolments will be accepted after 31st March without the express approval of the Registrar which will be given in exceptional circumstances only.

University Union Card

All students other than miscellaneous students are issued with a University Union membership card. This card must be carried during attendance at the University and shown on request.
The number appearing on the front of the card in the space at the top right-hand corner is the student registration number used in the University's records. This number should be quoted in all correspondence.

The card must be presented when borrowing from the University libraries, when applying for travel concessions and when notifying a change of address. It must also be presented when paying fees on re-enrolment each year when it will be made valid for the year and returned. Failure to present the card could result in some inconvenience in completing re-enrolment.

A student who loses a Union card must notify the University Union as soon as possible.

New students will be issued with University Union cards by mail to their term address as soon as possible after fee payment. In the meantime, the fees receipt form should be carried during attendance at the University and shown on request. If the Union card is not received within three weeks of fee payment the University Union should be notified.
FEES*

Fees for Undergraduate Courses

Where course fees are assessed on the basis of term hours of attendance the hours for each subject for purposes of fee assessment shall be those prescribed in the Calendar, irrespective of any variation from the prescribed hours which may be necessary in conducting the subject.

For the purpose of fee determination for courses in the Faculty of Science assessment is on a term basis. A full-time course fee will be charged for any term where more than 15 hours' per week instruction, etc., is involved.

(i) Full-time Course Fee (more than 15 hours' attendance per week)—$96 per term.
(ii) Part-time Course Fee (over six hours' and up to 15 hours' attendance per week)—$48 per term.
(iii) Part-time Course Fee (six hours' or less attendance per week)—$24 per term.
(iv) Course Continuation Fee—A fee of $20 per annum (no term payment) is payable by:
   (a) Students who have once been enrolled for a thesis and have only that requirement outstanding; OR
   (b) Students given special permission to take annual examinations without attendance at the University. (Students in this category are not required to pay the subscriptions to the University Union, the Students' Union, the Sports Association and the Library Fee).

Miscellaneous Subjects

Undergraduate subjects taken as "miscellaneous subjects" (i.e., not for a degree or diploma) or to qualify for registration as a candidate for a higher degree are assessed on an hourly basis in accordance with the schedule above.

* Fees quoted are current at time of publication and may be altered by Council without notice.
Students given approval to enrol in a miscellaneous subject or subjects in addition to being enrolled in a course are assessed according to the total hours of attendance as if the additional subject(s) formed part of the course.

**Other Fees**

In addition to the course fees set out above all registered undergraduates will be required to pay—

- Matriculation Fee—$6—payable at the beginning of first year.
- Library Fee—annual fee—$10.

**Student Activities Fees**

- University Union*—$12—annual subscription.
- Sports Association*—$2—annual subscription.
- Students' Union*—$4—annual subscription.
- Miscellaneous—$10—annual fee.

Total—$28.

Graduation or Diploma Fee—$6—payable at the completion of the course.

Depending on the course being taken, students may also be required to pay—

- Applied Psychology Kit Hiring Charge—$2 per kit. Additional payment for breakages and losses in excess of $1.
- Biochemistry Kit Hiring Charge—$4 per kit. Additional charge for breakages and losses in excess of $1 may be required.
- Chemistry Kit Hiring Charge—$4 per kit. Additional charge for breakages and losses in excess of $1 may be required.
- Excursion Fee—$2 per subject (biology, botany, zoology, entomology).†

**Special Examination Fees**

- Deferred examination—$4 for each subject.
- Examinations conducted under special circumstances—$6 for each subject.
- Review of examination result—$6 for each subject.

* Life members of these bodies are exempt from the appropriate fee or fees.

† Students in the original Applied Biology degree course pay an excursion fee of $1 per subject for botany, zoology and entomology.
Late Fees

First Enrolments

Fees paid on the late enrolment session and before the commencement of term $5
Fees paid during the first and second weeks of term $10
Fees paid after the commencement of the third week of term with the express approval of the Registrar and Head of the School concerned $20

Re-Enrolments

First Term

Failure to attend enrolment centre during enrolment week $5
Fees paid after the commencement of the third week of term to 31st March $10
Fees paid after 31st March where accepted with the express approval of the Registrar $20

Second and Third Terms

Fees paid in third and fourth weeks of term $10
Fees paid thereafter $20
Late lodgement of Application for Admission to Examinations (late applications will be accepted for three weeks only after the prescribed dates) $4

Withdrawal from Course

Students withdrawing from a course are required to notify the Registrar in writing. Fees for the course accrue until a written notification is received.

Where notice of withdrawal from a course is received by the Registrar before the first day of First Term a refund of all fees paid other than the matriculation fee will be made.

Where a student terminates for acceptable reasons a course of study before half a term has elapsed, one half of the term's fee may be refunded. Where a student terminates a course of study after half a term has elapsed, no refund may be made in respect of that term's fees.

The Library fee is an annual fee and is not refundable where notice of withdrawal is given after the commencement of First Term.
On notice of withdrawal a partial refund of the Student Activities Fees is made on the following basis:

University Union—$2 in respect of each half term.

University of New South Wales Students’ Union—where notice is given prior to the end of the fifth week of first term $2, thereafter no refund.

University of New South Wales Sports Association—where notice is given prior to 30th April a full refund is made, thereafter no refund.

Miscellaneous—where notice is given prior to 30th April $2, thereafter no refund.

PAYMENT OF FEES

Completion of Enrolment

All students are required to attend the appropriate enrolment centre during the prescribed enrolment period* for authorisation of course programme. Failure to do so will incur a late fee of $5.

First year students (including students repeating first year) must complete enrolment (including fee payment) before they are issued with class timetables or permitted to attend classes. A first year student who has been offered a place in a course to which entry is restricted and fails to complete enrolment (including fee payment) at the appointed time may lose the place allocated.

Fees should be paid during the prescribed enrolment period but will be accepted without incurring a late fee during the first two weeks of First Term. (For late fees see below.) No student is regarded as having completed an enrolment until fees have been paid. Fees will not be accepted (i.e., enrolment cannot be completed) from new students after the end of the second week of term (i.e., 17th March, 1967), and after 31st March from students who are re-enrolling, except with the express approval of the Registrar, which will be given in exceptional circumstances only.

Payment of Fees by Term

Students who are unable to pay their fees by the year may pay by the term, in which case they are required to pay First Term course fees and other fees for the year, within the first two weeks

* The enrolment periods for Sydney students are prescribed annually in the leaflets “Enrolment Procedure for New Students” and “Enrolment Procedure for Students Re-enrolling”.

of First Term. Students paying under this arrangement will receive accounts from the University for Second and Third Term fees. These fees must be paid within the first two weeks of each term.

**Assisted Students**

Scholarship holders or Sponsored Students who have not received an enrolment voucher or appropriate letter of authority from their sponsor at the time when they are enrolling should complete their enrolment paying their own fees. A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

**Extension of Time**

Any student who is unable to pay fees by the due date may apply in writing to the Registrar for an extension of time. Such application must give year or stage, whether full-time or part-time, and the course in which the applicant wishes to enrol, state clearly and fully the reasons why payment cannot be made and the extension sought, and must be lodged before the date on which a late fee becomes payable. Normally the maximum extension of time for the payment of fees is until 31st March for fees due in First Term and for one month from the date on which a late fee becomes payable in Second and Third Terms.

Where an extension of time is granted to a First Year student in First Term, such student is not permitted to attend classes until fees are paid, and if seeking to enrol in a restricted Faculty may risk losing the place allocated.

**Failure to Pay Fees**

Any student who is indebted to the University and who fails to make a satisfactory settlement of his indebtedness upon receipt of due notice ceases to be entitled to membership and privileges of the University. Such a student is not permitted to register for a further term, to attend classes or examinations, or to be granted any official credentials.

No student is eligible to attend the annual examinations in any subject where any portion of his course fees for the year is outstanding after the end of the fourth week of Third Term (29th September, 1967).

In very special cases the Registrar may grant exemption from the disqualification referred to in the two preceding paragraphs upon receipt of a written statement setting out all relevant circumstances.
RULES RELATING TO STUDENTS

COURSE TRANSFERS AND CLAIMS FOR ADVANCED STANDING

Students wishing to transfer from one course to another (including transfer from full-time to part-time study or vice versa) must make application to the Admissions Office as soon as possible and preferably before Enrolment Week. The Admissions Office will give each applicant an acknowledgement of his application to transfer.

Having made application to the Admissions Office students transferring are required to attend the School Enrolment Centre at the time set down for the year/stage of the new course in which they expect to enrol. They must present the letter granting approval of the transfer to the enrolling officer.

Students who have not received a letter granting approval to the transfer before the date on which they are required to enrol must present their acknowledgement to the enrolling officer who will decide whether to permit them to attend classes provisionally in the new course. Students who are permitted to attend classes provisionally should not pay fees until they have received their letter granting formal approval to transfer.

Students claiming advanced standing (exemptions from subjects) by reason of courses completed in other places should do so by applying to the Registrar on the appropriate form. Copies of the form may be obtained from the Admissions Office.

CHANGES IN COURSE PROGRAMMES AND WITHDRAWAL FROM SUBJECTS

Students seeking approval of a change in their course programme or seeking to withdraw from subjects must make application to the Head of the School responsible for the course on a form available from school offices. The Registrar will inform students of the decision. Approval of withdrawal from subjects is not automatic, each application being determined after con-
sidering the circumstances advanced as justifying withdrawal. It should be noted that a student is regarded as having failed in a subject if he enrolled in it in any year and did not pass the annual examination—not sitting for the examination is regarded as not passing the examination.

(Unless there are special circumstances, withdrawal from a subject after Term I will not be approved; students withdrawing after this date will therefore be held to have failed to satisfy the examiners.)

**RESUMPTION OF COURSES**

Students wishing to resume their studies after an absence of twelve months or more are required to apply to the Admissions Office for permission to re-enrol. Students re-enrolling in this way will normally be required to satisfy conditions pertaining to the course at the time of re-enrolment. This condition applies also to students who have been re-admitted to a course after exclusion under the rules restricting students re-enrolling.

**ANNUAL EXAMINATIONS**

The annual examinations take place in November-December for students in 30-week courses, and in September for students in 24-week courses. Timetables showing time and place at which individual examinations will be held are posted on the central notice boards. Misreading of the timetable is not an acceptable excuse for failure to attend an examination. Examination results are posted to the term addresses of students. No results will be given by telephone.

All students (including students enrolled for a thesis only) must lodge an application for admission to examinations by 14th July, 1967.

The Accountant is authorized to receive application forms during the three weeks immediately following the prescribed closing date if they are accompanied by a late fee of $4. Applications forwarded more than three weeks after the closing date will not be accepted except in very exceptional circumstances and with the approval of the Registrar. Where an application is not accepted the student concerned is not eligible to sit for the examination.
Applications lodged prior to the due date will be acknowledged by postcard. Students who do not receive an acknowledgement within ten days of lodging the application should contact the Examinations Branch or the office of the college attended.

As a result of the application of machine methods to the processing of examination results, all students in Sydney, Wollongong and Broken Hill receive a pro-forma application for admission to examinations listing the subjects for which the student has formally enrolled. The return of this pro-forma duly completed constitutes the application for admission to examinations. Pro-forma applications will be posted to students on 30th June. Any student who does not receive a pro-forma application must contact the Examinations Branch prior to the date prescribed for the return of applications.

RESTRICTION UPON STUDENTS RE-ENROLLING

The University Council has adopted the following rules governing re-enrolment with the object of requiring students with a record of failure to show cause why they should be allowed to re-enrol and retain valuable class places. These rules will be applied retrospectively from January, 1962.

(i) As from 1st January, 1962, a student shall show cause why he should be allowed to repeat a subject in which he has failed more than once. (Failure in a deferred examination as well as in the annual examination counts, for the purpose of this regulation, as one failure.) Where such subject is prescribed as a part of the student's course he shall be required to show cause why he should be allowed to continue the course. A student in the medical course shall show cause why he should be allowed to repeat the second year of the course if he has failed more than once to qualify for entry to the third year.

(ii) Notwithstanding the provisions of clause (i), a student shall be required to show cause why he should be allowed to continue a course which he will not be able to complete in the time set down in the following schedule:
*(iii) No full-time student shall, without showing cause, be permitted to continue a course unless all subjects of the first year of his course are completed by the end of his second year of attendance. No student in the Faculty of Arts shall, without showing cause, be permitted to continue a course unless he completes four subjects, one of which must be from Group VII, by the end of his second year of attendance.

No part-time student shall, without showing cause, be permitted to continue a course unless all subjects of the first two stages of his course are completed by the end of his fourth year of attendance and all subjects of the third and fourth stages of his course by the end of his seventh year of attendance.

No student in the Faculty of Medicine shall, without showing cause, be permitted to continue with the medical course unless he completes the second year of the course by the end of his third year of attendance, and the third year of the course by the end of his fourth year of attendance.

(iv) A student who has a record of failure in a course at another University shall be required to show cause why he should be admitted to this University. A student admitted to a course at this University following a record of failure at another University shall be required to show cause, notwithstanding any other provisions in these rules, why he should be permitted to continue in that course if he is unsuccessful in the annual examinations in his first year of attendance at this University.

* Rule (iii) in so far as it relates to students in the Faculty of Arts will apply retrospectively as from the 1st January, 1967, and in so far as it relates to students in the Faculty of Medicine, will apply to students enrolling for the first time in 1967 or thereafter.
(v) Any student excluded under any of the clauses (i)-(iii) may apply for re-admission after two academic years and such application shall be considered in the light of any evidence submitted by him.

(vi) A student wishing "to show cause" under these provisions shall do so in writing to the Registrar. Any such application shall be considered by the Professorial Board, which shall determine whether the cause shown is adequate to justify his being permitted to continue his course or re-enrol as the case may be.

(vii) The Vice-Chancellor may on the recommendation of the Professorial Board exclude from attendance in a course or courses any student who has been excluded from attendance in any other course under the rules governing re-enrolment and whose record at the University demonstrates, in the opinion of the Board and the Vice-Chancellor, the student's lack of fitness to pursue the course nominated.

(viii) A student who has failed, under the provisions of Clause (vi) of these rules, to show cause acceptable to the Professorial Board why he should be permitted to continue in his course, and who has subsequently been permitted to re-enrol in that course or to transfer to another course, shall also be required to show cause, notwithstanding any other provisions in these rules, why he should be permitted to continue in that course if he is unsuccessful in the annual examinations immediately following the first year of resumption or transfer of enrolment as the case may be.

(ix) A student may appeal to an Appeals Committee constituted by Council for this purpose, against his exclusion by the Professorial Board from any subject or course.

RE-ADMISSION AFTER EXCLUSION

Applications for re-admission must be made on the standard form and lodged with the Registrar not later than 30th June of the year prior to that for which re-admission is sought. An application should include evidence of appropriate study in the subjects (or equivalents) on account of which the applicant was excluded. In addition, evidence that the circumstances which were deemed to operate against satisfactory performance at the time of exclusion
are no longer operative or are reduced in intensity, should be furnished. An applicant may be required to take the annual examinations in the relevant subjects as qualifying examinations in which case re-admission does not imply exemption from the subject.

It should be noted that a person under exclusion may not be enrolled in miscellaneous subjects unless he has received the approval of the Professorial Board.

Persons who intend applying for re-admission to the University at a future date may seek advice as to ways in which they may enhance their prospects of qualifying for re-admission. Enquiries should be made on a form obtainable from the Examinations Branch, and lodged with the Registrar.
STUDENT SERVICES

THE LIBRARY

The University library is on the upper campus and adjacent to the Chancellery and the Morven Brown and John Goodsell Buildings. The Bio-Medical Library is in the Biological Sciences Building with a branch at Prince Henry Hospital (Phone: 661-0111). Library services are also available at Sydney Technical College, Wollongong University College and Broken Hill Division.

Each library provides a reference and lending service for staff and students, and is open in term during day and evening sessions. The library service provided by the Sydney Technical College Library is restricted to staff and students in the Department of Optometry.

Staff and students must register with the library or libraries from which they intend to borrow books.

THE UNIVERSITY UNION

The University Union is a common meeting ground for all students. Eating and general recreational facilities are available, as well as a shop for stationery and other student requisites, branches of several banks, a pharmacy, a branch of Anthony Horderns, and hairdressing facilities. Membership is compulsory for all registered students.

STUDENT ACCOMMODATION

Residential Colleges

Accommodation for students is provided within the complex of the Residential Colleges of the University which comprise Basser College, Phillip Goldstein Hall, Philip Baxter College and Post-Graduate Hall. The College complex houses 500 men and women students, as well as staff members. Tutors in residence provide tutorial assistance in a wide range of subjects.
Board and residence fees, which are payable on a term basis, amount to $18.50 per week. Intending students should apply in writing to the Master, Box 24, Post Office, Kensington, N.S.W., from whom further information is available.

Other Accommodation

Students requiring other than Residential College accommodation may make application to the Student Amenities Service where current lists are kept of accommodation available at recognised boarding houses, private homes, and in serviced and unserviced apartments.

STUDENT COUNSELLING AND RESEARCH UNIT

Prospective students seeking advice or guidance regarding the selection and planning of courses (particularly in relation to a career), or advice regarding their suitability for a particular course, are invited to consult the University's Student Counselling and Research Unit. Appointments may be made by telephone (663-0351, extensions 2600 to 2605).

In addition to its counselling service, the Unit provides a variety of study skills programmes throughout the year, on a group or individual basis. Programmes offered in the past have included Reading Improvement, Study Methods, Written Expression, Note Taking, Studying Mathematics, Improving Listening, Preparing for Statistics.

STUDENT AMENITIES SERVICE

This Service is closely associated with the Sports Association and also handles applications for student concession fares and provides a service for students requiring other than College accommodation.

STUDENT EMPLOYMENT SERVICE

Assistance is offered in finding vacation employment, continuous part-time employment, casual employment and odd jobs, full-time employment for evening students, and permanent employment after graduation. The Service is located in the Chancellery, just near the main entrance.

STUDENT HEALTH SERVICE

A student health and first aid centre, staffed by a qualified medical practitioner and a nursing sister, is provided by the University. Students are encouraged to attend the centre for advice on all matters pertaining to their health.
SCHOLARSHIPS, BURSARIES AND CADETSHIPS

Students undertaking courses in the Faculty of Science are eligible to apply for the following scholarships or cadetships.

**University Scholarships**

The University annually awards up to fifteen scholarships tenable in degree courses to students who have matriculated at the Leaving Certificate Examination; ten scholarships to students who have completed certificate courses (Department of Technical Education); ten scholarships to students who have completed Trade Courses (Department of Technical Education); and ten scholarships to part-time students who have taken the Qualifying and Matriculation course of the Department of Technical Education. The scholarships are tenable in any faculty and exempt the holder from payment of course fees during the currency of the scholarship. Scholarships will be awarded in order of merit on Leaving Certificate Examination results. They may be held only by persons who do not hold another award. Applications must be lodged after publication of Leaving Certificate Examination results and after the announcement of the award of Commonwealth Scholarships, but not later than 31st January.

**Commonwealth Scholarships**

There are three types of scholarships, which are available for both Pass and Honours courses: (a) Open Entrance Scholarships; (b) Scholarships for the Second or Later Years of a Course; (c) Mature Age Scholarships. Benefits include payment of tuition fees, examination fees, matriculation fees, degree fees, and other compulsory fees. Full-time students may also apply for a living allowance, which is subject to a means test.

The closing date for applications for Commonwealth Scholarships is September 30 of the year immediately preceding the year for which the scholarship is desired. Applications for renewal of scholarship must be made before 31st October each year. Further information, application forms and the Commonwealth Scholar-
The John Heine Memorial Scholarship

Students qualified to enrol in the third year of the full-time Applied Chemistry Course or in the Applied Chemistry Conversion Course, and who are employees of a member of the Metal Trades Employers' Association are eligible to apply for the John Heine Memorial Scholarship.

The scholarship has a total value of $700, which is paid at the following rates:—

(i) Final two years of the Applied Chemistry Degree Course:
   1st year ........................................ $300
   2nd year ........................................ $400

(ii) Applied Chemistry Conversion Course:
   1 full-time year .................................. $500
   2 part-time years
      1st year ........................................ $200
      2nd year ........................................ $300

Applications should be made not later than 31st January of each year to the Secretary, John Heine Memorial Foundation, c/- Metal Trades Employers’ Association, 101 Walker Street, North Sydney.

Bursaries Awarded by the Bursary Endowment Board

A number of Bursaries tenable at the University are awarded to candidates of merit at the Leaving Certificate Examination whose family income falls within certain limits prescribed by the Bursary Endowment Board.

Applications should be made to the Secretary, Bursary Endowment Board, c/- Department of Education, Bridge St., Sydney.

Australian Optometrical Association Scholarships

The Australian Optometrical Association and the Australian Optometrical Association (New South Wales Division) offer annually one scholarship each to the value of $500 per annum. These scholarships are available to students who desire to enrol in the full-time degree course in Optometry leading to the degree of Bachelor of Optometry at the University of New South Wales.
Applicants must be residents of New South Wales. While scholarship holders are not under any bond or obligation, it is expected that they will practise optometry in Australia. Candidates must be under 21 years of age at the time of application.

Each scholarship will normally be tenable for the duration of the course but its tenure shall be at all times subject to the holder maintaining a standard of conduct and progress acceptable to the Professorial Board. The annual allowance of the scholarship is payable to the holder in three equal amounts at the commencement of each term of the University year.

These scholarships will be awarded on the understanding that applicants will normally hold a Commonwealth Scholarship which covers the cost of University fees. However, applicants who are not holders of a Commonwealth Scholarship may also be considered.

Application for these scholarships, on forms obtainable from the Registrar, must be lodged with the Registrar after publication of examination results and the announcement of the award of Commonwealth Scholarships, but not later than 31st January each year.

**Traineeships and Cadetships**

Traineeships and cadetships are offered by the N.S.W. Public Service Board and by the Commonwealth Service.

These traineeships make it possible for selected employees of the Commonwealth or State Public Services to undertake full-time University study.

Students receive a salary during their years at the University and are required to undertake their industrial training with the department in which they are employed. Full details of cadetships and traineeships available at any one time may be had, in the case of the State authorities, from the N.S.W. Public Service Board, 19 O'Connell Street; and in the case of the Commonwealth authorities, from the Employment Officer, Commonwealth Public Service Inspector's Office, Commonwealth Centre, Chifley Square (cnr. Phillip and Hunter Streets) (telephone 28-5701).

**Department of Railways Cadetships**

The Department of Railways each year offers cadetships in Chemistry. Cadet chemists are enrolled in the appropriate part-time course leading to the degree of B.Sc. and are required to
enter into a bond of $1000 to remain in the employ of the Department for five years after completion of the cadetship. Cadets have their course fees paid and receive a salary in accordance with the award rates.

The following salaries were in effect in September, 1966:

- 1st Year: $1210
- 2nd Year: $1458
- 3rd Year: $1661
- 4th Year: $1824
- 5th Year: $2014

Upon reaching the age of 21, cadets receive a salary of $2118 per annum.

Vacancies for cadets are advertised between November and January and full details are given in a brochure available during this period from the Employment Personnel Officer, Department of Railways, 509 Pitt Street, Sydney.

**Sponsored Students**

Many private industrial and commercial organisations sponsor students in Science courses. The conditions under which students are sponsored vary from company to company, but in general the company meets all compulsory fees. Industrial training is generally undertaken with the sponsoring company.

Students are advised to consult the Admissions Office or the Student Counselling Unit at Kensington for further details concerning scholarships and cadetships and for information concerning companies sponsoring students.
FACULTY OF SCIENCE COURSES

The courses available within the Faculty of Science are of two types. The first is the Science Course, which allows a student to select sequences from a variety of the sciences. The regulations governing this course and the list of subjects available appear below. The course is of three years' duration for the degree of Bachelor of Science, with an additional year for Honours. The course may also be taken on a part-time basis, normally requiring a minimum of seven years' study, and leads to the degree of Bachelor of Science (Pass).

The second type of course offered by the Faculty consists of the more specialised courses in Applied Chemistry, Applied Psychology and Optometry. The Applied Chemistry and Applied Psychology courses lead to the degree of Bachelor of Science and the Optometry course to the degree of Bachelor of Optometry. The Applied Chemistry course may be completed in three years of full-time study or six years of part-time study; an additional full-time year (or two part-time years) is required for Honours. The Applied Psychology course, formerly a part-time course only, was revised at the end of 1962, and since 1963 both full-time (four years) and part-time (six years) courses have been offered at Pass or Honours level. For students who commenced prior to 1963 the old part-time course of five years (pass) or six years (honours) will continue to operate. The Optometry course is a four-year full-time course.

Details of the three special courses mentioned above are given under the titles of the Schools which provide them.

COMMON FIRST YEAR

All students in the Faculties of Science (with the exception of the Applied Psychology course), Engineering (with the exception of Surveying), Medicine and Applied Science (with the exception of the Geography course), are required in their first full-time year to enrol in Mathematics I, Physics I and Chemistry I, together with a fourth subject, which may be one of Engineering I, General Biology, Geology I, Psychology I or Geography I. This system
enables a student to defer his final choice of the course he wishes to complete until the end of the first year, when, depending on the fourth subject taken, he may elect to transfer to one of a number of other courses, as shown below:

<table>
<thead>
<tr>
<th>Elective</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering I</td>
<td>Applied Chemistry</td>
</tr>
<tr>
<td></td>
<td>Science</td>
</tr>
<tr>
<td></td>
<td>Industrial Chemistry</td>
</tr>
<tr>
<td></td>
<td>Polymer Science</td>
</tr>
<tr>
<td></td>
<td>Ceramic Engineering</td>
</tr>
<tr>
<td></td>
<td>Ceramics</td>
</tr>
<tr>
<td></td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td></td>
<td>Aeronautical Engineering</td>
</tr>
<tr>
<td></td>
<td>Civil Engineering</td>
</tr>
<tr>
<td></td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td></td>
<td>Fuel Engineering</td>
</tr>
<tr>
<td></td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td></td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td></td>
<td>Metallurgy</td>
</tr>
<tr>
<td></td>
<td>Mining Engineering</td>
</tr>
<tr>
<td></td>
<td>Naval Architecture</td>
</tr>
<tr>
<td></td>
<td>Textile Technology</td>
</tr>
<tr>
<td>General Biology</td>
<td>Applied Chemistry</td>
</tr>
<tr>
<td></td>
<td>Science</td>
</tr>
<tr>
<td></td>
<td>Food Technology</td>
</tr>
<tr>
<td></td>
<td>Industrial Chemistry</td>
</tr>
<tr>
<td></td>
<td>Medicine</td>
</tr>
<tr>
<td></td>
<td>Optometry</td>
</tr>
<tr>
<td></td>
<td>Wool Technology</td>
</tr>
<tr>
<td></td>
<td>Industrial Chemistry</td>
</tr>
<tr>
<td>Geology I</td>
<td>Applied Geology</td>
</tr>
<tr>
<td></td>
<td>Science</td>
</tr>
<tr>
<td></td>
<td>Industrial Chemistry</td>
</tr>
<tr>
<td></td>
<td>Applied Chemistry</td>
</tr>
<tr>
<td>Psychology I</td>
<td>Science</td>
</tr>
<tr>
<td>Geography I</td>
<td>Science</td>
</tr>
<tr>
<td></td>
<td>Applied Chemistry</td>
</tr>
</tbody>
</table>

Students seeking to transfer to the Faculty of Medicine at the end of the first year should note that entry into second year of the medical course is competitive and that successful completion of the four first year subjects does not guarantee a place in the course. Applications for entry to second year of the medical course must be lodged with the Registrar by 30th November of the year preceding that for which enrolment is being sought.

Rules Relating to Common First Year Subjects in the Faculties of Applied Science, Medicine, Science, and Engineering

1. Each student intending to follow any course leading to the degree of Bachelor in any of the Faculties of Science (with the exception of the Applied Psychology course), Applied Science (with the exception of the Geography course), Medicine or Engineering, must have satisfied the examiners in the subjects of 1.001 Physics I, 2.001 Chemistry I, 10.001
Mathematics I, and in a fourth subject (elective) chosen from 5.001 Engineering 1, 25.511 Geology I, 12.011 Psychology I, 17.001 General Biology or 27.001 Geography I, before progressing further in his course, except that progression may be permitted with outstanding subjects if Faculty regulations permit, provided that for students intending to follow the course leading to the Bachelor of Surveying degree, the subject 2.001 Chemistry I above shall be replaced by the subject 8.801 Surveying I.

2. Notwithstanding Faculty regulations to the contrary, full-time students will be required to complete the four subjects of Rule 1 in not more than two years’ study and part-time students in not more than four years’ study. The re-enrolment of students who have not complied with this rule shall be subject to the general rules governing re-enrolment.

3. At enrolment, each student to whom Rule 1 applies will be required to nominate and apply for admission to the course which he desires to follow. Although application for transfer from one course to another within these Faculties may be made at any time, students are advised that such transfers are most readily effected prior to re-enrolment in the second year of full-time courses and the third stage of part-time courses. All such transfers will be subject to the regulations of relevant Faculties and the concurrence of the Professorial Board.

HONOURS COURSES

In general, Honours degrees are awarded after one year of extra study for full-time students or two years for part-time students. The requirements of the School in which the student is to take Honours are, broadly, that (i) he apply in writing to the Head of the School in which he anticipates working, during the final year in his pass course; and (ii) that he have a better than average record in his studies.

He will be required to complete in a satisfactory manner such courses as the Head of the School prescribes and engage in a programme of original research under the supervision of a staff member.

More precise details are given under the sections dealing with the various schools.
POST-GRADUATE COURSES

On completion of a first degree course (B.Sc.) the student may wish to proceed to a higher degree. This usually entails two or three years’ research under direction. A limited number of Scholarships are available at this and other Universities, and these are competitive.

Several courses at the post-graduate level, leading to the award of a Graduate Diploma are also available. These are in Food and Drug Analysis and Biochemical Engineering.

The regulations governing higher degrees are to be found in the University Calendar. A candidate thinking of undertaking such a course should first discuss the matter with the Head of the School in which he wishes to study.
GENERAL STUDIES COURSES

All undergraduates in faculties other than Arts are required to complete a number of general studies subjects. The general pattern and course outlines in the Faculty of Science are listed below.

Full-time Courses

Three-Year Courses

First Year: No general studies subjects.
Second Year: 26.501 English or 26.571 An Introduction to Modern Drama (each of 45 hours).
Third Year: Two 30-hour* courses to be selected from:

- 26.121 Psychology
- 26.151 Economics
- 26.301 Music
- 26.511 History
- 26.521 Philosophy
- 26.531 Sociology
- 26.541 Political Science
- 26.601 History of Technology
- 11.011H History of Fine Arts
- 11.021H History of Architecture

Except that students who have chosen 26.571 An Introduction to Modern Drama may select only one of the following electives:

- 26.301 Music
- 26.601 History of Technology
- 11.011H History of Fine Arts
- 11.021H History of Architecture

Four-Year Courses

In addition to the above requirements, students completing four-year courses, either Pass or Honours, will take a further course in one of the subjects already studied or may select 11.031H History of Fine Arts and Architecture. It should be noted, however, that 11.031H may not be chosen if either 11.011H or 11.021H has previously been taken. The other subjects require a previous course in the same subject as a pre-requisite.

* 30-hour courses will be increased to 45 hours from 1968.
The subjects offered are:—

26.122  Psychology
26.152  Economics
26.502  English
26.512  History
26.522  Philosophy
26.532  Sociology
26.542  Political Science
11.031H History of Fine Arts and Architecture

Students in the Applied Psychology course should note that they must select the following subjects: 26.501 in second year, 26.511 in third year, 26.521 in fourth year.

**Part-time Courses**

B.Sc. in Applied Chemistry: pass students must take 26.501 or 26.571 in their fourth year, one 30-hour course in fifth year, and a further 30-hour course in sixth year. Honours students take an additional advanced course.


B.Sc. in Science Course: as for full-time courses.

**26.121 Psychology**

An introduction to general psychology by way of a course centred upon issues related to the study of personality-motivation, perception, learning, the nature of personality development and of social behaviour.

**TEXT BOOK**


or


**REFERENCE BOOK**


**26.122 Psychology**

The theme of this elective is man in society, his strivings, satisfactions and values. The course examines what psychology has to say about personality, the roles which people adopt, the groups people form and the nature of group relations, the effect of group interaction, the importance of attitudes, the influence of propaganda and the function of conformity, conventions and customs.

**TEXT BOOKS**


26.151 Economics
An introductory examination of the working of a modern economic system, with some reference to Australian economic institutions.

TEXT BOOKS

26.152 Economics
Follows 26.151 Economics. A more penetrating study of central fields of economic theory and includes such topics as the history of economic thought and different economic systems. Particular attention paid to relating economic theory to such subjects as the population explosion, economic growth, and the role of international trade and economic integration. Further studies of the economic structure and economic policy of Australia.

TEXT BOOKS

26.301 Music
A brief survey of music from the earliest times of documented history to the present day in the context of particular societies and periods. Many of the recorded examples used will be European music of a kind normally heard in the concert hall, but wherever possible European art music will be presented in juxtaposition with the practice of traditional or folk music of all continents (including the music of the Australian Aborigines) and with the high art music of Asian countries. Including continuity of improvisational methods from early periods to the development of jazz, and samples of the latest developments in contemporary music (including electronic music). Musical training is not a prerequisite.

TEXT BOOKS

REFERENCE BOOKS
Kerman, J. *Opera as Drama.* Vintage, New York, 1956.


**26.501 English**

Aims at stimulating an interest in literature through a study of twentieth century texts, which explore, in the main, contemporary problems. Uses of language also studied.

**TEXT BOOKS**

- Forster, E. M. *Where Angels Fear to Tread.*
- Lawrence, H. D. *Sons and Lovers.*
- Ernest Hemingway. *A Farewell to Arms.*
- Albert Camus. *The Outsider.*
- Carson McCullers. *The Ballad of the Sad Café.*
- Tennessee Williams. *A Streetcar Named Desire.*
- Arthur Miller. *Death of a Salesman.*
- *Three Australian Plays.*

All the texts are available in Penguin paperback editions, but any complete edition will do.

**26.502 English**

Prerequisite 26.501 or acceptable equivalent. Selected works from the literature of the eighteenth, nineteenth and twentieth centuries.

**TEXT BOOKS**

- Eliot, T. S. *Selected Poems.* Faber & Faber.
- Forster, E. M. *A Passage to India.*
- Patrick White. *The Tree of Man.*

**26.511 History**

An introduction to modern Western civilization through the study of six special periods of stress and political, intellectual, economic and social change. These are the Renaissance and Reformation, the English revolution of the seventeenth century, the American and French revolutions of the eighteenth century, the industrial revolution of the eighteenth and nineteenth centuries and the Russian revolution of 1917.

**TEXT BOOKS**

1. *Renaissance and Reformation.*
   
   - Hale, J. R. *Machiavelli and the Renaissance.* T.Y.H.
   - Bainton, R. H. *The Age of the Reformation.* Anvil.


5. *The Industrial Revolution.*


26.512 History
   A survey of events since 1919 to give an historical understanding of
   the world today. Its main topics are: the Peace Settlement after World
   War I; the growth of communist Russia; dictatorship in Europe; USA
   between the wars and the abandonment of isolation; an outline of World
   War II, its causes and effects; the cold war; the role of UNO; the
   changing British Commonwealth; the decline of colonialism; African
   nationalism; communism in China; the crisis in S.E. Asia.

REFERENCE BOOKS
   Crozier, B. *South-East Asia in Turmoil*. Pelican, 1966.

26.521 Philosophy
   A general introduction to philosophy. The course deals with differences
   between philosophical and other questions; the distinction between
   necessarily true or necessarily false and contingent statements; the broad
   differences between empiricism and rationalism; the relation of knowledge
   of beliefs to the evidence for them. An introductory account is given of
   some important philosophical issues such as: causality and scientific laws;
   determinism and free will; the relation of mental and physical; the
   existence of God.

TEXT BOOKS
   Hamblin, C. L. *Elementary Formal Logic*. Hicks Smith.
   Hospers, J. *Introduction to Philosophical Analysis*. Routledge and Kegan
   Paul.

REFERENCE BOOKS
Hook, S. Determinism and Freedom in the Age of Modern Science.
   Collier.
Wollheim, R. Hume on Religion. Fontana.
Keene, G. B. Language and Reasoning. van Nostrand.

26.522 Philosophy

Prerequisite 26.521. Alternative versions may be given. Syllabus A —
Survey of recent philosophy with particular attention to "logical positivism".
Syllabus B — Introduction to symbolic logic.

TEXT BOOKS (Syllabus A)
Passmore, J. A. A Hundred Years of Philosophy. Duckworth.

TEXT BOOKS (Syllabus B)

26.531 Sociology

Students may select either Part A or Part B of 53.111 Sociology I.

26.532 Sociology

Students may select two of the specialized topics under Part B of
53.112 Sociology II.

26.541 Political Science

An introduction to the advanced elective, 26.542, and a unit in its
own right for students not proceeding further in Political Science.

About ten lectures will be on general questions of politics — what
politics is about, the meaning of a political system, concepts such as state,
law, government, rights, etc. The remaining twenty lectures will deal with
three major political systems — Great Britain, U.S.A. and Australia. Both
the common and distinct characteristics of each will be discussed, and
these examples will be used to illustrate some general questions about
political institutions and ideas.

TEXT BOOKS
Birch, A. H. Representative and Responsible Government — An Essay on
Griffith, E. S. The American System of Government. Methuen, London,
1964 (University Paperbacks).
Sawer, G. Australian Government Today. Melbourne University Press,
1964. (Paperback).
(Paperback).
REFERENCE BOOKS

26.542 Political Science
Will be conducted in first and second terms and by following on from 26.541 will extend the student's acquaintance with modern political systems. Three sections, of about twenty lectures each, dealing with (a) established communist regimes (U.S.S.R., the East European Peoples' Democracies, and China); (b) two Asian political systems; and (c) the international political system.

TEXT BOOKS

REFERENCE BOOKS

26.571 An Introduction to Modern Drama
An introduction to modern drama through the study of plays by Ibsen, Chekov and other writers, covering the range of dramatic activity from Naturalism to the Absurd. Students, through a critical examination of plays in performance at the Old Tote Theatre (situated in the grounds of the University) also have an opportunity to enjoy the direct experience of theatre. Directors of current Old Tote productions take part in the course.
TEXT BOOKS
O'Neill. *The Emperor Jones*.
O'Neill. *Mourning Becomes Electra*.
Miller. *Death of a Salesman*.

With additional assignments to be prescribed. Plays in performance at the Old Tote Theatre are also prescribed for study and students of the course are required to attend one performance of each play presented during the academic year.

26.601 History of Technology
Shows that the development of the human race is closely linked with technological change. Every major development is to be seen against the historical background of the times and the changing socio-economic pattern. The subject will be dealt with in the following historical periods: Prehistoric Times; the early civilizations of Mesopotamia, Egypt, India, and China; Classical Antiquity; Islamic Times and the Middle Ages; Renaissance and the Age of Enlightenment; and the beginning of the Industrial Revolution.

TEXT BOOK

REFERENCE BOOK

11.011H History of Fine Arts
An outline of the development of nineteenth and twentieth century painting and sculpture. Follows the movements concerned in the development of modern art from the stylistic background of the European tradition to contemporary works. Development of some phases of painting and sculpture during the Ancient, Medieval and Renaissance epochs. The influence of religious, economic and social factors on the more important works of the period.

TEXT BOOKS
REFERENCE BOOKS

Reading lists are issued progressively during the course.

11.021H History of Architecture

The role of the architect; architecture as an art, a science, and a practical profession; the origins of architectural form in ancient civilizations, and the development of these forms throughout the Middle Ages and the Renaissance; the effects of the Industrial Revolution and its aftermath, and the growth of modern architecture; the development of an Australian idiom in architecture and building.

TEXT BOOKS

REFERENCE BOOKS
A list will be issued early in the lecture series.

11.031H History of Fine Arts and Architecture

An introduction to the history and aesthetics of the visual arts of the Western world, i.e., architecture, paintings, sculpture, design and craftsmanship. Lectures are illustrated by slides and films.

TEXT AND REFERENCE BOOKS
Section I
Newton, E. *European Painting and Sculpture*. Penguin. (Pelican Books A82.)

Section II


**SUBSTITUTION OF ARTS SUBJECTS FOR HUMANITIES SUBJECTS**

In fulfilment of the Humanities requirements, and provided timetables and other circumstances permit, students in Faculties other than Arts may substitute certain Arts subjects for the prescribed Humanities subjects. Since Arts courses are conducted on a full-time basis, this provision will normally apply to full-time students only.

The manner in which substitution of Arts subjects may be effected is set out below.

A student may, subject to the approval of the Head of the relevant school in the Faculty of Arts, substitute for any 90 hours of his general studies programme one of the following Arts courses:

- 50.111 English I
- 56.111 French I
- 56.201 German IZ
- 56.211 German I
- 56.301 Spanish IZ
- 56.311 Spanish I
- 57.211 Drama I
Students who have passed in German or Spanish at matriculation level are not permitted to enrol in course IZ of that subject.

In place of a further 90 hours of General Studies, a student may, subject to the approval of the Head of the relevant School in the Faculty of Arts, substitute any of the following Arts courses:—

12.011 Psychology
15.101 Economics I
51.111 History I
52.111 Philosophy I
53.111 Sociology I
54.111 Political Science I

provided that the course in question or a corresponding course does not form part of the normal programme in the course being followed by the student.
THE SCIENCE COURSE

Various arrangements of this course are available to students wishing to specialise in subjects offered by the relevant Schools. No concurrent industrial experience is required.

All subjects are available for study during the day, and most during the evening sessions.

A pass degree may be awarded after three years' full-time study and an honours degree after four years' full-time study. The normal time for a course leading to a pass degree by part-time study is seven years with an additional year full-time, or two years part-time, for a course leading to an honours degree. Some subject groupings cannot be completed in the minimum time due to the exigencies of the timetable.

Progression in the Science Course is normally permitted by subjects (but see Clause 2e below).

Any arrangements of subjects to be studied under these regulations must be approved by the Dean of the Faculty and the advice of his representative must be sought*. A student who intends to seek admission to an Honours Course should consult the Head of the appropriate School on completion of the first year subjects. This is particularly important for those seeking Honours in Mathematics or Theory of Statistics since special studies will normally be prescribed to accompany their second year programmes. The normal requirements for admission to Honours studies in Schools of the Faculty may be found under the description of the courses offered by these Schools as set out below.

REGULATIONS GOVERNING THE SCIENCE COURSE

1. A student is required to select his course from the following groups of qualifying subjects in accordance with the provisions set out in subsequent clauses.†

* A table of recommended patterns of subjects is given below.
† A student who selects an unusual combination of subjects, or selects subjects from more than one group in one year, may be required, owing to the exigencies of the timetable, to attend for more than the minimum number of years (this may sometimes be avoided by attendance at night classes).
(A) GENERAL STUDIES

(i) One of the following:
- 26.501 English or
- 26.571 An Introduction to Modern Drama

(ii) Two of the following:
- 11.011H History of Fine Arts
- 11.021H History of Architecture
- 26.121 Psychology
- 26.151 Economics
- 26.301 Music
- 26.511 History
- 26.521 Philosophy
- 26.531 Sociology
- 26.541 Political Science
- 26.601 History of Technology

Additional for an Honours Degree—
Advanced General Studies Elective

<table>
<thead>
<tr>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lec. Lab./ Tut.</td>
<td>Lec. Lab./ Tut.</td>
<td>Lec. Lab./ Tut.</td>
</tr>
<tr>
<td>1 — 1</td>
<td>1 — 1</td>
<td>1 — 1</td>
</tr>
<tr>
<td>1 — 0</td>
<td>1 — 0</td>
<td>1 — 0</td>
</tr>
</tbody>
</table>

(B) SCIENCE SUBJECTS—

Group I—

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.001</td>
<td>Chemistry I</td>
<td>2 — 4</td>
<td>2 — 4</td>
<td>2 — 4</td>
</tr>
<tr>
<td>10.001</td>
<td>Mathematics I</td>
<td>4 — 2</td>
<td>4 — 2</td>
<td>4 — 2</td>
</tr>
<tr>
<td>1.001</td>
<td>Physics I</td>
<td>3 — 3</td>
<td>3 — 3</td>
<td>3 — 3</td>
</tr>
<tr>
<td>25.511</td>
<td>Geology I†</td>
<td>2 — 4</td>
<td>2 — 4</td>
<td>2 — 4</td>
</tr>
<tr>
<td>12.011</td>
<td>Psychology I</td>
<td>3 — 2</td>
<td>3 — 2</td>
<td>3 — 2</td>
</tr>
<tr>
<td>17.001</td>
<td>General Biology</td>
<td>2 — 4</td>
<td>2 — 4</td>
<td>2 — 4</td>
</tr>
<tr>
<td>5.001</td>
<td>Engineering I</td>
<td>3 — 3</td>
<td>3 — 3</td>
<td>2 — 4</td>
</tr>
<tr>
<td>27.001</td>
<td>Geography I</td>
<td>2 — 4</td>
<td>2 — 4</td>
<td>2 — 4</td>
</tr>
</tbody>
</table>

Group II—

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.002</td>
<td>Chemistry II</td>
<td>4 — 5</td>
<td>4 — 5</td>
<td>4 — 5</td>
</tr>
<tr>
<td>10.111</td>
<td>Pure Mathematics II</td>
<td>3 — 2</td>
<td>3 — 2</td>
<td>3 — 2</td>
</tr>
<tr>
<td>10.211</td>
<td>Applied Mathematics II</td>
<td>3 — 4</td>
<td>3 — 4</td>
<td>3 — 4</td>
</tr>
<tr>
<td>10.121</td>
<td>Pure Mathematics II (Higher)</td>
<td>6 — 0</td>
<td>6 — 0</td>
<td>6 — 0</td>
</tr>
<tr>
<td>10.221</td>
<td>Applied Mathematics II (Higher)</td>
<td>4 — 3</td>
<td>4 — 3</td>
<td>4 — 3</td>
</tr>
<tr>
<td>10.111W†</td>
<td>Pure Mathematics IIW</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>10.211W†</td>
<td>Applied Mathematics IIW</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>10.121W†</td>
<td>Pure Mathematics IIW (Higher)</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>10.221W†</td>
<td>Applied Mathematics IIW (Higher)</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>10.411W†</td>
<td>Mathematics IIW</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

† Geological excursions and field work are an essential component of these courses.
‡ The suffix "W" indicates a subject offered only at Wollongong University College.
2. (a) In order to qualify for admission to the degree of Bachelor of Science under these regulations a candidate must attend the classes and satisfy the examiners in the following subjects:—

*Geological field work is an essential part of the course.
(i) the subjects listed under section 1 (A),
(ii) nine Science subjects selected from the list in section 1 (B).

(b) The proposed course must be approved by the Dean of the Faculty of Science or his representative during enrolment, and for full-time students must include the study of Physics I, Mathematics I, Chemistry I and one other subject from Group I in the first year. In special circumstances, the Dean may grant the student permission to defer enrolment in one of the Group I subjects until the second year of the course. Where any alteration in the course approved at enrolment is desired, the student must obtain the approval of the Dean or his representative for the new course.

(c) The nine Science subjects must include:—
(i) Mathematics I, Physics I, and Chemistry I.
(ii) Either one or two other subjects from Group I
(iii) At least one subject from Group III, Part (a).

(d) No more than one subject from each of the following groups of subjects may be chosen:—
(i) Chemistry II; Chemistry IIA.
(ii) Pure Mathematics II; Pure Mathematics II (Higher); Pure Mathematics IIW; Pure Mathematics IIW (Higher); Mathematics IIW.
(iii) Applied Mathematics II; Applied Mathematics II (Higher); Applied Mathematics IIW; Applied Mathematics IIW (Higher); Mathematics IIW.
(iv) Pure Mathematics III; Pure Mathematics III (Higher); Pure Mathematics IIIW; Pure Mathematics IIIW (Higher); Mathematics IIIW.
(v) Applied Mathematics III; Applied Mathematics III (Higher); Applied Mathematics IIIW; Applied Mathematics IIIW (Higher); Mathematics IIIW.
(viii) Chemistry IIA; Biochemistry I.
(ix) Psychology I; Psychology (General Studies Elective).

(e) Full-time students are required to complete Mathematics I, Chemistry I, Physics I and one other Group I subject in the first two years of attendance or else show cause to the satisfaction of the Professorial Board why they should be allowed to re-enrol. The remaining subjects of the course may be completed in any order
consistent with the requirements concerning pre-requisite and co-requisite subjects as set out in Section 4.

3. In general a full-time student should complete his course as follows:

   First Year—
   Chemistry I, Mathematics I, Physics I and one other subject from Group I.

   Second Year—
   (A) English or An Introduction to Modern Drama.
   (B) Three subjects from Group II, or two subjects from Group II and one from Group I.

   Third Year—
   (A) Two 30-hour General Studies Electives,
   (B) Two subjects from Group III, Part (a), or one subject from Group III, Part (a) and one from Group III, Part (b), or one subject from Group III, Part (a) and one from Group II.

   In particular cases, however, the Head of the Department of General Studies has discretion to vary the order in which the Humanities subjects are taken.

4. Pre-requisites and Co-requisites

   (a) Before enrolling for any subject listed in Group II the student shall have attended the classes and satisfied the examiners in the corresponding subject in Group I, and before enrolling for any subject listed in Group III, the student shall have attended classes and satisfied the examiners in the corresponding subject listed in Group II.

   (b) Before enrolling in any subject listed in the left-hand column below, the student shall have attended the classes and satisfied the examiners in the subjects stated as pre-requisites in the right-hand column.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group II—</td>
<td></td>
</tr>
<tr>
<td>Chemistry II A</td>
<td>Chemistry I and General Biology</td>
</tr>
<tr>
<td>Physics II</td>
<td>Mathematics I</td>
</tr>
<tr>
<td>Botany I</td>
<td>General Biology</td>
</tr>
<tr>
<td>Zoology I</td>
<td>General Biology</td>
</tr>
<tr>
<td>Biochemistry I</td>
<td>General Biology and Chemistry I</td>
</tr>
</tbody>
</table>
Subject

Pure Mathematics II
—either level

Applied Mathematics II
—either level

Theory of Statistics I
—either level

Pure Mathematics IIW
—either level

Applied Mathematics IIW
—either level

Mathematics IIW

Pre-requisite/s

Mathematics I

Group III—

Physics III

Pure Mathematics II—either level

or Pure Mathematics IIW—either level

Botany II

Biochemistry I or one of the Group II subjects offered by the Schools of Chemistry, Mathematics or Physics

Zoology II

Chemistry II or Biochemistry I or Chemistry II

Microbiology I

Either Chemistry II A; or Biochemistry I; or Chemistry II and General Biology

Biochemistry II

Chemistry II

Theory of Statistics II
—either level

Pure Mathematics III
(Higher)

Pure Mathematics II (Higher) and one other Group II subject of the School of Mathematics

Mathematical Physics

Pure Mathematics II and Physics II

Entomology I

Zoology I and one of Chemistry II A, Chemistry II, or Biochemistry I

Physiology II

Biochemistry I*

(c) Enrolment in the subject in the left-hand column shall not be approved unless the corresponding subject or subjects listed in the right-hand column are taken concurrently or have been completed.

Subject

Pure Mathematics II
—either level, or

Pure Mathematics IIW—either level

Group II—

Applied Mathematics II
—either level

Applied Mathematics IIW—either level

* In exceptional cases either Physics II or Chemistry II may be substituted.
Group III—
Chemistry III
(Supplementary)
Theory of Statistics II
—either level
Geology III
(Supplementary)
Mathematical Physics
Psychology III
(Supplementary)

Chemistry III
Pure Mathematics III
—either level, or
Pure Mathematics IIIW
—either level
Geology III
Physics III
Psychology III

The Dean of the Faculty has the power to vary in exceptional cases the pre-requisites and/or co-requisites set down above on the recommendation of the Head of the appropriate school.

Part-time Study
5. For part-time as for full-time students subjects are offered as whole units, with the exception of Physics III and Mathematical Physics. These two subjects from Group III are still offered in sections during the evening, and the hours per week allocated to them are shown below:—

<table>
<thead>
<tr>
<th>Group III—</th>
<th>Hours per week for 30 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lec. Lab./Tut.</td>
</tr>
<tr>
<td>Physics III</td>
<td>Part I 2 — 4</td>
</tr>
<tr>
<td>Mathematical</td>
<td>Part I 2½ — 1/2</td>
</tr>
<tr>
<td>Physics III</td>
<td></td>
</tr>
<tr>
<td>Mathematical</td>
<td></td>
</tr>
</tbody>
</table>

6. A part-time student must select his subjects in compliance with the regulations set out above for full-time students. However, a part-time student is required to complete Chemistry I, Mathematics I, Physics I and one other Group I subject in the first four years of enrolment.

Honours Course
7. (a) A suitably qualified candidate may be admitted to an honours course in one of the following subjects. An extra year of full-time work, or two extra years of part-time work, is required.

(i) Biochemistry.
(ii) Botany.
(iii) Chemistry.
(iv) Geology.
(v) Mathematics.
(vi) Microbiology.
(vii) Entomology.
(viii) Physics.
(ix) Psychology.
(x) Theory of Statistics.
(xi) Zoology.
(xii) Physiology.
(b) A student desiring admission to the honours course must apply to the Head of the appropriate School on completion of the pass degree requirements.

(c) A student proceeding to honours in any School must attend lectures, read and engage in laboratory work as may be required by the Head of the School.

The special requirements for admission to the honours course in each of the above subjects, except Physiology, are set out earlier in the sections dealing with the Schools of Applied Geology, Applied Psychology, Biological Sciences, Chemistry, Mathematics and Physics.

Honours in Physiology

Students wishing to do an honours year in Physiology should consult the Head of the School while they are doing Physiology II in the third year of their course—as early in the year as possible but certainly not later than the beginning of the third term.

The requirement for admission to the honours course is a good academic record during the pass degree course.

The honours course will include advanced training in experimental physiology and participation in one of the research projects of the School.

Advanced Standing in the Science Course for Engineering Students

A student who has satisfied the examiners in the first two years of an Engineering course, including Physics II and Mathematics II as prescribed for the Electrical Engineering course, may be admitted to the Science degree with advanced standing.

Such student shall be required to complete the appropriate Humanities and three Science course subjects in accordance with the regulations, except that he may qualify for a pass B.Sc. by completing two Group III subjects.
RECOMMENDED PATTERNS OF SUBJECTS IN THE SCIENCE COURSE

Chemistry Courses*

The recommended patterns of courses for a Chemistry major are:

**COURSE I**

<table>
<thead>
<tr>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I</td>
<td>Chemistry II</td>
<td>Chemistry III</td>
</tr>
<tr>
<td>Physics I</td>
<td>Physics II</td>
<td>Chemistry III</td>
</tr>
<tr>
<td>Mathematics I</td>
<td>Pure Mathematics II</td>
<td>(Supplementary)</td>
</tr>
<tr>
<td>Geology I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COURSE II**

<table>
<thead>
<tr>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I</td>
<td>Chemistry II</td>
<td>Chemistry III</td>
</tr>
<tr>
<td>Physics I</td>
<td>Biochemistry I</td>
<td>Chemistry III</td>
</tr>
<tr>
<td>Mathematics I</td>
<td>Botany I</td>
<td>(Supplementary)</td>
</tr>
<tr>
<td>Geology I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In addition, several variants are possible in second year, and Biochemistry II or Pure Maths. III, etc., can replace Chemistry III (Supplementary) in third year.

Physics Courses

The recommended patterns of courses for a Physics major are:

<table>
<thead>
<tr>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I</td>
<td>Pure Mathematics II</td>
<td>Mathematical Physics</td>
</tr>
<tr>
<td>Physics I</td>
<td>Chemistry II</td>
<td>or Pure Mathematics III</td>
</tr>
<tr>
<td>Mathematics I</td>
<td>Physics II</td>
<td></td>
</tr>
<tr>
<td>Geology I</td>
<td>or Theory of</td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td>Statistics I</td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td>Applied</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td>Mathematics II</td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Biological Sciences

The recommended patterns of courses for a major in one of the Biological Sciences are:

(a) Biochemistry

**COURSE I**

<table>
<thead>
<tr>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I</td>
<td>Biochemistry I</td>
<td>Biochemistry II</td>
</tr>
<tr>
<td>Physics I</td>
<td>Chemistry II</td>
<td>Chemistry III</td>
</tr>
<tr>
<td>Mathematics I</td>
<td>Botany I</td>
<td></td>
</tr>
<tr>
<td>General Biology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Students wishing to take Chemistry as a major subject may alternatively take the Applied Chemistry Course which also leads to a B.Sc. degree. All students proposing to major in Chemistry should read the section under "School of Chemistry", which will assist them in determining the most appropriate course.
### COURSE II  
**Year I**  
As above  

**Year II**  
- Biochemistry I  
- Chemistry II  
- Zoology I  

**Year III**  
- Biochemistry II  
- Chemistry III  

### (b) Microbiology  
**COURSE I**  
**Year I**  
As above  

**Year II**  
- Biochemistry I  
- Chemistry II  
- Botany I  

**Year III**  
- Microbiology I  
- Biochemistry II  

### (c) Botany  
**COURSE I**  
**Year I**  
As above  

**Year II**  
- Botany I  
- Biochemistry I  
- Chemistry II  

**Year III**  
- Botany II  
- Biochemistry II  

### (d) Zoology  
**COURSE I**  
**Year I**  
As above  

**Year II**  
- Zoology I  
- Biochemistry I  
- Chemistry II  

**Year III**  
- Zoology II  
- Biochemistry II  

### (e) Entomology  
**COURSE I**  
**Year I**  
As above  

**Year II**  
- Zoology I  
- Biochemistry I  
- Chemistry II  

**Year III**  
- Entomology I  
- Biochemistry II
### COURSE II

<table>
<thead>
<tr>
<th>Year I</th>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>As above</td>
<td>Zoology I</td>
<td>Zoology II</td>
</tr>
<tr>
<td></td>
<td>Biochemistry I</td>
<td>Entomology I</td>
</tr>
<tr>
<td></td>
<td>Botany I</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematics Courses***

Following are recommended patterns of courses for students taking mathematics as their major subject:

#### COURSE I

<table>
<thead>
<tr>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Mathematics II</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td>Applied Mathematics II</td>
<td>Applied Mathematics III</td>
</tr>
<tr>
<td>Theory of Statistics I</td>
<td>or Theory of Statistics II</td>
</tr>
<tr>
<td>Physical I</td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
</tr>
</tbody>
</table>

#### COURSE II

<table>
<thead>
<tr>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Mathematics II</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td>Applied Mathematics II</td>
<td>Applied Mathematics III</td>
</tr>
<tr>
<td>Physics II</td>
<td>or Theory of Statistics I</td>
</tr>
<tr>
<td>Physical I</td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
</tr>
</tbody>
</table>

#### COURSE III

<table>
<thead>
<tr>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Mathematics II</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td>Physics II</td>
<td>Theory of Statistics II</td>
</tr>
<tr>
<td>Theory of Statistics I</td>
<td>or Applied Mathematics II</td>
</tr>
<tr>
<td>Physical I</td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
</tr>
</tbody>
</table>

#### COURSE IV

<table>
<thead>
<tr>
<th>Year II</th>
<th>Year III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pure Mathematics II</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td>Applied Mathematics II</td>
<td>Physics III</td>
</tr>
<tr>
<td>Physics II</td>
<td></td>
</tr>
<tr>
<td>Physical I</td>
<td></td>
</tr>
<tr>
<td>or Psychology I</td>
<td></td>
</tr>
<tr>
<td>or General Biology</td>
<td></td>
</tr>
<tr>
<td>or Engineering I</td>
<td></td>
</tr>
<tr>
<td>or Geography I</td>
<td></td>
</tr>
</tbody>
</table>

Courses III and IV are also recommended by the School of Physics.

*Students intending to take Applied Mathematics III are strongly advised to include Physics II in the course pattern selected.*
The recommended patterns of courses for a Geology major are:

**Year I**
- Chemistry I
- Physics I
- Mathematics I
- Geology I

* Geology I and any two of the following:
  - Physics II
  - Pure Mathematics II
  - Chemistry II

**Year II**
- Geology II
- Pure Mathematics II
- Physics II

**Year III**
- Geology III
- Physics III
- Chemistry III

* Chemistry III will require some practical work outside the normal day course.

The recommended patterns of courses for a Psychology major are:

**COURSE I**

**Year I**
- Chemistry I
- Physics I
- Mathematics I
- Psychology I

**Year II**
- Psychology II
- Pure Mathematics II
- General Biology

**Year III**
- Psychology III
- Theory of Statistics I

**COURSE II**

**Year I**
- Chemistry I
- Physics I
- Mathematics I
- Psychology I

**Year II**
- Psychology II
- Chemistry II
- General Biology

**Year III**
- Psychology III
- Zoology I

**COURSE III**

**Year I**
- Chemistry I
- Physics I
- Mathematics I
- Psychology I

**Year II**
- Psychology II
- General Biology

**Year III**
- Psychology III
- Psychology III (Supplementary)

The recommended pattern of courses for a Physiology major is:

**Year I**
- Physics I
- Chemistry I
- Mathematics I
- General Biology

**Year II**
- Physiology I
- Biochemistry I
- Zoology I

**Year III**
- Physiology II
- Biochemistry II
- or Zoology II

* Students may also choose Physics II, but before enrolling in the subject, they must discuss their choice with a representative of the School of Physiology.
REQUIREMENTS FOR HONOURS IN THE SCIENCE COURSE

School of Applied Geology

Students in the Faculty of Science who have completed the two third year Geology subjects, in the case of full-time students, or the course requirements up to the end of the sixth year and whose programme includes the two third year geology subjects, in the case of part-time students, may apply to the Head of the School of Applied Geology to read for an Honours Degree in Geology. Students who have majored in either Physics and Geology or Chemistry and Geology may also be admitted with a view to studies in geophysics or geochemistry respectively.

The Honours course will consist of a short field assignment with appropriate work in the laboratory on material collected. The results of both the field and laboratory investigations to be presented in a graduation thesis. Advanced lectures, practical work and seminars. Short laboratory assignments on specific problems may be given. Further details of the Honours course may be had from the Head of School.

Full-time students will cover the work in the fourth year of the course. Part-time students will be required to commence their field thesis work at the end of the sixth year of their course and advanced laboratory assignments will be done in the eighth year along with the further work necessary to complete their graduation (field) thesis work.

It may be stated in addition, that students seeking to do Honours in Geology will have to satisfy the Head of the School that they have attained a sufficient standard in their pass course work as to indicate their ability to undertake geological studies at a more advanced level.

School of Applied Psychology

A student wishing to proceed to Honours in Psychology must have completed three full-time or five part-time years of psychology in his pass degree course, and have obtained at least Credit standard in Psychology II and Psychology III in order to be admitted to Honours study.
School of Biological Sciences

Students may read for Honours in the School of Biological Sciences in the subjects of Botany, Zoology, Entomology, Biochemistry and Microbiology. Students wishing to do so must apply to the Head of the School not later than 31st December of the year in which the third year of the full-time course is completed. A student who is admitted to Honours study should have achieved a generally high standard throughout the course and must have majored in the particular discipline in which the study is to be carried out.

It is desirable, but not imperative, for a student to decide as early as possible that he wants to do Honours and should consult appropriate members of the staff for advice on the best course structure for his particular interests.

Honours courses will include research work, lectures and seminars, advanced reading and such additional work as may be prescribed by the Head of the School.

School of Chemistry

Students desiring admission to the Honours course must apply in writing to the Head of the School not later than November 30 of the year in which the third year of the full-time (sixth stage of the part-time) course is completed.

For admission to the Honours Chemistry Course in Science, the applicant must have passed Chemistry III and one other group three subject and have a good academic record before admission will be approved. Students who at the beginning of their third year are already interested in taking Honours in Chemistry are advised to seek guidance from the School about the most appropriate subject to accompany Chemistry III. Generally it is desirable, though not essential, that a student should have taken both Chemistry III and Chemistry III (Supplementary) in the final year.

The major part of the work for Honours will consist of a research project which may be undertaken in any one of the six departments by arrangement with the Head of the School. Honours will, however, not be awarded in any particular branch of the subject but in the subject as a whole. Attendance will be required at such lectures and seminars as the Head of the School directs.
School of Mathematics

There are three different fourth year Honours courses in the School of Mathematics, namely, Pure Mathematics, Applied Mathematics and the Theory of Statistics.

1. Permission must be obtained to enter the fourth year course in Pure Mathematics. Such permission will not usually be granted unless the applicant has passed in Pure Mathematics III (Higher).

2. Permission must be obtained to enter the fourth year course in Applied Mathematics. Such permission will not usually be granted unless the applicant has passed in Applied Mathematics III (Higher) and in Pure Mathematics III or Pure Mathematics III (Higher).

3. Permission must be obtained to enter the fourth year course in the Theory of Statistics. Such permission will not usually be granted unless the applicant has passed in Theory of Statistics II (Higher) and Pure Mathematics III (Higher).

School of Physics

Students wishing to read for Honours in Physics must complete the major sequence, Physics I, Physics II and Physics III, and for acceptance into the Honours course will be expected to have attained a majority of graded passes ("Credit" or "Distinction") in these subjects. Adequate supporting performance in mathematical subjects will also be expected. In preparation for the Honours year, students would normally be expected to take the subjects Physics III and Mathematical Physics in their third year.

Intending candidates for Honours should apply to the Head of the School not later than December 31 in the year in which the third year is completed.

School of Physiology

Students wishing to do an Honours year in Physiology should consult the Head of the School while they are doing Physiology II in the third year of their course—as early in the year as possible but certainly not later than the beginning of the third term.

The requirement for admission to the Honours course is a good academic record during the pass degree course.

The Honours course will include advanced training in experimental physiology and participation in one of the research projects of the School.
The study of psychology as a formal discipline in undergraduate courses is traditional in Australian Universities. Psychology as a subject is concerned with the systematic study of human behaviour, and includes historical, experimental and descriptive features. The School of Applied Psychology offers psychology as a major subject in the full-time Arts Course and in the full-time and part-time Science and Commerce Courses. It also offers a full-time and a part-time undergraduate professional degree course in Applied Psychology.

In the Science course, Psychology I, II and III and Psychology III (Supplementary) may be studied subject to the Science course regulations, and a student who wishes to proceed to honours in the subject must have completed three full courses of psychology in his pass degree and must have obtained at least credit in Psychology II and III in order to be admitted to the honours year.

The course leading to the degree of Bachelor of Science (Applied Psychology) is designed as a professional undergraduate course for the training of psychologists. It may be taken as a full-time or as a part-time course, the full-time course over four years and the part-time course over a minimum of six years. This course has been introduced in order to meet the increasing demands of professional psychologists in the various fields of applied psychology. Two main fields of specialisation will be developed—Industrial and Clinical, and students in their fourth year will choose between these two areas of specialisation.

**APPLIED PSYCHOLOGY COURSES**

The B.Sc. (Applied Psychology) course is offered on a full-time (four years) or on a part-time (six years) basis at pass or honours level with electives in industrial or clinical psychology. For students who commenced before 1963 the old part-time courses of five years (pass) or six years (honours) will continue to operate.
The new courses provide a firm background of psychological theory and of such other sciences as are required for further study (e.g., mathematics and biology), together with a leavening of the Humanities. The later years of the courses lead to increasing specialisation in either industrial psychology or clinical psychology.

The elective in industrial psychology is intended to meet the demand for students who will engage in personnel work in industry. It involves a study of the individual worker and the organisations in which he works and embraces such aspects of this study as job success and failure, job satisfaction and dissatisfaction, industrial motivation, employer-employee relations, acquisition of job skill, conditions affecting job efficiency and the like. These will be the subject of both theoretical and practical work.

The elective in clinical psychology includes basic theoretical and practical training in some of the more common areas of clinical psychology. The various aspects of the specialisation will be concerned with professional training in the diagnosis and assessment of personality and behaviour disorders and their treatment in various fields of counselling. Training is given in case studies and in preventive and therapeutic team work, and research in clinical psychology is also covered.

Details follow for all years of the new full-time and part-time courses. Honours are awarded on the quality of the work performed throughout the course.

**APPLIED PSYCHOLOGY—FULL-TIME COURSE**

Bachelor of Science

**First Year**

(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week for 3 terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.001</td>
<td>Mathematics I</td>
<td>4 — 2</td>
</tr>
<tr>
<td>12.011</td>
<td>Psychology I</td>
<td>3 — 2</td>
</tr>
<tr>
<td>17.001</td>
<td>General Biology</td>
<td>2 — 4</td>
</tr>
<tr>
<td>52.151</td>
<td>History and Philosophy of Science I or</td>
<td>3 — 0</td>
</tr>
<tr>
<td>53.111</td>
<td>Sociology I</td>
<td></td>
</tr>
</tbody>
</table>

**Total** 12 — 8
### Second Year
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.012</td>
<td>Psychology II</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>12.042</td>
<td>Psychology IIa</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>26.501</td>
<td>English</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

*and one of—*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.111</td>
<td>Pure Mathematics II or</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>10.311</td>
<td>Theory of Statistics I or</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>17.601</td>
<td>Physiology and Genetics</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

9 min./ 10 min./
11 max. 12 max.

### Third Year
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.013</td>
<td>Psychology III</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>12.044</td>
<td>Psychology IIIa</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>26.511</td>
<td>History</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

8 — 14

### Fourth Year
(30 weeks’ day course)

**Industrial Course Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.045</td>
<td>Psychology IV (Industrial)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industrial Psychology</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Personnel Techniques</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Counselling Practice</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>26.521</td>
<td>Philosophy</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

6 — 12

**Clinical Course Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.055</td>
<td>Psychology IV (Clinical)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clinical Psychology</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Diagnostic Theory and Procedures</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Counselling Practice</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>26.521</td>
<td>Philosophy</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

6 — 12
### Bachelor of Science

**APPLIED PSYCHOLOGY—PART-TIME COURSE**

**First Year**
(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.001 Mathematics I</td>
<td>4 — 2</td>
</tr>
<tr>
<td>52.151 History and Philosophy of Science I or</td>
<td>3 — 0</td>
</tr>
<tr>
<td>53.111 Sociology I</td>
<td>1 — 1</td>
</tr>
<tr>
<td>26.501 History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 — 21</td>
</tr>
</tbody>
</table>

**Second Year**
(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.011 Psychology I</td>
<td>3 — 2</td>
</tr>
<tr>
<td>17.001 General Biology</td>
<td>2 — 4</td>
</tr>
<tr>
<td>26.511 History</td>
<td>1 — 0</td>
</tr>
<tr>
<td></td>
<td>6 — 6</td>
</tr>
</tbody>
</table>

**Third Year**
(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.601 Physiology and Genetics or</td>
<td>2 — 3</td>
</tr>
<tr>
<td>10.111 Pure Mathematics II or</td>
<td>3 — 2</td>
</tr>
<tr>
<td>10.311 Theory of Statistics I</td>
<td>4 — 3</td>
</tr>
<tr>
<td>12.012 Psychology II</td>
<td>3 — 5</td>
</tr>
<tr>
<td></td>
<td>5 min./ 7 min./</td>
</tr>
<tr>
<td></td>
<td>7 max. 8 max.</td>
</tr>
</tbody>
</table>

**Fourth Year***
(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.042 Psychology IIA</td>
<td>3 — 4</td>
</tr>
<tr>
<td>12.013 Psychology III</td>
<td>4 — 7</td>
</tr>
<tr>
<td></td>
<td>7 — 11</td>
</tr>
</tbody>
</table>

*Day-time attendance for practical work and clinical tutorials required.
### Fifth Year

(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.044</td>
<td>Psychology IIIa</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>26.521</td>
<td>Philosophy</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

### Sixth Year (Industrial)**

(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.045</td>
<td>Industrial Psychology*</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Personnel Techniques*</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Counselling Practice*</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

** OR **

### Sixth Year (Clinical)**

(30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.055</td>
<td>Clinical Psychology*</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Diagnostic Theory and Procedures*</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Counselling Practice*</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

* Co-requisite subjects.

** Day-time attendance for practical work and clinical tutorials required.

In cases where students are unable to satisfy the attendance requirements in the senior years of the degree, the Head of the School may arrange alternative programmes for practical work and clinical tutorials.

### Prizes in Psychology

*The British Psychological Society Australian Branch* Prize in Psychology is awarded annually to a third or later year student. Prize value is $10.
PSYCHOLOGY TEXTBOOKS

12.011 Psychology I
Whittaker, J. O. Students' Workbook to accompany "Introduction to Psychology". Saunders, 1965.

12.012 Psychology
Part A
Part B
Part C

12.013 Psychology
Part A: Statistics III
Part B: Electives
Social Psychology

Abnormal Psychology
or
or
or

Child Psychology and Guidance

Individual Differences
Learning

Perception

Motivation

Psychometrics

Counselling Principles and Practices
Perez, Joseph F. *Counselling Theory and Practice*. Addison-Wesley, 1965.

Human Factors Engineering

Psychological Guidance

Psychopathology
Texts and References to be selected in consultation with Head of the School.

12.042 Psychology IIA

12.044 Psychology IIIA
See 12.013 Part B Electives.

12.045 Psychology IV (Industrial)
Part A: Industrial Psychology and Personnel Techniques
**Part B: Counselling**


**Part C: Social**


Texts and references for other sections of the course will be detailed during lectures.

**12.055 Psychology IV (Clinical)**


Texts and references for other sections of the course will be detailed in lectures.

**12.322A Psychological Assessment**


**12.331 Psychometrics**


**12.512A Social Psychology**


**12.611A Counselling Procedures**

**Part A**


**Part B:**

To be determined in consultation with Head of School.

**12.621A Industrial Psychology and Personnel Techniques**

**Part A**


**Part B**


**12.731 Abnormal and Clinical Psychology**


*Note:* Reference books for all courses will be listed in lectures.
The past few decades have witnessed outstanding developments of those disciplines concerned with living organisms and with the explanation and understanding of the phenomena which they display. Not only are such basic processes as the hereditary mechanisms, the adaption of organisms to the environment, and the interconversions of matter and energy better understood, but considerable progress has been made in the rational exploitation and control of the life phenomena in a wide range of community activity. The availability of employment for the graduate in one or other of the biological sciences has expanded in a spectacular manner in recent years and may well become the most active area of scientific and technological activity in the near future.

As with other groups of related scientific disciplines, the biological sciences increasingly display a convergence and overlap of their boundaries, a situation which has been long realised in this University and assisted by the close administrative ties and the physical proximity of the principal departments concerned with their development. The principal courses offered by the School lie within the framework of the Science course and major sequences to honours level are available in Botany, Zoology, Entomology, Microbiology and Biochemistry. Post-graduate study for the Master of Science degree and for the Doctorate in Philosophy is available in each of the principal areas mentioned above. The regulations of the Science course provide a considerable degree of flexibility in the choice of subjects and the particular vocational interests of students can be met in a large degree. The advice of members of the staff should be sought concerning the best choice of subjects for particular interests.

All the biological major sequences are based on the common triad of Mathematics, Physics and Chemistry, together with General Biology in the first year, and students are advised to bear in mind the increasing dependence of the biological sciences upon the physical sciences. Combinations at advanced levels of Chemistry and Biochemistry with Botany, Zoology, Entomology and Microbiology, enhance the possibilities of subsequent employment of a
stimulating and interesting nature, whether it be in pure or applied research, or in the very wide range of technological fields such as public health, the food industries or agriculture.

**BIOLOGICAL SCIENCES TEXTBOOKS**

17.001 General Biology

17.101 and 17.111 Biochemistry I
Conn and Stumpf. *Outlines of Biochemistry.* Wiley.

17.102 and 17.112 Biochemistry II

17.103 Biochemistry
Conn and Stumpf. *Outlines of Biochemistry.* Wiley.

17.201 Microbiology I

or

("The Microbial World" gives a good general coverage of the subject, but "Textbook of Microbiology" is more comprehensive with greater emphasis on medical microbiology.)

and

17.301 Botany I
Alexopoulos. *Introductory Mycology.* Wiley.

or
Esau. *Anatomy of Seed Plants.* Wiley.

or
Meyer, Anderson and Bohning. *Introduction to Plant Physiology.* van Nostrand.

Beadle, Evans and Carolin. *Handbook of Vascular Plants of the Sydney District and Blue Mountains.*
Srb, Owen and Edgar. *General Genetics.* Freeman, 2nd ed.
17.302 Botany II
Alexopoulos. *Introductory Mycology*. Wiley.
Brewbaker. *Agricultural Genetics*. Prentice-Hall.

17.401 Zoology I

17.402 Zoology II

17.501 Entomology I
Chemistry enters into a great many phases of human activity. In primary industry it plays an essential role in the understanding of the chemistry of plants and animals and in the discovery and manufacture of fertilisers, weedicides and insecticides. Its applications in secondary industry are too numerous to classify with any degree of simplicity ranging as they do from the extraction of metals to the manufacture of drugs, dyes, plastics, glass, paints and synthetic fibres. The chemist may be concerned with matters of public health by way of the analysis of foods and drugs, with defence through a study of rocket fuels, explosives and in many other ways; with the law in relation to the patenting of chemical processes. In short, all things material fall within the purview of chemistry. The needs of chemical industry for men competent to devise and develop new processes and to improve existing ones and for men competent to operate these can best be met by different types of training.

Chemistry forms a part of many undergraduate courses offered by this University. On a full-time basis it is studied for only a year in some courses, but in others it is studied for two, three or even four years. (These figures are doubled for part-time courses.) Courses which include a study of chemistry in excess of one year (full-time) or two years (part-time) are arranged in diminishing order of their basic chemistry content, as follows: Applied Chemistry, Science (Chemistry Major), Industrial Chemistry, Polymer Science, Ceramic Engineering, Food Technology and Chemical Engineering. Textile Technology, Fuel Engineering and Metallurgy courses also include chemistry in the first two years, but since the courses are not essentially chemical in nature, they will not be considered further here. A student whose main interest is chemistry is likely to be a little puzzled when first confronted with this array of courses in which chemistry is a major component and may well be uncertain which course he should do.

The School provides two main undergraduate courses whereby a specialised training in Chemistry may be obtained:
1. The Applied Chemistry Course;
2. The Chemistry Major in Science.

Both courses lead to the B.Sc. degree.

In the emphasis it places on Chemistry, the Applied Chemistry course is unique in Australian Universities. The core of the course consists of instruction in the fundamental principles of inorganic, physical, organic and analytical chemistry at a level which satisfies the requirements for professional chemists.

Towards the end of the course students are given an opportunity to develop their particular interests which may be in any one of the six departments. Through its Departments of Analytical Chemistry, of Nuclear and Radiation Chemistry, and of Applied Organic Chemistry, the School provides unusual opportunities for courses of training in these specialised fields.

The Applied Chemistry Course may be taken either full-time (three years for the pass degree, four years for honours) or part-time (six years for the pass degree, eight years for honours). The subject matter of each full-time year is identical with that of the two corresponding part-time years and transfer from full-time to part-time, or vice versa, is possible. No industrial training is required for either the full-time or part-time course, though it is customary for students taking the part-time course to find employment in some branch of chemical industry. Students who intend to take up chemistry as a career, whether in the academic sphere or in industry, are advised to do the Applied Chemistry course.

Graduates of the School of Chemistry who have taken the Applied Chemistry Course find employment in all the scientific and technical departments of chemical industry and are particularly well suited to employment in the research, control, development and management sections. They also find employment in universities, the C.S.I.R.O., Australian Atomic Energy Commission, Defence Research, Customs, Public Health and other State and Commonwealth Government organisations.

The School also provides courses in Chemistry which form part of the requirements of the Science Course. By taking a double major in Chemistry in the third year of the Science Course (Chemistry III and Chemistry III Supplementary), it is possible to reach a high degree of specialisation in the subject and at the same time to obtain a more substantial background of supporting science subjects. Another possibility is to combine Chemistry
III with a second third-year science subject such as Mathematics III, Biochemistry II or Geology III. Chemistry III combined with Mathematics III will provide a useful basis for research in X-ray crystallography or theoretical chemistry; combined with Geology III, it will be of assistance to those who later wish to specialise in geochemistry. On a full-time basis, the Science Course, like the Applied Chemistry Course, may be taken in three years (pass) and four years (for honours). On a part-time basis, however, the Science Course may, according to the choice of subjects, require one year longer (seven years) than the Applied Chemistry Course.

The Science Course is more suitable for those planning to become teachers of Chemistry at the high school level. This course is also more suitable for those who wish to acquire advanced knowledge of two fields of study or of borderline subjects.

The highest degree of specialisation in chemistry at the undergraduate level may be gained by taking an Honours course (in either Applied Chemistry or in Science) which is aimed mainly at those whose interest is in pure or applied research and/or teaching. For students in Science, it is desirable but not essential that they should do the double major in Chemistry in order to do Honours in Chemistry. Combinations of Chemistry III and Biochemistry II, Mathematics III or Geology III do, however, form a satisfactory foundation for an honours degree in Chemistry. The Honours course, which is taken preferably in one full-time year, is devoted mainly to research and leads to an Honours B.Sc. degree.

The first year of the Applied Chemistry course is identical with other courses in the Faculties of Applied Science, Engineering, Medicine, and Science in that the student must take Chemistry I, Physics I, Mathematics I and one other subject from Engineering I, Geology I, General Biology and Geography I.

Of these four, Engineering I would give the student the widest choice of courses in his second year, should he decide to change his field of study. This applies both to full-time and part-time students.

APPLIED CHEMISTRY — FULL-TIME COURSE

Bachelor of Science

This course may be taken at pass or honours standard. The pass course requires full-time attendance at the University for three years. An additional year is required for the honours course.
### FIRST YEAR
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.001</td>
<td>Physics I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.001</td>
<td>Chemistry I</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>10.001</td>
<td>Mathematics I</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Plus one of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.001</td>
<td>Engineering I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.001</td>
<td>General Biology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>25.511</td>
<td>Geology I*</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>27.001</td>
<td>Geography I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Three field excursions, up to five days in all, are an essential part of the course.

### SECOND YEAR
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.311</td>
<td>Physical Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2.341</td>
<td>Chemical Instrumentation*</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.351</td>
<td>Chemical Calculations</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2.411</td>
<td>Inorganic Chemistry</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.441</td>
<td>History of Chemistry</td>
<td>1</td>
<td>0†</td>
</tr>
<tr>
<td>2.511</td>
<td>Analytical Chemistry</td>
<td>2</td>
<td>3†</td>
</tr>
<tr>
<td>2.611</td>
<td>Organic Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>10.031</td>
<td>Mathematics</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>26.501</td>
<td>English or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26.571</td>
<td>An Introduction to Modern Drama</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

*Alternative subject 1.212 Physics.
†Term 2 only.
‡Hours for Term 2: 1 — 3.

### THIRD YEAR
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.322</td>
<td>Physical Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2.361</td>
<td>Applied Chemistry</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2.422</td>
<td>Inorganic Chemistry</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.522</td>
<td>Analytical Chemistry</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.622</td>
<td>Organic Chemistry</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>22.131</td>
<td>Industrial Chemistry</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Two 30-hour General Studies Electives</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

*Plus one of (see overleaf)*
Students desiring admission to the Honours course must apply in writing to the Head of the School not later than November 30 of the year in which the third year of the full-time (sixth stage of the part-time) course is completed.

The applicant must pass the final year of the Applied Chemistry Course and have a good academic record before admission will be approved.* The applicant should indicate in which of the following branches of the subject he would prefer to undertake research:

(1) Analytical
(2) Applied Organic
(3) Inorganic
(4) Nuclear and Radiation
(5) Organic
(6) Physical Chemistry

APPLIED CHEMISTRY—PART-TIME COURSE
Bachelor of Science

The part-time course in Applied Chemistry is equivalent to the full-time course and extends over six part-time years, leading to the degree of Bachelor of Science. Honours may be awarded on the completion of an additional year of full-time study or an additional two years of part-time study.

The part-time course has been designed for students employed in the chemical industry but employment in this industry is not obligatory for entrance to the course.

* For admission to the Honours Chemistry Course in Science, the applicant must have passed Chemistry III.
FIRST AND SECOND YEARS  
(30 weeks' part-time course) 

Two of the following subjects will be taken in the first year and the other two in the second year (as directed).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.001</td>
<td>Physics I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.001</td>
<td>Chemistry I</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>10.001</td>
<td>Mathematics I</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

Plus one of—

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.001</td>
<td>Engineering I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.001</td>
<td>General Biology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>25.511</td>
<td>Geology I*</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>27.001</td>
<td>Geography I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Three field excursions, up to five days in all, are an essential part of the course.

THIRD YEAR  
(30 weeks' part-time course) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.311</td>
<td>Physical Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2.351</td>
<td>Chemical Calculations</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2.441</td>
<td>History of Chemistry</td>
<td>1</td>
<td>0*</td>
</tr>
<tr>
<td>2.511</td>
<td>Analytical Chemistry</td>
<td>2</td>
<td>3†</td>
</tr>
<tr>
<td>10.031</td>
<td>Mathematics</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

* Term 2 only.  
† Hours for Term 2: 1 — 3.

FOURTH YEAR  
(30 weeks' part-time course) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject</th>
<th>Lec.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.341</td>
<td>Chemical Instrumentation*</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.411</td>
<td>Inorganic Chemistry</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2.611</td>
<td>Organic Chemistry</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>26.501</td>
<td>English or I</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>26.571</td>
<td>An Introduction to Modern Drama</td>
<td>5</td>
<td>7½</td>
</tr>
</tbody>
</table>

* Alternative subject—Physics 1.212.
### FIFTH YEAR

**FACULTY OF SCIENCE**

#### (30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.322 Physical Chemistry</td>
<td>2 — 3</td>
</tr>
<tr>
<td>2.422 Inorganic Chemistry</td>
<td>1 — 2</td>
</tr>
<tr>
<td>2.522 Analytical Chemistry</td>
<td>1 — 2</td>
</tr>
<tr>
<td>22.131 Industrial Chemistry (Processes)</td>
<td>1½ — ½</td>
</tr>
<tr>
<td>One 30-hour General Studies Elective</td>
<td>1 — 0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6½ — 7½</strong></td>
</tr>
</tbody>
</table>

### SIXTH YEAR

#### (30 weeks’ part-time course)

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
<th>Lec. Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.361 Applied Chemistry</td>
<td>1 — 0</td>
</tr>
<tr>
<td>2.622 Organic Chemistry</td>
<td>2 — 5</td>
</tr>
<tr>
<td>One 30-hour General Studies Elective</td>
<td>1 — 0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5 — 8</strong></td>
</tr>
</tbody>
</table>

#### Plus one of—

- 2.211 Applied Organic Chemistry
- 2.221 Applied Organic Chemistry (Food)
- 2.331 Applied Physical Chemistry
- 2.433 Inorganic Chemistry III
- 2.533 Analytical Chemistry III
- 2.811 Nuclear and Radiation Chemistry

### Honours in Applied Chemistry

Students desiring to take Honours must apply to the Head of the School not later than November 30 of the year in which the third year of the full-time (sixth stage of the part-time) course is completed.

The requirement for admission to the Honours course is a sufficiently meritorious record in the work of the pass degree.

The major part of the work for Honours will consist of a research project which may be undertaken in any one of the six departments by arrangement with the Head of the School. However, honours will not be awarded in any particular branch of the subject but in the subject as a whole. Attendance will be required at such lectures and seminars as the Head of the School directs.
Applied Chemistry Prizes

In past years it has been the custom of the School of Chemistry to award prizes for various stages and subjects of the Applied Chemistry Course and in other subjects under the control of the School. This practice will be continued this year.

The list of donors, to whom we express our gratitude, includes the following organisations:

*The N.S.W. Department of Technical Education.*
*Australian Glass Manufacturers Co. Pty. Ltd.*
*Borden Chemical Company (Aust.) Pty. Ltd.*
*Chamber of Manufactures of N.S.W.*
*C.S.R. Chemicals Pty. Ltd.*
*Drug Houses of Australia (N.S.W.) Pty. Ltd.*
*Holbrooks A/asia Pty. Ltd.*
*Inglis Hudson Bequest.*
*Merck Sharp and Dohme (Aust.) Pty. Ltd.*
*The Nestlé Company (Australia) Ltd.*
*Smith, Kline and French Laboratories (Aust.) Ltd.*
*Tooheys Limited.*
*Tooth and Company Ltd.*
*Unilever Australia Pty. Ltd.*
*University of New South Wales Chemical Society.*
*University of New South Wales Science Association.*

CHEMISTRY TEXT AND REFERENCE BOOKS

2.001 Chemistry I

**TEXTBOOKS**

**REFERENCE BOOKS** (for preliminary or supplementary reading)

2.001/1 Chemistry I, Part I

Not operating in 1967.
2.001/2 Chemistry I, Part II

TEXTBOOKS

REFERENCE BOOKS

2.002 Chemistry II

For Physical Section, see under 2.311.
For Organic Section, see under 2.611.

*A. Inorganic Section*

TEXTBOOK
Graddon. *An Introduction to Coordination Chemistry*.

REFERENCE BOOKS
Bailar. *Chemistry of the Coordination Compounds*.
Pauling. *Nature of the Chemical Bond*.
Sienko and Plane. *Physical Inorganic Chemistry*.
Basolo and Johnson. *Introduction to Coordination Chemistry*.
Lee. *Concise Inorganic Chemistry*.

*B. Analytical Section*

TEXTBOOK

REFERENCE BOOKS

2.003 Chemistry III

For Physical Section, see under 2.322.
For Organic Section, see under 2.622.
For Analytical Section, see under 2.522.

*Inorganic Section*

REFERENCE BOOKS
Bailar. *Chemistry of the Coordination Compounds*.
Pauling. *Nature of the Chemical Bond.*
Wells. *Structural Inorganic Chemistry.*
Sidgwick. *Chemical Elements and their Compounds, Vols. I and II.*
Dwyer and Mellor. *Chelating Agents and Metal Chelates.*

**2.022 Chemistry II M**
As for 2.002 Chemistry II, omitting Organic Section.

**2.042 Chemistry II A**
For Physical Section, see under 2.311.
For Organic Section, see under 2.611.

**2.053 Chemistry III (Supplementary)**

A. Physical Chemistry Major

**TEXTBOOK**

**REFERENCE BOOKS**

B. Inorganic Chemistry Major

**REFERENCE BOOKS**
Pauling. *Nature of the Chemical Bond.*
Lewis and Wilkins. *Modern Co-ordination Chemistry.*
Rossotti and Rossotti. *Stability Constants.*
Dwyer and Mellor. *Chelating Agents and Metal Chelates.*
C. Organic Chemistry Major
See Reference Books listed under 2.622.

D. Nuclear and Radiation Chemistry Major

TEXTBOOKS
See under 2.811.

REFERENCE BOOKS
And as for 2.811.

2.211 Applied Organic Chemistry

REFERENCE BOOKS
Knox. *Gas Chromatography.*
Heftmann. *Chromatography.*
Carney. *Laboratory Fractional Distillation.*
Flory. *Principles of Polymer Chemistry.*
Moore. *Introduction to Polymer Chemistry.*
Laidler. *Introduction to the Chemistry of Enzymes.*
White, Handler, Smith and Stetton. *Principles of Biochemistry.*
Rosenberg. *Chemistry and Physiology of the Vitamins.*
Pinder. *Chemistry of the Terpenes.*
Kharasch. *Organic Sulphur Compounds.*
Lundberg. *Autoxidation and Autoxidants,* Vols. I and II.

2.221 Applied Organic Chemistry (Food)

REFERENCE BOOKS
Gibbs. *Optical Methods of Analysis.*
Dehalay. *Instrumental Analysis.*
Lederer and Lederer. *Chromatography.*
Alexander and Block. *The Separation and Isolation of Proteins.*
Laidler. *Introduction to the Chemistry of Enzymes.*
Kharasch. *Organic Sulphur Compounds.*
Fieser and Fieser. *Natural Products Related to Phenanthrene.*
Deuel. *Lipids,* I, II and III.
Brown and Zerban. *Sugar Analysis.*
Walton. *Principles and Methods of Chemical Analysis.*
Goodwin. *Comparative Biochemistry of the Carotenoids.*
Karrer and Jucker. *Carotenoids.*
Mitchell and Smith. *Aquametry—Applications of the Karl Fischer Reagent.*
Harris and Thimann. *Vitamins and Hormones. Advances in Research and Applications.*
*Advances in Protein Chemistry Series.*
*Advances in Carbohydrate Chemistry Series.*
2.311 Physical Chemistry I

TEXTBOOKS

REFERENCE BOOKS

2.322 Physical Chemistry II

TEXTBOOKS

and

or
Harvey. *Introduction to Nuclear Physics and Chemistry*. Prentice-Hall.

or

REFERENCE BOOKS

2.331 Applied Physical Chemistry

TEXTBOOKS

REFERENCE BOOKS

2.341 Chemical Instrumentation

TEXTBOOKS
REFERENCE BOOKS

2.351 Chemical Calculations

TEXTBOOKS

REFERENCE BOOKS

2.361 Applied Chemistry

REFERENCE BOOKS
Corley. Successful Commercial Chemical Development. Wiley.

2.411 Inorganic Chemistry I

TEXTBOOKS
Graddon. An Introduction to Co-ordination Chemistry.
Vogel. Textbook of Qualitative Analysis.

REFERENCE BOOKS
As for 2.002 Inorganic Section, plus
Wells. Structural Inorganic Chemistry.

2.422 Inorganic Chemistry II

REFERENCE BOOKS
Bailar. Chemistry of Co-ordination Compounds.
Wells. Structural Inorganic Chemistry.
Sidgwick. Chemical Elements and their Compounds, Vols. I and II.
Remy. Treatise on Inorganic Chemistry, Vols. I and II.
Durrant and Durrant. Advanced Inorganic Chemistry.
Dwyer and Mellor. Chelating Agents and Metal Chelates.
Sienko and Plane. Physical Inorganic Chemistry.
Barnard. Theoretical Basis of Inorganic Chemistry.
Lee. Concise Inorganic Chemistry.
2.433 Inorganic Chemistry III — Special

REFERENCE BOOKS
Lewis and Wilkins. *Modern Co-ordination Chemistry.*
Sidgwick. *Chemical Elements and their Compounds,* Vols. I and II.
Wells. *Structural Inorganic Chemistry.*
Durrant and Durrant. *Advanced Inorganic Chemistry.*
Rossotti and Rossotti. *Stability Constants.*
Dwyer and Mellor. *Chelating Agents and Metal Chelates.*

2.451 Inorganic/Analytical Chemistry

For Inorganic Section, see 2.411.

Analytical Section

TEXTBOOK

REFERENCE BOOKS

2.511 Analytical Chemistry I

TEXTBOOKS

REFERENCE BOOKS

2.522 Analytical Chemistry II

TEXTBOOKS

REFERENCE BOOKS
Strouts, Gilfillan and Wilson (Eds.). *Analytical Chemistry,* 3 vols., Oxford University Press, 2nd ed.

2.533 Analytical Chemistry III

REFERENCE BOOKS

### 2.611 Organic Chemistry I

**TEXTBOOKS**

   OR

   OR
   OR

### 2.622 Organic Chemistry II

**TEXTBOOKS**


3. and one of the following

**REFERENCE BOOKS**

2.811 Nuclear and Radiation Chemistry

TEXTBOOKS
Carswell. *Introduction to Nuclear Chemistry*. Elsevier.

OR

OR

REFERENCE BOOKS


Courses in Physiology for students in the Faculty of Science were commenced in 1963. During the second and third years of their B.Sc. course, students may take Physiology I and Physiology II. Students reaching an adequate standard in these subjects may proceed to a B.Sc. degree with Honours by taking Physiology III during the fourth year of the course. For the present, Physiology will only be available as a day course.

Physiology I is designed as a course in General Physiology, and uses as its main source of illustration examples from the field of mammalian physiology. This course is self-contained and apart from serving as an introductory course to Physiology II, should be useful for students in other biological fields. Students wishing to enrol in Physiology I must have completed Chemistry I, Physics I and General Biology.

Physiology II is a more advanced course in physiology, and is orientated towards the more biophysical aspects of physiology. Students taking Physiology II should have passed in the subject Biochemistry I. Any student who wishes to proceed to Physiology II and has not done Biochemistry I can proceed by arrangement with the Head of the School, provided he has passed in either Physics II or Chemistry II.

Lecture, laboratory and tutorial arrangements for Physiology subjects are as follows:—

**73.011 Physiology I**

<table>
<thead>
<tr>
<th>Hours per week for 3 terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
</tr>
<tr>
<td>Laboratory</td>
</tr>
<tr>
<td>Tutorials</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### 73.012 Physiology II

<table>
<thead>
<tr>
<th></th>
<th>Hours per week for 11 weeks (Term 1)</th>
<th>Hours per week for 19 weeks (Terms 2 and 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Laboratory</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Tutorials</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

### PHYSIOLOGY TEXT BOOKS

#### 73.011 Physiology I

#### 73.012 Physiology II

**OR**
GEOLOGY

FOR STUDENTS IN THE SCIENCE COURSE

Students may major in Geology in the Science course (see the regulations governing this course). This course is available on both a full-time and a part-time basis and leads to the degree of Bachelor of Science, Pass or Honours. Students majoring in Geology will complete the following subjects:—

First year—25.511 Geology I (as for the Applied Geology degree course).

Second year—25.512 Geology II (as for the Applied Geology degree course).

Third year—25.513 Geology III (as for the Applied Geology degree course).

In addition, students in this course may take a second Geology subject in their third year, 25.521 Geology III (Supplementary). This course covers fields not dealt with in other Geology courses and advanced or specialized treatment of topics studied earlier. Section (a) of the course is compulsory and contains Geology of Fuels, Geomorphology and Photogeology, Structural Geology, Oceanography, Geochemistry and Geophysics. Candidates may select either Section (b) consisting of Clay Mineralogy and Mineragraphy, or Section (c) consisting of Stratigraphy and Palaeontology, to complete the course.

Honours in Geology

Full-time students in the Faculty of Science who have completed the two third year Geology subjects and part-time students who have completed course requirements up to the end of the sixth year and whose programme includes the two third year Geology subjects may apply to the Head of the School of Applied Geology to read for an Honours degree in Geology. Students who have majored in either Physics and Geology or Chemistry and Geology, may also be admitted with a view to studies in geophysics or geochemistry respectively.
The Honours course will consist of:

A short field assignment with appropriate work in the laboratory on material collected, the results of both the field and laboratory investigations to be presented in a graduation thesis. Advanced lectures, practical work and seminars. Short laboratory assignments on specific problems may be given.

Further details of the Honours course may be had from the Head of School.

Full-time students will cover the Honours work in the fourth year of the course. Part-time students will be required to commence their field thesis work at the end of the sixth year of their course and advanced laboratory assignments will be done in the eighth year along with the further work necessary to complete the field thesis work.

Students seeking to do Honours in Geology will have to satisfy the Head of the School that they have attained a sufficient standard in their pass course work to indicate their ability to undertake geological studies at a more advanced level.

GEOLOGY TEXT AND REFERENCE BOOKS

25.511 Geology I

TEXTBOOKS
Longwell and Flint. Introduction to Physical Geology. Wiley.

REFERENCE BOOKS
Dunbar. Historical Geology. Wiley.
Morley Davies. An Introduction to Palaeontology.

25.512 Geology II

(a) Petrology I

TEXTBOOKS

REFERENCE BOOKS
Harker. Petrology for Students.
Hatch, Wells and Wells. The Petrology of the Igneous Rocks.
Turner and Verhoogen. *Igneous and Metamorphic Petrology.*
Harker. *Metamorphism.*

(b) Palaeontology I

**TEXTBOOK**
*OR*

**REFERENCE BOOKS**

(c) Stratigraphy I

**TEXTBOOK**
Krumbein and Sloss. *Stratigraphy and Sedimentation.* 2nd ed.

**REFERENCE BOOKS**
Arnold, 1950.
Shrock. *Sequence in Layered Rocks.*

(d) Mineralogy II

**TEXTBOOKS**
Phillips. *An Introduction to Crystallography.*
Hurlbut (ed.). *Dana's Manual of Mineralogy.*

**REFERENCE BOOK**

25.513 Geology III

**Petrology II**

**TEXTBOOK**

**REFERENCE BOOKS**
Turner and Verhoogen. *Igneous and Metamorphic Petrology.*
Harker. *Metamorphism.*

**Stratigraphy II**

**REFERENCE BOOKS**
Stratigraphical Palaeontology
TEXT BOOKS
Von Koenigswald. The Evolution of Man.

Mineralogy III
REFERENCE BOOKS

Geophysics I
TEXT BOOK

REFERENCE BOOKS
Heiskanen and Vening Meinesz. The Earth and its Gravity Field.

Structural Geology I
TEXTBOOKS

REFERENCE BOOKS

Economic Geology
(i) Coal
TEXTBOOK

REFERENCE BOOK
Francis. Coal. Its Formation and Composition.
(ii) Oil

**TEXTBOOK**


**REFERENCE BOOK**


(iii) Ore Deposits

**REFERENCE BOOKS**


---

**25.514 Geology IV**

**Mining Geology**

**TEXT BOOK**


**REFERENCE BOOK**

McKinstry. *Mining Geology*. Prentice-Hall.

**Photogeology**

**REFERENCE BOOKS**


**Geophysics II**

**TEXT BOOKS**


**REFERENCE BOOKS**


**Petroleum Engineering**

**REFERENCE BOOK**

Uren. *Petroleum Production Engineering Development*. 1
25.521 Geology III (Supplementary)

Oceanography
TEXT BOOK

REFERENCE BOOKS
King. *Introduction to Oceanography*. McGraw-Hill.

Palaeontology II
TEXTBOOK

REFERENCE BOOKS

Stratigraphy III
See list for Stratigraphy II (25.513)

Structural Geology II
TEXT BOOK

REFERENCE BOOK
As for Structural Geology I (25.513).

Geophysics II
As for Geophysics II (25.514).

Geochemistry
TEXT BOOK

REFERENCE BOOKS
Abelson. *Researches in Geochemistry*.
Goldschmidt. *Geochemistry*.
Smales and Wager. *Methods in Geochemistry*.

Mineralogy
TEXT BOOKS

REFERENCE BOOKS

Clay Mineralogy
REFERENCE BOOKS
Throughout Australia and, in fact, throughout the world, there is an extreme shortage of mathematicians in universities, in industry, in research establishments and in schools. Employment can be found for mathematicians with almost every type of qualification.

Traditionally, mathematics is classified into Pure Mathematics, Applied Mathematics and Statistics. The classification is not a very sharp one and there is considerable overlap and interaction between the three branches.

The Pure Mathematician is concerned with the study of mathematics for its own sake, irrespective of (though often with an eye on) possible applications in the natural, social or technical sciences and in industry. The main avenues of employment for a Pure Mathematician are the Universities, the teaching services, and some research establishments such as the C.S.I.R.O. The growth of population in Australia has resulted in a large increase in the enrolments of Australian Universities and the shortage of mathematicians at the Universities is desperate. A student who graduates with a good honours B.Sc. degree should find little difficulty in becoming a university lecturer after three years as a teaching fellow while working for a Ph.D.

In the past the employment of mathematicians in Australian industry and commerce was rather uncommon; however, over the last few years there has been a remarkable change, corresponding to the general recognition of the desirability of making quantitative what was previously mere qualitative. Amongst many reasons responsible for the change in the employment picture, one of the most important is the advent of high speed computers, which have made possible the detailed mathematical analysis of complex practical situations which could not have been carried out without them.

For example, it is now generally recognised that every reasonably large establishment should employ a statistician or team of statisticians. There must be efficient and well designed supervision
of the quality and testing of products. The analysis of sales and business methods must be in the hands of experts. Statisticians are also found in many research establishments, in government departments, in industry, in the C.S.I.R.O., and in the Universities, where they are concerned with the design of experiments and analyses of the results obtained. Further, mathematically oriented statisticians may spend their time on the invention of important mathematical descriptions of physical and social phenomena. Mathematical relations governing the behaviour of electricity, energy and satellites, for example, are well known; it is not so well known, however, that other mathematical theories are being developed in nearly every field of endeavour by persons trained in statistical theory and probability: for example, in public works for statistical models to assisting the design of dams; in sociology for theories explaining migration; and in biology for theories of inheritance. Students interested in working in these fields should study the courses in Theory of Statistics.

Applied Mathematics consists of the application of mathematical methods to the study of nature. In different Australian universities, different fields of study are emphasised, but in each case the study of nature and her laws is the main purpose, the mathematical technique being the means to this end. In this Department the main field of study is modern theoretical physics, with an emphasis on quantum mechanics, nuclear theory, and statistical mechanics. However, other branches of Applied Mathematics are included in the course, such as electro-magnetic theory, classical dynamics, mathematical hydrodynamics and aerodynamics, theory of elasticity and solid state theory. In this general field, the normal qualification for independent research and for university employment, is a Ph.D. degree, following upon an Honours B.Sc. degree. The Department of Applied Mathematics includes provision for this full course. Furthermore, it is highly desirable for young graduates in this field who have recently qualified for a Ph.D. degree to go overseas for some time in order to widen their experience. Overseas contacts exist, and every effort is made to place graduates suitably.

One of the spectacular aids to industry and research is the high-speed computer. It requires skilled training to maintain and programme for a high-speed machine costing many hundreds of thousands of pounds. The number of persons in Australia qualified to take charge of a large machine is quite small. A graduate with satisfactory attainments in this field is assured of a well-paid and
interesting position. The courses in Applied Mathematics and Statistics include training in programming for the digital computers and in numerical analysis. Students will have considerable practice on the university's computers.

It must not be thought that an honours degree is necessary for success in all these fields. Pass degrees are satisfactory for a variety of positions in government departments, commercial or industrial organizations and experimental laboratories, but, of course, an honours degree would in almost all cases give priority.

The student will notice from the comments following this preamble that the courses in Theory of Statistics and Applied Mathematics may be so linked with the Pure Mathematics course that a change from one of these to Pure Mathematics is possible at any stage.

THE COURSES AND SUBJECTS PROVIDED BY THE SCHOOL

The School of Mathematics provides courses at the Pass and Honours levels in Pure Mathematics, Applied Mathematics and Theory of Statistics. Full details of the subjects and their relations with other subjects in the Science Course appear in the University Calendar. Any student who feels that he does not understand the situation should consult one of the enrolment officers of the school.

HONOURS COURSES IN MATHEMATICS

The Honours courses require four years of study. In the fourth year the student must devote his full time to his chosen subject and to a course in Humanities.

There are three different fourth year Honours courses in the School of Mathematics, namely: Pure Mathematics, Applied Mathematics and the Theory of Statistics. The requirements for entry to fourth year mathematics courses are indicated below.

(a) Pure Mathematics

Permission must be obtained to enter the fourth year course in Pure Mathematics. Such permission is not likely to be granted unless the applicant has passed in Pure Mathematics III (Higher).

(b) Applied Mathematics

Permission must be obtained to enter the fourth year course in Applied Mathematics. Such permission is not likely to be granted
unless the applicant has passed in Applied Mathematics III (Higher) and in Pure Mathematics III.

(c) Theory of Statistics

Permission must be obtained to enter the fourth year course in the Theory of Statistics. Such permission is not likely to be granted unless the applicant has passed in Theory of Statistics II (Higher) and Pure Mathematics III (Higher).

If a student is studying for an Honours degree in either Theory of Statistics or Applied Mathematics and for some reason finds this is unsuitable, he may turn his interest to Pure Mathematics.

All students, whether studying for Honours or not, will attend Mathematics I during the first year. Any student interested in gaining an Honours degree should consult one of the professors in the School of Mathematics during his first year. He should certainly have an interview before enrolling in the second year.

It should be noted that transfer from the Higher level to the ordinary level of the various mathematical subjects can be made at any time if the student feels that he has made a mischoice. Transfer from ordinary courses to Higher courses will leave the student with an almost impossible task and could only be made in exceptional circumstances.

PASS COURSES

Except for students who wish to take Theory of Statistics II, there are few restrictions on the choice of subjects. Naturally, there is the general rule that the first stage of a sequence of subjects must precede later stages.


Though there is no regulation to demand it, students who wish to specialise in Applied Mathematics are strongly advised to take Pure Mathematics III if they wish to attempt Applied Mathematics III in the third year. This would mean, of necessity, the inclusion of five mathematical subjects for the degree.

MATHEMATICS AS A SUBSIDIARY SUBJECT

In order to gain a "major" in Mathematics, a student should include in his course at least five subjects offered by the School
of Mathematics. Students whose main interests lie in other fields will not desire to include so much Mathematics.

If it is intended that only three mathematical subjects are to be taken, then Mathematics I, Pure Mathematics II and Pure Mathematics III would be a sequence providing some depth. However, consideration should be given to the inclusion of Theory of Statistics I or Applied Mathematics II. These are second year (Group II) subjects. The combination of at least one of these with Pure Mathematics II gives a broader coverage at somewhat less depth than Pure Mathematics III.

SCHOOL TEACHERS

There is no doubt that in order to be well qualified as a high school teacher of mathematics it is desirable that Mathematics I, Pure Mathematics II and Pure Mathematics III should be passed, and that two other subjects should be selected from the Theory of Statistics or Applied Mathematics sequences. This extra work will broaden the prospective teacher's outlook and will certainly improve his teaching work.

Those who feel that they may be interested in proceeding to a higher degree after graduation are advised to attempt some of the courses at the higher level.

STUDENTS WITH LOW MATHEMATICAL QUALIFICATIONS

Students who have only Mathematics III at the Leaving Certificate or who have been inadequately prepared even though they have passed both Mathematics I and II, should see that they do not fall behind the class. Attention is directed to the Bridging Courses in Mathematics given over the University of N.S.W. Radio Station VL2UV. Tutorial time is provided by the School in Mathematics I. Students should use these tutorial periods to obtain advice on supplementary reading to make up any deficiencies in their pre-university training. If, after receiving this advice, the student cannot keep up with the class, he should consult a senior member of the staff of the School of Mathematics.

STUDENTS TRANSFERRING FROM OTHER COURSES

In some cases the mathematical subjects of the Science Course differ quite considerably from the mathematics taught to students following other courses (e.g., Engineering). Students transferring
to the Science Course and wishing to obtain credit for work done in previous courses should make application through the Admissions Office as early as possible. The staff of the School will advise students in such cases but this does not relieve the student of the responsibility of making an early application through the correct channels.

SUBJECTS SUBSIDIARY TO MATHEMATICS

As mentioned above, a student wishing to major in Mathematics must pass other Science subjects in accordance with Science Course regulations. In this connection it is worth noting that the Applied Mathematics Course has a considerable content of mathematical physics and there is no doubt that Physics I and/or Physics II would assist the student.

Mathematics Prizes

There are at present available prizes of $20 each in the subjects Theory of Statistics I, Theory of Statistics II and Theory of Statistics III, from funds obtained through the Department of Statistics; also a prize of $20 and a year's subscription to the Statistical Society of Australia, New South Wales Branch, from that Society in the subject Theory of Statistics III.

MATHEMATICS TEXT AND REFERENCE BOOKS

10.001 Mathematics I

TEXTBOOKS
Thomas, G. B. Calculus. Addison-Wesley.

REFERENCE BOOKS
Smith, W. K. Limits and Continuity. (Collier-Macmillan) (Paperback).
Whitesitt, J. E. Principles of Modern Algebra. Addison-Wesley.

SUPPLEMENTARY READING LIST
10.001 Mathematics I (Higher)
TEXTBOOKS
As for 10.001 above, but in addition

10.031 Mathematics
TEXTBOOKS

REFERENCE BOOKS

10.111 Pure Mathematics II
TEXTBOOKS

REFERENCE BOOKS
Halmos, P. R. *Finite Dimensional Vector Spaces*. Van Nostrand.
Pierce, B. O. *A Short Table of Integrals*. Ginn.

10.112 Pure Mathematics III
TEXTBOOKS
Birkhoff, G. and MacLane, S. *A Survey of Modern Algebra*. Macmillan.
Sneddon, I. N. *Special Functions of Mathematical Physics and Chemistry*. Oliver and Boyd.

REFERENCE BOOKS
Klein, F. *Famous Problems in Elementary Geometry*. Dover.
Van der Waerden, B. L. *Modern Algebra*. Ungar.
10.121 Pure Mathematics II (Higher)

TEXTBOOKS
Estermann, T. *Complex Numbers and Functions*. Athlone.

REFERENCE BOOKS
Birkhoff, C. and MacLane, S. *A Survey of Modern Algebra*. Macmillan.
Kaplan, W. *Advanced Calculus*. Addison-Wesley.
Van der Waerden, B. L. *Modern Algebra*. Ungar.

10.122 Pure Mathematics III (Higher)

TEXTBOOKS
Herstein, I. N. *Topics in Algebra*. Blaisdell.

REFERENCE BOOKS
Ahlfors, L. V. *Complex Analysis*. McGraw-Hill.
Klein, F. *Famous Problems in Elementary Geometry*. Dover.
Munroe, M. E. *Introduction to Measure and Integration*. Addison-Wesley.
Van der Waerden, B. L. *Modern Algebra*. Ungar.
Webster, A. C. *Partial Differential Equations in Mathematical Physics*. Dover.
Cartan, R. *Elementary Theory of Analytic Functions of One and Several Complex Variables*. Addison Wesley.

10.211 Applied Mathematics II

TEXTBOOKS

REFERENCE BOOKS
10.221 Applied Mathematics II (Higher)

**TEXTBOOKS**
Blackie, 1964.

**REFERENCE BOOKS**

10.212 Applied Mathematics III

**TEXTBOOKS**
Merzbacher, E. *Quantum Mechanics*. Wiley Toppan.

**REFERENCE BOOKS**
Interscience, 1953.

10.222 Applied Mathematics III (Higher)

**TEXTBOOKS**
As for 10.212 above, but in addition

**REFERENCE BOOKS**
10.311 Theory of Statistics I
10.321 Theory of Statistics I (Higher)

INTRODUCTORY READING
Tippett, L. H. C. *Statistics*. Oxford University Press.

TEXTBOOKS

REFERENCE BOOKS
Goldberg, S. *Probability: An Introduction*. Prentice Hall.
Pearson, E. S. and Hartley, H. O. *Biometrika Tables for Statisticians*. Cambridge.

10.312 Theory of Statistics II
10.322 Theory of Statistics II (Higher)

INTRODUCTORY READING

TEXTBOOKS
Pearson, E. S. and Hartley, H. O. *Biometrika Tables for Statisticians*. Cambridge.

REFERENCE BOOKS
Bailey, N. J. T. *The Elements of Stochastic Processes with Applications to the Natural Sciences*. Wiley.
Finney, D. J. *Statistical Methods for Biological Assay*. Griffin.
Kempthorne, O. *The Design and Analysis of Experiment*. Wiley.
10.323 Theory of Statistics III

TEXT BOOKS
As for 10.322.

REFERENCE BOOKS
Davies, O. L. (ed.) *Design and Analysis of Industrial Experiments*. Oliver and Boyd.
Fraser, D. A. S. *Non Parametric Methods*. Wiley.
Kempthorne, O. *The Design and Analysis of Experiment*. Wiley.
Kendall, M. G. *A Course in Multivariate Analysis*. Griffin.
Kullback, S. *Information and Statistics*. Wiley.
Scheffé, H. *The Analysis of Variance*. Wiley.
Takacs, L. *Stochastic Processes*. Methuen.
Wald, A. *Sequential Analysis*. Wiley.
Wald, A. *Statistical Decision Functions*. Wiley.

10.331 Statistics

TEXT BOOKS
Miller, I. and Freund, J. *Probability and Statistics for Engineers*. Prentice Hall.
*Statistical Tables*.

REFERENCE BOOKS
SCHOOL OF PHYSICS

It may be fitly said that the science of Physics underlies all experimental science. It is by the work of physicists that the deepest present understanding of the inanimate world around us has been attained; and it is only with comprehension of their physical aspects that the nature and qualities of living (and of thinking) beings can be properly appreciated. Moreover, principles and techniques of Physics are to be seen everywhere incorporated in the technology on which modern civilisation is based.

Thus, a study of Physics leading to some acquaintance with its elements is suitable for inclusion in any curriculum of study. A good working knowledge of at least the older-established parts of Physics is an essential item for engineers and technologists and indeed for those pursuing any other branch of experimental pure science. This school has, therefore, as one of its principal functions, the provision of such courses for the benefit of those not intending to follow a professional career in Physics.

However, the main objective of the School is the education and professional training of physicists. The pass degree course offered is one which seeks to give a broad and balanced treatment of all branches of Physics, without specific emphasis on any branch or topic which may be temporarily prominent. This course precedes an Honours course in which the student's work will be to some extent specialised in certain fields. These studies are provided for within the framework of the Science Course, as sequences which are appropriate for students seeking qualification as professional physicists, whether they intend to engage in research or industrial practice, or to become teachers of Physics.

For a pass degree with a major in Physics it is necessary to complete Physics I, Physics II, and Physics III, Mathematics I is pre-requisite for Physics II, and Pure Mathematics II for Physics III. The Science Course regulations also require the student to complete four other science subjects for a pass degree. The common First Year regulations require Chemistry I and one other Group I subject to comprise two of these four; the remaining
two would normally be one other Group II subject plus one other Group III subject.

The following programmes show typical alternatives, any of which, together with the prescribed humanities subjects, complete requirements for a pass degree.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
<th>THIRD YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics I</td>
<td>Physics II</td>
<td>Physics III</td>
</tr>
<tr>
<td>Mathematics I</td>
<td>Pure Mathematics II</td>
<td>Mathematical Physics</td>
</tr>
<tr>
<td>Chemistry I</td>
<td>Chemistry II</td>
<td>or</td>
</tr>
<tr>
<td>Engineering I</td>
<td>or</td>
<td>Pure Mathematics III</td>
</tr>
<tr>
<td></td>
<td>Theory of Statistics I</td>
<td></td>
</tr>
</tbody>
</table>

The normal preparation for Physics IV (Honours) is the study of Physics III and Mathematical Physics in the Third Year. Students intending to study for Honours and/or proceed to a higher degree should include these subjects in their programme.

**Physics Prizes**

A prize of $50 is offered annually by the lecturing staff of the School of Physics to the student who most distinguishes himself in the subject Physics III.

The G. P. Falls Prize of $20 is offered annually by Mrs. Falls (in memory of her husband who was a lecturer in the School of Physics) to the student who most distinguishes himself in the subject of Mathematical Physics.

**PHYSICS TEXT AND REFERENCE BOOKS**

**1.001 Physics I**

**1.001/2 Physics 1/2**

**TEXT BOOKS**


or


In addition, students will be required to provide themselves with Curnow, C. *Complementary Physics*. University of New South Wales Press.

**REFERENCE BOOKS**


Loney, S. L. *Dynamics*. C.U.P.


1.112 Physics II (Science Course)

TEXTBOOKS

or

or

1.113 Physics III (Science Course)

TEXTBOOKS

REFERENCE BOOKS

1.133 Mathematical Physics (Science Course)

TEXTBOOKS

REFERENCE BOOKS
1.212 Physics (Applied Chemistry Course)

TEXTBOOKS

REFERENCE BOOKS
Kronig. Textbook of Physics.

DEPARTMENT OF OPTOMETRY

The Optometry Department of the School of Physics provides a four year full-time degree course in Optometry leading to the degree of Bachelor of Optometry (B.Optom.) which may be awarded at the pass or honours level. The Optometry course offered at the University of New South Wales is the only course of professional training for optometrists given in New South Wales.

The first year of the Optometry course comprises the common first year for students in the Faculties of Science, Applied Science, Engineering and Medicine, with General Biology as the elective, and this is followed by a three-year professional course in Optometry.

Instruction in Clinical Optometry, which forms the main part of the final year, is given in the University's Optometry Clinic, where each student examines and treats about 15 patients per week. In addition to the prescribed clinical work, the final year students may also participate in the specialised clinical research activities of the department which include orthoptic clinics, clinics for subnormal vision patients and remedial reading clinics for reading-deficient children.

Facilities for individual research are available. Graduates wishing to pursue their studies in optometry beyond the Bachelor of Optometry level may enrol with the University as candidates for the degrees of Master of Science or Doctor of Philosophy.
OPTOMETRY—FULL-TIME COURSE
Bachelor of Optometry

**FIRST YEAR**
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lect.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.001</td>
<td>Physics I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.001</td>
<td>Chemistry I</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>10.001</td>
<td>Mathematics I</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>17.001</td>
<td>General Biology</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>11</td>
<td>13</td>
</tr>
</tbody>
</table>

**SECOND YEAR**
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lect.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.811</td>
<td>Optometry I</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>1.821</td>
<td>Special Anatomy and Physiology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>73.011</td>
<td>Physiology I</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>26.501</td>
<td>English <em>or</em> 26.571 An Introduction to Modern Drama</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>11</td>
<td>13</td>
</tr>
</tbody>
</table>

**THIRD YEAR**
(30 weeks’ day course)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lect.</th>
<th>Lab./Tut.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.812</td>
<td>Optometry II</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td>1.831</td>
<td>Diseases of the Eye</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>12.011</td>
<td>Psychology I</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Two 30 hour General Studies Electives</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td>15</td>
<td>10</td>
</tr>
</tbody>
</table>
### Hours per week

<table>
<thead>
<tr>
<th>Course</th>
<th>Term 1</th>
<th>Term 2</th>
<th>Term 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.813 Optometry III</td>
<td>6-0</td>
<td>6-0</td>
<td>6-0</td>
</tr>
<tr>
<td>1.841 Clinical Optometry</td>
<td>0-14</td>
<td>0-14</td>
<td>0-15</td>
</tr>
<tr>
<td>12.741 Psychology</td>
<td>2-0</td>
<td>2-0</td>
<td>2-0</td>
</tr>
<tr>
<td>74.001 Indication for Medical Referral</td>
<td>1-0</td>
<td>1-0</td>
<td>0-0</td>
</tr>
<tr>
<td>Advanced General Studies Elective</td>
<td>2-0</td>
<td>2-0</td>
<td>2-0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>11-14</td>
<td>11-14</td>
<td>10-15</td>
</tr>
</tbody>
</table>

### OPTOMETRY TEXT AND REFERENCE BOOKS

#### 1.811 Optometry I

**TEXTBOOKS**

**REFERENCE BOOKS**
- Sears, F. W. *Optics*. Addison-Wesley.
- Rossi, B. *Optics*. Addison-Wesley.
- Curry, C. *Wave Optics*. Arnold.
- Helmholtz, H. *Physiological Optics*. Dover.

#### 1.812 Optometry II

**TEXTBOOKS**
- Bier, N. *Correction of Sub-normal Vision*. Butterworths.
- Gray, S. W. *The Teaching of Reading and Writing*. Unesco.

**REFERENCE BOOKS**
- Traquair, H. M. *An Introduction to Clinical Perimetry*. Kimpton.
- Berliner, S. *Biomicroscopy of the Eye*. Hoeber.
- Berens and Zuckerman. *Diagnostic Examination of the Eye*. Lippincott.
- Giles, G. H. *The Principles and Practice of Refraction*. Hammond and Hammond.
Giles, G. H. *The Practice of Orthoptics*. Hammond.
Lyle and Jackson. *Orthoptics*. Lewis.
Ogle, K. N. *Researches in Binocular Vision*. Saunders.
Schonell, F. J. *Backwardness in the Basic Subjects*. Oliver and Boyd.
Schonell, F. J. and Schonell, F. E. *Diagnostic and Attainment Testing*. Oliver and Boyd.
McKee, P. *The Teaching of Reading*. Houghton Mifflin.
Goddard, N. L. *Reading in the Modern Infants School*. University of London.
Harris, A. J. *How to increase Reading Ability*. Longmans.
Heilman, A. W. *Principles and Practice of Teaching Reading*. Merrill.

1.813 Optometry III

**TEXTBOOKS**

**REFERENCE BOOKS**
Ogle, K. N. *Researches in Binocular Vision*. Saunders.
Dudley, L. P. *Stereoptics*. Macdonald.
Brindley, G. S. *Physiology of the Retina and the Visual Pathway*. Arnold.
Wright, W. D. *Researches in Normal and Defective Colour Vision*. Kimpton.
Haynes, P. L. *Encyclopaedia of Contact Lens Practice*. Internal Optics.
Mazow, B. *Synopsis of Corneal Contact Lens Fitting for Optometrists*. Burgess.
Johnson, B. K. *Optics and Optical Instruments*. Hatton Press.
Thomas, P. F. *Techniques of Prescribing Multiband Microlenses*. Corneal Lens Corp.

1.821 Special Anatomy and Physiology

**TEXTBOOKS**

Adler, F. H. *Physiology of the Eye*. Mosby.

**REFERENCE BOOKS**

Spooner, J. D. *Ocular Anatomy*. Hatton Press.
Mann, I. *The Development of the Human Eye*. Cambridge.
Mann, I. *Developmental Abnormalities of the Eye*. Cambridge.

1.831 Diseases of the Eye

**TEXTBOOKS**


**REFERENCE BOOKS**

The geographer studies the spatial relationships of the phenomena making up man's physical and social environment. Apart from its cultural value, an understanding of these relationships is necessary for the conservation and planned development of physical and economic resources.

Geography I treats the elements of physical geography and biogeography and should be of particular interest to those studying concurrently in the physical and biological sciences. The dynamic and evolutionary bases of present-day environmental patterns are stressed, beginning with solar energy, and finally man is considered as a physical agent. The various elements are first treated separately, and their interaction in then demonstrated in studies of selected major ecosystems.

The practical classes are concerned with the use of maps and air photographs as essential geographic documents, and with the handling and depiction of geographic data.

Lecture, laboratory and tutorial arrangements for Geography I are as follows:

27.001 Geography I

<table>
<thead>
<tr>
<th>Hours per Week</th>
<th>for 3 Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Tutorials</td>
<td>1</td>
</tr>
<tr>
<td>Plus 3 days fieldwork</td>
<td></td>
</tr>
</tbody>
</table>
GEOGRAPHY TEXT AND REFERENCE BOOKS

27.001 Geography I

TEXTBOOKS

Hare, F. K. *The Restless Atmosphere*. Hutchinson.
Eyre, S. R. *Vegetation and Soils*. Arnold.

All students should possess a modern atlas such as:

Students will be required to purchase geologic and topographic maps of the Sydney area.

REFERENCE BOOKS

Ashton, H. T. and Maher, J. V. *Australian Forecasting and Climate*. Published by authors.
Leeper, G. W. *Introduction to Soil Science*. Melbourne, U.P.
Billings, W. D. *Plants and the Ecosystem*. Macmillan.
Thomas, W. L. (ed.). *Man's Role in Changing the Face of the Earth*. Chicago, U.P.
CSIRO. *The Australian Environment*. Melbourne, U.P.
REVISED FEES
EFFECTIVE FROM 1st JANUARY, 1967
Introductory Note

At the end of 1966, the schedule of fees payable for both undergraduate and post-graduate courses was revised. The new schedule is set out in the following pages. It should be noted that details of fees listed in this booklet supersede the fees listed in the 1967 University Calendar, all Faculty Handbooks, etc.

G. L. Macauley,
REGISTRAR.
(a) Courses in the Faculties of Applied Science, Architecture, Engineering, Medicine (Bachelor of Science (Medicine) Course only) and Science, and degree courses in Industrial Arts and Sheep and Wool Technology.

For the purpose of fee determination assessment is on a term basis.

A full-time course fee will be charged for any term where more than 15 hours’ per week instruction, etc., is involved.

(i) Full-time Course Fee (more than 15 hours’ attendance per week)—$110 per term.

In courses in which the Third Term is limited to five weeks of formal studies the fee for this term is $55.

(ii) Part-time Course Fee—over 6 hours’ and up to 15 hours’ attendance per week—$55 per term.

(iii) Part-time Course Fee—6 hours’ or less attendance per week—$28 per term.

(iv) Course Continuation Fee—A fee per annum of $23 (no term payment) is payable by:

(a) students who have once been enrolled for a thesis and have only that requirement outstanding, or

(b) students given special permission to take annual examinations without attendance at the University.

(Students in this category are not required to pay the subscriptions to the University Union, the Students’ Union, the Sports Association and the Library fee.)

(b) Commerce Courses.

For the purpose of fee determination assessment is on a term basis.

A full-time course fee will be charged for any term where more than 11 hours’ per week instruction, etc., is involved.

(i) Full-time Course Fee (more than 11 hours’ attendance per week)—$92 per term.

(ii) Part-time Course Fee—over 4 hours’ and up to 11 hours’ attendance per week—$55 per term.

(iii) Part-time Course Fee—4 hours’ or less attendance per week—$28 per term.

(iv) Course Continuation Fee—A fee per annum of $23 (no term payment) is payable by:

(a) students who have once been enrolled for a thesis and have only that requirement outstanding, or

(b) students given special permission to take annual examinations without attendance at the University.

(Students in this category are not required to pay the subscriptions to the University Union, the Students’ Union, the Sports Association and the Library fee.)
Diploma in Hospital Administration.

The fees for this course are assessed under this schedule according to the hours shown for the subject irrespective of whether the course is taken as an internal or external student. An external student in this course is exempt from the Student Activities Fees.

(c) Arts Courses* and the Degree Course in Social Work.

(i) Pass—$84 per annum per subject,
or $28 per term per subject.

(ii) Distinction Subjects or Honours—an additional $26 per annum per subject in which distinction or honours are taken in student’s second and third years and $110 per subject per annum in the fourth year.

(d) Medical Course leading to degree of M.B.B.S.

Year 1 .................................................................................................................. per term $110
Year 2 .................................................................................................................. per term $110
Year 3 .................................................................................................................. per term $107
Year 4 .................................................................................................................. per term $110
Year 5 .................................................................................................................. per term $101
Year 6 .................................................................................................................. per term $65
1967 only
Year 6 .................................................................................................................. per term $83

Note: In the case of students in the clinical years of the Medical Course, the proposed new rates are the same as for a full-time course with more than 15 hours’ attendance per week, namely, $110 per term, from which has been deducted amounts to be collected by the University on behalf of the teaching hospitals for cost of residence.

(e) Miscellaneous Subjects.

(i) Undergraduate subjects taken as “miscellaneous subjects” (i.e., not for a degree or diploma) or to qualify for registration as a candidate for a higher degree are assessed where they appear only in an Arts course (except where approved as the humanities component in another course) according to paragraph (c) “Arts courses” above. Where the distinction section only of an Arts subject is taken the fee payable is the subject fee for a pass Arts subject. All other subjects taken as miscellaneous subjects are assessed according to paragraph (a) “Courses in the Faculties of Applied Science, etc.” above.

In cases where a student takes a programme of miscellaneous subjects from more than one of the categories referred to above, the fees are assessed in accordance with paragraph (a) “Courses in the Faculties of Applied Science, etc.” above.

* Students transferring from the Arts course to a course other than Arts and claiming credit for subjects taken in the Arts course will have their fees for these subjects re-assessed retrospectively to conform with those payable for the course to which they transfer.
(ii) Students given approval to enrol in a miscellaneous subject or subjects in addition to being enrolled in a course are assessed according to the total hours of attendance as if the additional subject formed part of the course.

OTHER FEES

In addition to the course fees set out above, all registered undergraduates will be required to pay:

- Matriculation Fee—payable at the beginning of first year $7
- Library Fee—annual fee $12

Student Activities Fees.

- University Union*—annual subscription $12
- Sports Association*—annual subscription $4
- Students’ Union—annual subscription $10

Total $28

Graduation or Diploma Fee—$7 payable at the completion of the course.

Depending on the course being taken, students may also be required to pay:

- Applied Psychology Kit Hiring Charge—$2 per kit. Additional payment for breakages and losses in excess of $1 may be required.
- Biochemistry Kit Hiring Charge—$4 per kit. Additional payment for breakages and losses in excess of $1 may be required.
- Chemistry Kit Hiring Charge—$4 per kit. Additional payment for breakages and losses in excess of $1 may be required.
- Excursion Fee—$2 per subject (Biology, Botany, Zoology, Entomology).
- Anatomy Dissection Manual and Histology Slides deposit—$10. (Refundable on return in satisfactory condition.)
- Pathology Instrument Kit—$10. (Refundable on return in satisfactory condition.)

SPECIAL EXAMINATION FEES

- Deferred examination—$5 for each subject.
- Examinations conducted under special circumstances—$7 for each subject.
- Review of examination result—$7 for each subject.

*Life members of these bodies are exempt from the appropriate fee or fees.
† Students in the original Applied Biology degree course pay an excursion fee of $1 per subject for Botany, Zoology and Entomology.
LATE FEES

First Enrolments.
Fees paid on the late enrolment session and before commencement of term ........................................ $6
Fees paid during the 1st and 2nd weeks of term .......... $12
Fees paid after the commencement of the 3rd week of term with the express approval of the Registrar and Head of the School concerned ........................................ $23

Re-Enrolments.
First Term:
Failure to attend enrolment centre during enrolment week ................................................................. $6
Fees paid after the commencement of the 3rd week of term to 31st March ........................................... $12
Fees paid after 31st March where accepted with the express approval of the Registrar ........................ $23

Second and Third Terms:
Fees paid in 3rd and 4th weeks of term ...................... $12
Fees paid thereafter ................................................................................................................................. $23
Late lodgement of Application for Admission to Examinations (late applications will be accepted for three weeks only after the prescribed dates) .............................. $5

WITHDRAWAL FROM COURSE

Students withdrawing from a course are required to notify the Registrar in writing. Fees for the course accrue until a written notification is received.

Where notice of withdrawal from a course is received by the Registrar before the first day of First Term, a refund of all fees paid other than the matriculation fee will be made.

Where a student terminates for acceptable reasons a course of study before half a term has elapsed, one half of the term’s fee may be refunded. Where a student terminates a course of study after half a term has elapsed, no refund may be made in respect of that term’s fees.

The Library fee is an annual fee and is not refundable where notice of withdrawal is given after the commencement of First Term.

On notice of withdrawal, a partial refund of the Student Activities Fees is made on the following basis—:

University Union—$2 in respect of each half term.
University of New South Wales Students’ Union—where notice is given prior to the end of the fifth week of first term, $2; thereafter no refund.
University of New South Wales Sports Association—where notice is given prior to 30th April, a full refund is made; thereafter no refund.
Miscellaneous—where notice is given prior to 30th April, $5; thereafter no refund.
POST-GRADUATE FEES

Basis of Fee Assessment.

Where course fees are assessed on the basis of term hours of attendance, the hours for each subject for purposes of fee assessment shall be those prescribed in the Calendar. The granting of an exemption from portion of the requirements of a subject in which a student is enrolled does not carry with it any exemption from the payment of fees.

(a) Courses for the degrees of Master of Technology, Master of Business Administration, and Master of Hospital Administration.

(i) Registration Fee ........................................................ $5
(ii) Graduation Fee ............................................................ $7
(iii) Course Fee—calculated on the basis of a term’s attendance at the rate of $6 per hour per week. Thus the fee for a programme requiring an attendance of 24 hours per week for the term is $144.

For the Master of Hospital Administration a special course fee per term of $46 applies in Term 3 of first year and Term 1 of second year when attendance at the University is limited.

(iv) Thesis or Project Fee—$35.
(An additional fee of $23† is payable by students who have completed their final examinations for the degree but have not completed the thesis or project for which they have been previously enrolled.)

(b) Master of Education.

Fees are payable from the commencement date of a candidate’s registration and remain payable until the candidate’s thesis is presented to the Examinations Branch.

Thesis plus Formal Courses in Two Subjects.

(i) Registration Fee ........................................................ $5
(ii) Course Fee—per subject .............................................. $36
(iii) Internal Full-time Student Annual Thesis Fee* ............ $69
(iv) Internal Part-time Student Annual Thesis Fee* ........... $36
(v) External Student Annual Thesis Fee‡ ......................... $23
(vi) Final Examination (including Graduation Fee) .......... $35

Project plus Formal Courses in Four Subjects.

(i) Registration Fee ........................................................ $5
(ii) Course Fee—per subject .............................................. $36
(iii) Project Fee—Internal Student (at the time of first enrolment in the project) ........................................... $23
(iv) Project Fee—Internal Student (for each† subsequent enrolment in the project) ..................................... $23
(v) Project Fee—External Student—per annum ............... $23
(vi) Graduation Fee .......................................................... $7

* The Annual Thesis Fee is payable in any year in which a candidate is formally enrolled in the thesis.
† Students paying this fee who are not in attendance at the University are not required to pay the Student Activities Fees or the Library Fee.
(c) Graduate Diploma Courses

(i) Registration Fee ........................................... $5
(ii) Award of Diploma Fee .................................. $7
(iii) Course Fee—calculated on the basis of a term’s attendance at the rate of $6 per hour per week. Thus the fee for a programme requiring an attendance of 24 hours per week for the term is $144.
(iv) Thesis or Project Fee—$35.
(An additional fee of $23† is payable by students who have completed their final examinations for the diploma but have not completed the thesis or project for which they have been previously enrolled. This fee of $23 also applies to students taking the course for the Graduate Diploma in Librarianship who have not completed assignments.)

† Students paying this fee who are not in attendance at the University are not required to pay the Student Activities Fees or the Library Fee.

(d) Diploma in Education.

(i) Registration Fee ........................................... $5
(ii) Award of Diploma Fee .................................. $7
(iii) Course Fee—per annum $330, or $110 per term.

(e) Miscellaneous Subjects.

Post-graduate subjects taken as “Miscellaneous Subjects” (i.e., not for a degree or diploma) or to qualify for registration as a candidate for a higher degree are assessed on the basis of a term’s attendance at the rate of $6 per hour per week. Thus the fee for a subject requiring an attendance of 2 hours per week for the term is $12 per term.

OTHER FEES

In addition to the course fees set out above, students in categories (a), (b), (c) and (d) are required to pay:—

* Library Fee*—Annual Fee ................................ $12
* Student Activities Fees*—
  University Union†—annual subscription ........ $12
  Sports Association†—annual subscription ........ $2
  Students’ Union†—annual subscription .......... $4
  Miscellaneous—annual fee ....................... $10

Total ............................................................... $28

Examinations conducted under special circumstances—$7 for each subject.
Review of examination result—$7 for each subject.

* External students are not required to pay these fees.
† Life members of these bodies are exempt from the appropriate fee or fees.
LATE FEES

First Term:
Fees paid from commencement of 3rd week of term to 31st March $12
Fees paid after 31st March where accepted with the express approval of the Registrar (see above) $23

Second and Third Terms:
Fees paid in 3rd and 4th weeks of term $12
Fees paid thereafter $23
Late lodgement of application for admission to examinations. (Late applications will be accepted for three weeks only after the prescribed dates) $5

Withdrawal:
Students withdrawing from a course are required to notify the Registrar in writing. Fees for the course accrue until a written notification is received.

Where notice of withdrawal from a course is received by the Registrar before the first day of First Term, a refund of all fees paid other than registration fee will be made.

Where a student terminates for acceptable reasons a course of study before half a term has elapsed, one-half of the term’s fee may be refunded. Where a student terminates a course of study after half a term has elapsed, no refund may be made in respect of that term’s fees.

The Library fee is an annual fee and is not refundable where notice of withdrawal is given after the commencement of First Term. On notice of withdrawal, a partial refund of the Student Activities fees is made on the following basis:
- University Union—$2 in respect of each half-term.
- University of New South Wales Students’ Union—$2 where notice is given prior to the end of the fifth week of First Term.
- University of New South Wales Sports Association—where notice is given prior to 30th April, a full refund is made; thereafter no refund.
- Miscellaneous—where notice is given prior to 30th April, $5; thereafter no refund.

RESEARCH DEGREES — FEES

(a) Master of Architecture, Arts, Building, Commerce, Engineering*, Librarianship, Science* or Surveying.
Fees are payable from the commencement date of a candidate’s registration and remain payable until the candidate’s thesis is presented to the Examinations Branch.

(i) Qualifying Examination $12
(ii) Registration Fee $5

* Candidates registered under the conditions governing the award of this degree without supervision will pay the following fees:
- Registration fee $5.
- Examination of thesis $69.
They are not required to pay the Student Activities Fees or the Library Fee.
(iii) Internal Full-time Student Annual Fee .......... $69  
    Internal Full-time Student Term Fee .......... $23  
(iv) Internal Part-time Student Annual Fee .......... $36  
    Internal Part-time Student Term Fee .......... $12  
(v) External Student Annual Fee* .......... $23  
(vi) Final Examination (including Graduation fee) .......... $35  

(b) Master of Surgery.  
(i) Qualifying Examination .. .......... $12  
(ii) Registration Fee .. .......... $12  
(iii) Annual Fee .. .......... $69  
(iv) Final Examination (including Graduation fee) .. $69  

(c) Doctor of Medicine.  
(i) Qualifying Examination .. .......... $12  
(ii) Registration Fee .. .......... $12  
(iii) Annual Fee .. .......... $69  
(iv) Final Examination (including Graduation fee) .. $69  

(d) Doctor of Philosophy.  
(i) Qualifying Examination .. .......... $12  
(ii) Registration Fee .. .......... $5  
(iii) Annual Fee .. .......... $69  
(iv) Final Examination (including Graduation fee) .. $48  

(e) Doctor of Science, Doctor of Letters.  
(i) Registration Fee .. .......... $73  

(f) Miscellaneous Subjects.  
Post-graduate subjects taken as "Miscellaneous Subjects" (i.e., not for a degree or diploma) or to qualify for registration as a candidate for a higher degree are assessed on the basis of a term's attendance at the rate of $6 per hour per week. Thus the fee for a subject requiring an attendance of 2 hours per week for the term is $12 per term.  

Research.  
(i) One day per week—per annum .......... $23  
(ii) Two or three days per week—per annum .......... $46  
(iii) Four or five days per week—per annum .......... $69  

Other Fees  
In addition to the fees set out above, all students in the categories (a) to (d) are required to pay:—  

* Library Fee — Annual Fee .......... $12  
** Student Activities Fees—  
    University Union† — annual subscription .......... $12  
    Sports Association† — annual subscription .......... $2  
    Students' Union† — annual subscription .......... $4  
    Miscellaneous — annual fee .......... $10  

  Total .......... $28  

* Students in this category are not required to pay the Student Activities Fees or the Library Fee.  
† Life members of these bodies are exempt from the appropriate fee or fees.
Late Fees

Initial Registration—

Fees paid from commencement of sixth week after date of offer of registration to end of eighth week ..... $12

Renewal at Commencement of each Academic Year—

Fees paid from commencement of third week of term to 31st March .................................................................. $12

Fees paid after 31st March where accepted with the express approval of the Registrar ...................................... $23