

# The University of New South Wales



### Summary Volume





Arms of The University of New South Wales

Granted by the College of Heralds, London 3 March 1952

#### **Heraldic Description of Arms**

Argent on a Cross Gules a Lion passant guardant between four Mullets of eight points Or a Chief Sable charged with an open Book proper thereon the word SCIENTIA in letters also Sable.

The lion and the four stars of the Southern Cross on the Cross of St George have reference to the State of New South Wales which brought the University into being; the open book with SCIENTIA across its page reminds us of its original purpose. Beneath the shield is the motto 'Manu et Mente', which is the motto of the Sydney Technical College, from which the University has developed. The motto is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.



The University of New South Wales

Calendar

Summary Volume



The address of the University of New South Wales is:

PO Box 1, Kensington, New South Wales, Australia 2033

Telephone: (02) 663 0351

Telegraph: UNITECH, SYDNEY

Telex AA26054

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Course Outline   Centre for Medical Education Research and   Subject Descriptions and Textbooks   Conditions for the Award of Degrees   First Degrees   Higher Degrees   Doctor of Science   Doctor of Letters   Doctor of Letters   Doctor of Medicine in the Faculty of Medicin   Doctor of Philosophy   Master of Health Planning   Preparation and Submission of Project Report	Develop	ment	   for Higt	      	    grees	196 197 199 201 202 203 204 206 209 210
Course Outline   Centre for Medical Education Research and   Subject Descriptions and Textbooks   Conditions for the Award of Degrees   First Degrees   Higher Degrees   Doctor of Science   Doctor of Letters   Doctor of Medicine in the Faculty of Medicin   Doctor of Amage   Master of Health Planning   Preparation and Submission of Project Report   Policy with respect to the Use of Higher Degrees	Develop	ment       	   for Higt		   grees	196 197 199 201 202 203 204 206 209 210 212
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# **Calendar of Dates**

Session 1 commences on the first Monday of March.

The academic year is divided into two sessions, each containing 14 weeks for teaching. There is a recess of five weeks between the two sessions as well as short recesses of one week within each of the sessions.

The Academic Year

1977

Session 1 (14 weeks)	7 March to 15 May May Recess: 16 May to 22 May 23 May to 19 June Midyear Recess: 20 June to 24 July	Faculties other than Medicine
Session 2 (14 weeks)	25 July to 28 August August Recess: 29 August to 4 September 5 September to 6 November Study Recess: 7 November to 13 November	
Annual examinations	14 November to 6 December	
First and Second Years	As for other faculties	Faculty of Medicine
Third and Fourth Years	Term 1 (9 weeks) 24 January to 27 March Term 2 (10 weeks) 4 April to 15 May May Recess: 16 May to 22 May 23 May to 19 June Term 3 (9 weeks) 27 June to 28 August Term 4 (10 weeks) 5 September to 13 November	
Fifth and Sixth Years	Term 1 (10 weeks) 24 January to 3 April Term 2 (10 weeks) 12 April to 19 June Term 3 (10 weeks) 4 July to 11 September Term 4 (10 weeks) 19 September to 27 November	

### January 1977

S SII	1	
		Public Holiday
M T	3	Public Holiday
w/	- <del>1</del> 5	VCAC 9.30 am
Th	6	
F	7	Last day for application for review of results of annual examinations Last day for application for permission to re-enrol by students who infringed re-enrolment rules at annual examinations
S	8	
Su	9	
М	10	Admissions Committee, 2 pm Publication of timetable for deferred examinations Biological Sciences Higher Degree Committee, 2 pm
Т	11	
W	12	VCAC, 9.30 am Professional Studies Higher Degree Committee, 2 pm Commerce Higher Degree Committee, 2 pm
Th	13	Research and Higher Awards Committee, 10 am
F	14	Last day for acceptance of applications to transfer to another course within the University Engineering Higher Degree Committee, 10 am
S	15	
Su	16	
М	17	Council, 2 pm
Т	18	Arts Higher Degree Committee, 2 pm
W	19	VCAC, 9.30 am
Th	20	Applied Science Higher Degree Committee, 10 am Architecture Higher Degree Committee, 2 pm
F	21	Re-enrolment Committee, 9 am
S	22	
Su	23	
М	24	Term 1 begins — Medicine III, IV, V and VI Deferred examinations begin
T	25	Science Higher Degree Committee, 2 pm
W	26	VCAC, 9.30 am Professorial Board Executive Committee, 2 pm
Th	27	
F	28	
S	29	
Su	30	
М	31	Australia Day — Public Holiday

### February 1977

Т	1	Re-enrolment Committee, 9 am Public Relations Committee, 9 am Professorial Board, 10 am Personnel Sub-Committee, 2.30 pm Finance Sub-Committee, 3.15 pm
w	2	Student Affairs Committee, 3:30 pm VCAC, 9:30 am Professional Studies Higher Degree Committee, 2 pm
Th	3	Commerce Higher Degree Committee, 2 pm Applied Sciences Executive Committee, 10 am Architecture Executive Committee, 2 pm Australian Graduate School of Management Higher Degree Committee, 2 pm
F S Su	4 5 6	Deferred examinations end
М	7	Biological Sciences Executive Committee, 2 pm
т	8	Arts Executive Committee, 2 pm Graduation Ceremony, Medicine, 2 pm
w	9	VCAC, 9.30 am
<b>T</b> L	10	Board of Studies in Science and Mathematics Executive Committee, 2 pm
In	10	Faculty of Engineering Education Committee, 10 am
_		Architecture Higher Degree Committee, 2 pm
F	11	Examinations Committees of Faculties, 9 am Military Studies Higher Degree Committee, 9 30 am
		Engineering Higher Degree Committee, 10 am
~ ~ ~	10 10	Military Studies Executive Committee, 10.30 am
512	/5013	Eveningtions Committees of Feaulties 0 am
IVI	14	Buildings and Equipment Committee, 3.45 pm
-		Academic Committee, 6 pm
1	15	Last day for appeal against exclusion by students who infringed re-enrolment rules at annual examinations Re-enrolment Appeal Committee 930 am
		Law Higher Degree Committee, 9.30 am
		Law Executive Committee, 10.30 am
		Arts Higher Degree Committee, 2 pm
W	16	VCAC, 9.30 am
		Board of Studies in General Education Executive Committee, 2 pm
		Medicine Executive Committee, 3 pm
Т'n	17	Re-enrolment Appeal Committee, 9.30 am
		Applied Science Higher Degree Committee, 10 am Health Personnel Education Committee, 10 am
		Australian Graduate School of Management Board of Studies, 2 pm
F	18	Engineering Executive Committee, 10 am
		Last day for acceptance of enrolment by new students (late fee payable)
		Deferred examination results available
<u>S19</u>	/Su20	
М	21	Enrolment Week commences for new students and students repeating first year Biological Sciences Higher Degree Committee 2 pm
T	22	Science Higher Degree Committee, 2 pm
	00	Last day for application for review of deferred examination results
vv	23	VCAC, 9.30 am Professional Studies Higher Degree Committee 10 am
		Professorial Board Executive Committee, 2 pm
Th	24	Engineering Linker Degree Committee 10 or
1	20	Last day for application for permission to re-enrol by students who infringed re-enrolment rules at deferred
000	10	examinations
526,	/Su2/	Enrolment period begins for eccord and later user at the t
IVI	20	Admissions Committee, 2 pm
		Faculty of Biological Sciences, 2 pm
		Executive Committee of Council, 3 pm

### March 1977

т	1	Professorial Board, 10 am Science Executive Committee, 2 pm
w	2	VCAC, 9.30 am Commerce Higher Degree Committee, 2 pm
Th	3	First Year Re-enrolment Committee, 9 am Faculty of Applied Science, 10 am Faculty of Architecture, 2 pm
F	4	Social Science Degree Committee, 10 am
S	5	
Su	6	
м _	7	Session 1 begins — all courses except Medicine III, IV, V and VI First Term begins, Faculty of Military Studies
T	8	De serelment Committee 9 em
w	9	VCAC, 9.30 am Faculty of Medicine, 4.30 pm
Th	10	Research and Higher Awards Committee, 10 am
		Faculty of Engineering Education Committee, 10 am Australian Graduate School of Management Board of Management, 2.30 pm
F	11	Military Studies Higher Degree Committee, 9.30 am Faculty of Military Studies, 10.30 am
S	12	
Su	13	
М	14	Board of Studies in General Education Executive Committee, 11 am Personnel Sub-Committee, 11.30 am Council, 2 pm
Т	15	Law Higher Degree Committee, 9.30 am Law Executive Committee, 10.30 am Faculty of Science, 2 pm
W	16	VCAC, 9.30 am Professional Studies Higher Degree Committee, 2 pm Board of Studies in Science and Mathematics, 2 pm Commerce Executive Committee, 2 pm
Th	17	Applied Science Higher Degree Committee, 10 am Architecture Higher Degree Committee, 2 pm Last day for appeal against exclusion by students who infringed re-enrolment rules at deferred examinations
F	18	Graduation Ceremony, Broken Hill Division, 2 pm Last day for acceptance of enrolment by new students (late fee payable)
S	19	
Su	20	
М	21	Re-enrolment Appeal Committee, 9.30 am Biological Sciences Higher Degree Committee, 2 pm
т	22	Science Higher Degree Committee, 2 pm Arts Executive Committee, 2 pm
W	23	VCAC, 9.30 am Commerce Higher Degree Committee, 2 pm Faculty of Engineering, 2 pm
Th	24	
F	25	Engineering Higher Degree Committee, 10 am
S	26	Terre Londo Medialne Veero III and IV
Su	2/	I erm 1 ends — Medicine Years III and IV
M	28	Executive Committee of Council, 3 pm
1	29	Arts Higher Degree Committee, 2 pm
٧V	30	Professorial Board Executive, 2 pm
Th	31	Architecture Executive Committee, 2 pm

A	pril <sup>·</sup>	1977
F	1	Applied Science Executive Committee, 10 am Last day for students, other than those attending the University for the first time, to discontinue without failure subjects which extend over Session 1 only Last day to enrol in additional subjects Last day for acceptance of enrolment by students re-enrolling in second and later years (late for poychic)
S Su	2 3	Term 1 ends — Medicine Years V and VI
М	4	Term 2 begins — Medicine Years III and IV Graduation Ceremony, Applied Science, 10 am Graduation Ceremony, Commerce (First Section), 2 pm
Т	5	Biological Sciences Executive Committee, 2 pm Public Relations Committee, 9 am Professorial Board, 10 am Faculty of Arts, 2 pm Personnel Sub-Committee, 2.30 pm Finance Sub-Committee, 3.15 pm Student Affairs Committee, 3.30 pm
w	6	Faculty of Law, 6 pm VCAC, 9.30 am Faculty of Commerce, 2 pm Graduation Ceremony, Faculties of Biological Sciences, Science, and Medicine, 2 pm
Th F S9	7 8 /Su10	Faculty of Engineering Education Committee, 10 am Australian Graduate School of Management Higher Degree Committee, 2 pm Good Friday — Public Holiday
M T	11 12	Easter Monday — Public Holiday Term 2 begins — Medicine Years V and VI Buildings and Equipment Committee, 3.45 pm Academic Committee, 6 pm
w	13	Library Committee, 10.30 am VCAC, 9.30 am Medicine Higher Degree Committee, 2 pm Medicine Executive Committee, 3 pm
Th	14	Professional Studies Higher Degree Committee, 2 pm Research and Higher Awards Committee, 10 am Graduation Ceremony, Board of Studies in Science and Mathematics, 10 am Board of Studies in General Education, 2 pm
F	15	Graduation Ceremony, Commerce (Second Section), 2 pm Military Studies Higher Degree Committee, 9.30 am Military Studies Executive Committee, 10.30 cm
<u>S16</u>	5/Su17	Miniary Studies Executive Committee, 10.30 am
M T	18 19	Biological Sciences Higher Degree Committee, 2 pm Graduation Ceremony, Commerce (Third Section), 10 am Graduation Ceremony, Arts (First Section), 2 pm
W	20	VCAC, 9.30 am Commerce Higher Degree Committee, 2 pm Professional Studies Executive Committee, 2 pm
ſħ	21	Applied Science Higher Degree Committee, 10 am Graduation Ceremony, Engineering (First Section), 10 am Architecture Higher Degree Committee, 2 pm Australian Graduate School of Management Board of Studies, 2 pm Graduation Ceremony, Arts (Second Section), 2 pm
F	22	Engineering Higher Degree Committee, 10 am Social Science Executive Committee, 10 am Engineering Executive Committee, 2 pm
<u>S23</u>	/Su24	
M T	25 26	Anzac Day — Public Holiday Computing Science Committee, 11 am Science Higher Degree Committee, 2 pm
W	27	VCAC, 9.30 am Professorial Board Executive Committee 2 pm
Th	28 20	Graduation Ceremony, Professional Studies (First Section), 10 am Graduation Ceremony, Architecture, 2 pm
S	29 30	extend over Session 1 only

### May 1977

Su	1	
M	2	Graduation Ceremony, Arts (Third Secton), 10 am Graduation Ceremony, Engineering (Second Section), 2 pm
Т	3	Professorial Board, 10 am
w	4	VCAC, 9.30 am
Th	5	Faculty of Engineering Education Committee, 10 am
		Graduation Ceremony, Law, 10 am Graduation Ceremony, Engineering (Third Section), 2 pm Board of Management, Institute of Administration, 2.15 pm
F	6	Social Science Degree Committee, 10 am
S Su	7 8	First Term ends, Faculty of Military Studies
M	9	Personnel Sub-Committee, 11.30 am
т	10	Publication of provisional timetable for June/July examinations
w	11	Graduation Ceremony, Professional Studies (Second Section), 2 pm VCAC, 9.30 am
	10	Commerce Executive Committee, 2 pm
In	12	Australian Graduate School of Management Board of Management, 2.30 pm
		Last day for acceptance of corrected enrolment details forms
		Last day for applications from students completing requirements at end of Session 1 for admission to
F	13	Military Studies Higher Degree Committee, 9.30 am
		Military Studies Executive Committee, 10.30 am
		University degrees and diplomas at Session 2 graduation ceremony
<u>S14</u>	/Su15	
М	16	May Recess begins Board of Studies in General Education Executive Committee, 11 am
т	17	Biological Sciences Executive Committee, 2 pm
ŵ	18	VCAC, 9.30 am
		Board of Studies in Science and Mathematics Executive Committee, 2 pm Medicine Higher Degree Committee, 2 pm
Th	19	Applied Science Higher Degree Committee, 10 am
_		Architecture Executive Committee, 2 pm
F	20	Engineering Executive Committee, 10 am Last day for students, other than those attending the University for the first time, to discontinue without
		failure subjects which extend over the whole academic year
S Su	21 22	May Recess ends
M	23	Second Term begins, Faculty of Military Studies
		Advanced and Extension Studies Committee, 11 am
		Biological Sciences Higher Degree Committee, 2 pm Executive Committee of Council 3 pm
		Last day for students to advise of examination timetable clashes
Т	24	Law Higher Degree Committee, 9.30 am
		Arts Executive Committee, 2 pm
		Science Higher Degree Committee, 2 pm
W	25	VCAC, 9.30 am Professional Studies Higher Degree Committee, 10 am
		Commerce Higher Degree Committee, 2 pm
Th	26	Faculty of Applied Science, 10 am
F	27	Aromeorare myner Degree Committee, 2 pm
<u>S28</u>	3/Su29	
М	30	Admissions Committee, 2 pm Faculty of Biological Sciences, 2 pm
т	31	Science Executive Committee, 2 pm

### June 1977

W	1	VCAC, 9.30 am Professional Studies Executive Committee, 2 pm Professorial Board Executive Committee, 2 pm
Th	2	Faculty of Architecture, 2 pm
F	3	Military Studies Higher Degree Committee, 9.30 am Engineering Higher Degree Committee, 10 am
S	4	Faculty of Military Studies, 10.30 am
Su	5	
M	6	
Т	7	Public Relations Committee, 9 am
		Professorial Board, 10 am
		Faculty of Arts, 2 pm
		Finance Sub-Committee, 2.30 pm
		Student Affairs Committee, 3.30 pm
		Faculty of Law, 6 pm Publication of timetable for lung ( lulu querringtions
W	8	VCAC 9.30 am
••	0	Faculty of Commerce, 2 om
		Faculty of Medicine, 4.30 pm
Th	9	Australian Graduate School of Management Higher Degree Committee, 2 pm
		Board of Studies in General Education, 2 pm
		Health Personnel Education Committee, 10 am
_		Research and Higher Awards Committee, 10 am
F	10	
S	11	
<u></u>	12	
IVI T	13	Queen's Birthday — Public Holiday
E	14	Library Committee 10.30 am
		Buildings and Equipment Committee, 3.45 pm
		Academic Committee, 6 pm
W	15	VCAC, 9.30 am
		Board of Studies in Science and Mathematics Executive Committee 2 nm
Th	16	Applied Science Executive Committee, 10 am
		Architecture Executive Committee, 2 pm
F	17	Faculty of Engineering 10 am
S	18	Social Science Executive Committee, 10 am
Su	19	Session 1 ends
		Term 2 ends — Medicine Years III, IV, V and VI
М	20	Midyear Recess begins
Т	21	Midyear examinations begin
W	22	VCAC, 9.30 am
Th	23	Architecture Higher Degree Committee, 2 pm
_		Australian Graduate School of Management Board of Studies, 2 pm
F	24	
S	25	
Su	26	
М	27	Executive Committee of Council, 3 pm
т	28	Term 5 begins — Medicine Tears III and IV
ŵ	29	VCAC 9.30 am
••		Professorial Board Executive Committee, 2 pm
Th	30	

Jul	July 1977				
F	1	Social Science Degree Committee, 10 am			
s	2				
Su	3				
м	4	Term 3 begins — Medicine Years V and VI			
т	5	Midyear examinations end Professorial Board, 10 am Science Executive Committee, 2 pm			
W	6	VCAC, 9.30 am			
т	7				
F	8				
S	9				
Su	10				
M	11	Personnel Sub-Committee, 11.30 am Council, 2 pm			
T	12	Library Committee, 10.30 am Arts Higher Degree Committee, 2 pm			
w	13	VCAC, 9.30 am Board of Studies in Science and Mathematics, 2 pm			
Th	14	Applied Science Higher Degree Committee, 10 am Research and Higher Awards Committee, 10 am Architecture Executive Committee, 2 pm Australian Graduate School of Management Board of Management, 2.30 pm			
F	15	Military Studies Higher Degree Committee, 9.30 am Military Studies Executive Committee, 10.30 am			
s	16				
Su	17				
М	18	Board of Studies in General Education Executive Committee, 11 am Biological Sciences Executive Committee, 2 pm			
Т	19	Law Higher Degree Committee, 9.30 am Law Executive Committee, 10.30 am			
W	20	VCAC, 9.30 am Medicine Higher Degree Committee, 2 pm Medicine Executive Committee, 3 pm Commerce Higher Degree Committee, 2 pm Commerce Executive Committee, 3 pm			
Th	21	Applied Science Executive Committee, 10 am			
F	22	Engineering Higher Degree Committee, 10 am			
S	23				
Su	24	Midyear Recess ends			
М	25	Session 2 begins — all courses except Medicine Years III, IV, V and VI Biological Sciences Higher Degree Committee, 2 pm Executive Committee of Council, 3 pm			
T	26	Arts Executive Committee, 2 pm Science Higher Degree Committee, 2 pm			
W	27	VCAC, 9.30 am Professional Studies Higher Degree Committee, 2 pm Professorial Board Executive Committee, 2 pm			
Th	28	Faculty of Architecture, 2 pm			
F	29	Engineering Executive Committee, 10 am			
S	30				
Su	31				

# August 1977

м	1	Computing Science Committee, 11 am Admissions Committee, 2 pm				
Т	2	Public Relations Committee, 9 am Professorial Board, 10 am Parconnel Sub-Committee, 2 30 pm				
		Finance Sub-Committee, 3.15 pm Student Affairs Committee, 3.30 pm				
W	3	3 VCAC, 9.30 am Faculty of Commerce, 2 pm Professional Studies Executive Committee, 2 pm				
Th	4	Faculty of Applied Science, 10 am Faculty of Engineering Education Committee, 10 am Australian Graduate School of Management Higher Degree Committee, 2 pm Foundation Day Board of Studies in General Education, 2 pm				
F	5	Last day for students attending the University for the first time to discontinue without failure subjects which extend over the whole academic year				
S Su	6 7					
M	8	Buildings and Equipment Committee, 3.45 pm Academic Committee, 6 pm				
Т	9	Faculty of Arts, 2 pm Faculty of Law, 6 pm				
W	10	VCAC, 9.30 am Faculty of Medicine, 4.30 pm				
Th	11	Research and Higher Awards Committee, 10 am Architecture Higher Degree Committee, 2 pm				
F	12	Military Studies Higher Degree Committee, 9.30 am Faculty of Military Studies, 10.30 am Social Science Executive Committee, 10 am				
S Su	13 14	Second Term ends — Faculty of Military Studies				
M	15	Faculty of Biological Sciences, 2 pm				
w	17	Science Executive Committee, 2 pm VCAC, 9.30 am Commerce Higher Degree Committee, 2 pm				
Th	18	Applied Science Higher Degree Committee, 10 am Australian Graduate School of Management Board of Studies, 2 pm				
F	19	Engineering Higher Degree Committee, 10 am Last day for students, other than those attending the University for the first time, to discontinue without failure subjects which extend over Session 2 only				
S Su	20 21					
М	22	Executive Committee of Council, 3 pm				
ł w	23	Arts Higher Degree Committee, 2 pm				
Th	25	Applied Science Executive Committee, 10 am				
F	26	Engineering Executive Committee, 10 am Social Science Degree Committee, 10 am				
S Su	27 28	Term 3 ends — Medicine Years III and IV				
М	29	August Recess begins Board of Studies in General Education Executive Committee, 11 am Biological Sciences Executive Committee, 2 nm				
Т	30	Science Higher Degree Committee, 2 pm				
W	31	VCAC, 9.30 am Board of Studies in Science and Mathematics Executive Committee, 2 pm Professorial Board Executive Committee, 2 pm				
		Last day for acceptance of applications for re-admission in 1978 after exclusion under the re-enrolment rules				

### September 1977

Th	1					
F	2					
S	3					
Su	4	August Recess ends				
М	5	Third Term begins, Faculty of Military Studies Term 4 begins — Medicine Years III and IV				
Т	6	Professorial Board, 10 am Science Executive Committee, 2 pm				
w	7	VCAC, 9.30 am School of Mathematics competition prize-giving ceremony, 2 pm Medicine Higher Degree Committee, 2 pm Medicine Executive Committee, 3 pm				
Th	8	Faculty of Engineering Education Committee, 10 am Research and Higher Awards Committee, 10 am Architecture Executive Committee, 2 pm Australian Graduate School of Management Board of Management, 2.30 pm				
F	9	Military Studies Higher Degree Committee, 9.30 am Military Studies Executive Committee, 10.30 am				
S	10					
Su	11	Term 3 ends — Medicine Years V and Vi				
M	12	Personnel Sub-Committee, 11.30 am Council, 2 pm Biological Sciences Higher Degree Committee, 2 pm Last day for applications from students completing requirements at end of Session 2 for admission to University degrees and diplomas				
Т	13	Library Committee, 10.30 am Arts Executive Committee, 2 pm				
W	14	VCAC, 9.30 am Professional Studies Higher Degree Committee, 2 pm Commerce Executive Committee, 2 pm Last day for return of corrected enrolment details forms				
Th	15	·				
F	16	Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 2 only				
S	17					
Su	18					
М	19	Term 4 begins — Medicine Years V and VI				
Т	20					
W	21	VCAC, 9.30 am Professional Studies Executive Committee, 2 pm Faculty of Engineering, 2 pm				
Th	22	Applied Science Higher Degree Committee, 10 am Architecture Higher Degree Committee, 2 pm				
F	23	Engineering Higher Degree Committee, 10 am				
S	24					
Su	25					
М	26	Executive Committee of Council, 3 pm				
Т	27	Faculty of Science, 2 pm Publication of provisional timetable for annual examinations				
W	28	VCAC, 9.30 am Professorial Board Executive Committee, 2 pm				
Th	29	Applied Science Executive Committee, 10 am Board of Studies in General Education, 2 pm				
F	30	Last day to apply to MUAC for transfer to another university in Sydney metropolitan area				

### October 1977

S1/	Su2				
M	3	8 Hour Day — Public Holiday			
Т	4	Public Relations Committee, 9 am			
		Professorial Board, 10 am			
		Finance Sub-Committee, 2.30 pm			
		Student Affairs Committee, 3.30 pm			
W	5	VCAC, 9.30 am Faculty of Professional Studies, 2 pm			
Th	6	Faculty of Engineering Education Committee, 10 am			
		Faculty of Architecture, 2 pm Australian Graduate School of Management Higher Degree Committee, 2 pm			
F	7	Last day for students to advise of examination timetable clashes			
S Su	8 9				
М	10	Biological Sciences Executive Committee, 2 pm			
		Buildings and Equipment Committee, 3.45 pm Academic Committee, 6 pm			
Т	11	Law Higher Degree Committee, 9.30 am			
		Law Executive Committee, 10.30 am			
w	12	VCAC 9.30 am			
••	12	Faculty of Commerce, 2 pm			
		Medicine Higher Degree Committee, 2 pm			
ть	12	Research and Higher Awards Committee, 10 cm			
	13	Graduation Ceremony, all faculties, 2 pm			
F	14	Military Studies Higher Degree Committee, 9.30 am Military Studies Executive Committee, 10.30 am			
s	15				
Su	16				
М	17	Admissions Committee, 2 pm			
т	18	Science Higher Degree Committee, 2 pm			
W	19	VCAC, 9.30 am			
		Board of Studies in Science and Mathematics, 2 pm			
		Professional Studies Higher Degree Committee, 2 pm			
Th	20	Faculty of Applied Science, 10 am			
		Australian Graduate School of Management Board of Studies, 2 pm			
F	21				
S	22	Third Terms and a French of Military Outline			
<u>Su</u>	23	Third term ends, Faculty of Military Studies			
М	24	Biological Sciences Higher Degree Committee, 2 pm Executive Committee of Council, 3 pm			
Т	25	Faculty of Arts, 2 pm			
		Faculty of Law, 6 pm Publication of timetable for annual examinations			
w	26	VCAC, 9.30 am			
	20	Professorial Board Executive Committee, 2 pm			
Th	27	Applied Science Higher Degree Committee, 10 am Architecture Executive Committee, 2 pm			
F	28	Engineering Higher Degree Committee, 10 am			
s	29				
Su	30				
М	31	Computing Science Committee, 11 am Faculty of Biological Sciences, 2 pm			

### November 1977

т	1	Professorial Board, 10 am			
W 2 VCAC, 9.30 am		VCAC, 9.30 am			
		Commerce Executive Committee, 2 pm			
Th	3	Applied Science Executive Committee, 10 am Faculty of Engineering Education Committee, 10 am Board of Management, Institute of Administration, 2.15 pm			
F	4	Engineering Executive Committee, 10 am			
S	5				
Su	6	Session 2 ends			
M	7				
Т	8	Science Executive Committee, 2 pm			
W	9	VCAC, 9.30 am Professional Studies Executive Committee, 2 pm Faculty of Medicine, 4.30 pm			
Th	10	Research and Higher Awards Committee, 10 am Architecture Higher Degree Committee, 2 pm Australian Graduate School of Management Board of Management, 2.30 pm			
F	11	Military Studies Higher Degree Committee, 9.30 am Faculty of Military Studies, 10.30 am			
S	12				
Su	13				
М	14	Personnel Sub-Committee, 11.30 am Council 2 pm Annual examinations begin			
т	15	Library Committee, 10.30 am Arts Higher Degree Committee, 2 pm			
W	16	VCAC, 9.30 am			
Th	17	Health Personnel Education Committee, 10 am			
F	18				
S	19				
Su	20				
м	21	Admissions Committee, 2 pm			
Т	22	Science Higher Degree Committee, 2 pm			
w	23	VCAC, 9.30 am Medicine Higher Degree Committee, 2 pm Medicine Executive Committee, 3 pm Commerce Higher Degree Committee, 2 pm			
Th	24				
F	25	Engineering Higher Degree Committee, 10 am			
S	26				
Su	27	Term 4 ends — Medicine Years V and VI			
M T	28 29	Biological Sciences Higher Degree Committee, 2 pm			
w	30	VCAC, 9.30 am			
		Professional Studies Higher Degree Committee, 10 am Professorial Board Executive Committee, 2 pm			

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### December 1977

Th	1	Applied Science Higher Degree Committee, 10 am			
F	2				
S	3				
Su	4				
М	5				
T	6	Professorial Board, 10 am Personnel Sub-Committee, 2.30 pm Finance Sub-Committee, 3.15 pm Annual examinations end			
W	7	VCAC, 9.30 am			
Th	8				
F	9	Engineering Higher Degree Committee, 10 am			
S	10				
Su	11				
М	12	Executive Committee of Council, 3 pm			
т	13	Graduation Ceremony, Military Studies			
W	14	VCAC, 9.30 am			
Th	15				
F	16	Research and Higher Awards Committee, 10 am			
S	17				
Su	18				
М	19				
Т	20				
W	21	VCAC, 9.30 am			
Th	22				
F	23				
s	24				
Su	25	Christmas Day			
М	26	Boxing Day — Public Holiday			
Т	27	Public Holiday			
W	28				
Th	29				
F	30				
S	31				

1978				
Faculties other than Medicine	Session	1 (14 weeks)	6 March to 14 May May Recess: 15 May to 21 May 22 May to 18 June Midyear Recess: 19 June to 23 July	
	Session	2 (14 weeks)	24 July to 27 August August Recess: 28 August to 3 September 4 September to 5 November Study Recess: 6 November to 12 November	
	Annual	examinations	13 November to 7 December*	
Faculty of Medicine	First an	d Second Years	As for other faculties	
	Third ar	nd Fourth Years	Term 1 (9 weeks) 23 January to 26 March Term 2 (10 weeks) 3 April to 14 May May Recess: 15 May to 21 May 22 May to 18 June Term 3 (9 weeks) 26 June to 27 August Term 4 (10 weeks) 4 September to 12 November	
	Fifth Ye	ar	Term 1 (8 weeks) 23 January to 19 March Term 2 (8 weeks) 27 March to 21 May Term 3 (8 weeks) 29 May to 23 July Term 4 (8 weeks) 31 July to 24 September Term 5 (8 weeks) 2 October to 26 November	
	Sixth Ye	ear	Term 1 (10 weeks) 23 January to 2 April Term 2 (10 weeks) 10 April to 18 June Term 3 (10 weeks) 3 July to 10 September Term 4 (10 weeks) 18 September to 26 November	
January	M 2 F 6 M 9 F 13 T 24	Public Holida Last day for a Publication of Last day for another cours Term 1 begin Deferred exar	application for renewal of results of annual examinations if timetable for deferred examinations acceptance of applications by Admissions Office to transfer to se within the University as — Medicine III, IV and V minations begin	
February	S 4 T 7 M 13 F 17 M 20 T 21	Deferred example Professorial E Enrolment pe Results of de Enrolment pe Last day for a	minations end Board riod begins for new students and students repeating first year ferred examinations available riod begins for second and later year students applications for review of deferred examination results	
March	M 6 F 24 to M 27	Session 1 be Easter — Puł	gins — all courses except Medicine III, IV and V olic Holiday	
April	T 25	Anzac Day —	- Public Holiday	

\*This period may be varied.

### The Calendar

The Calendar is planned as a summary volume. The Faculty Handbooks are supplementary, giving detailed information about courses, subjects and requirements of a particular faculty (see back cover for details).

The Calendar and Faculty Handbooks wherever possible have been restructured to avoid duplicating information and redesigned to make them not only more attractive but also to assist the reader to find quickly the information he needs. The Calendar contains material common to all faculties, and mainly through its **Index**, readers are directed to particular handbooks for the information they need in expanded form.

### Preface

The University The University, the second to be established in New South Wales, is situated on 38 hectares in Kensington, an inner south-eastern suburb of Sydney. Outside that site it operates a Faculty of Military Studies, located at the Royal Military College at Duntroon in the Australian Capital Territory, the W. S. and L. B. Robinson College at Broken Hill, New South Wales, and has a number of research stations and institutes in other parts of New South Wales.

Particular emphasis is placed on technological and scientific education; the academic areas covered are applied science; architecture; arts; biological sciences; commerce; engineering (civil, mechanical and industrial, electrical engineering, and surveying); law; medicine; military studies; professional studies (including education, health administration, librarianship, social work and industrial arts); and science. A wide range of first degrees, higher degrees and diplomas is offered in these areas and there are appropriate research facilities in these areas. The University also operates a number of research and teaching activities and a national school of management—the Australian Graduate School of Management—which offers higher degree and other courses in management.

The enrolment in 1976 was 18,378 made up of 14,674 proceeding to first degrees, 2,492 to higher degrees and 618 to diplomas and 594 not seeking to proceed to any qualification.

The full-time staff supporting these activities numbers 3,790 of whom 1,386 are teaching and research staff, and 2,404 are library, technical, administrative, clerical and other staff. The Library contains approximately 770,000 volumes.

The University spent approximately \$41 million on the recurrent activities of teaching and research in 1976. There are buildings at a value in excess of \$72 million on the Kensington site.

**Brief History** The University was incorporated by Act of the Parliament of New South Wales in 1949 as *The New South Wales University of Technology*. This name reflected the wish of the founders that the University should place emphasis on science and technology and attempt to meet 'the urgent demand in Australia for increasing numbers of technologists and applied scientists'.

The first courses, leading to the degree of Bachelor of Engineering, were begun in 1948 in civil, electrical, mechanical, and mining engineering. These courses were planned to give students full-time lecture and laboratory instruction at the University for approximately half the year, with planned industrial experience for the remainder. Courses leading to the degree of Bachelor of Science were introduced in applied chemistry and chemical engineering for the 1949 academic year, and in applied physics and wool technology for the 1951 academic year. A first degree course in architecture was established in 1950, and in 1954 a further full-time bachelor of science course (in metallurgy) and a four-year degree course in applied geology leading to the degree of Bachelor of Engineering (Geology) were offered. A four-year full-time bachelor of science course in food technology also began in 1954.

Part-time degree courses were introduced in 1954 in applied biology, applied chemistry, applied geology, chemical engineering, civil engineering, electrical engineering, food technology, general science, industrial chemistry, leather chemistry, mechanical engineering and metallurgy to enable students to remain continuously in employment related to their studies throughout the course. A part-time course was begun in applied psychology in 1955, leading to the degree of Bachelor of Science in psychology.

In 1957 both full-time and part-time courses leading to the degree of bachelor of commerce and providing for specialization in accountancy, economics, statistics or applied psychology were begun. At the same time the full-time degree courses in textile technology and industrial engineering and hospital administration were also begun.

Although emphasis on science and technology remained a major objective, the University decided in 1958 that it should broaden its academic scope to include studies in the fields of humanities and medicine. Changes were made to the Act of Incorporation in 1958 and the name of the University changed to The University of New South Wales. Degree courses were begun in 1960 in arts, in 1961 in medicine, and in 1971 in law; in 1977 higher degree and other courses begin in management.

The act incorporating the University gives the Council power to establish colleges and departments within the State of New South Wales. Under these powers a college was established in 1951 at Newcastle (it became the independent University of Newcastle in 1965) and a college was established in 1962 at Wollongong (it became the University of Wollongong in 1975). The University continued to use these powers to provide an academic organization for the Royal Military College at Duntroon and the W. S. and L. B. Robinson College at Broken Hill.

The University is governed by a council of forty-two members representing the State Parliament, industry and commerce, agriculture, the trade unions, technical education, professional bodies, teaching staff and the undergraduates and graduates of the University. The principal academic body is the Professorial Board which receives advice on academic matters from the faculties of applied science, architecture, arts, biological sciences, commerce, engineering, law, medicine, military studies, professional studies and science. The faculties are responsible for the teaching and examining of subjects within their scope and the Professorial Board co-ordinates and furthers the work of the faculties.

The chief executive officer of the University is the Vice-Chancellor and Principal who is assisted by three Pro-Vice-Chancellors. The administrative work of the University is divided between the Registrar, the Bursar and the Business Manager (Property). In addition to management duties each divisional head advises the Vice-Chancellor and Pro-Vice-Chancellors.

There are ten full-time Deans (one of each faculty) who have considerable delegated power in relation to the affairs of their faculties.

#### Government

### Form of Bequest

**Donations and Gifts** to the University Since its foundation in 1949 the University of New South Wales has played an important role in tertiary education and, through its teaching and research, has contributed to the prosperity and development of industry and commerce in New South Wales and indeed throughout Australia. The quality of community life of the individual has also been enhanced by its work in medicine, environmental studies, engineering, the sciences and the humanities. While it receives a large measure of support from governments, the University relies to a considerable extent on funds from other sources to maintain and expand its research and to provide facilities for students and, also, to give it that additional measure of independence and freedom so necessary for the continuation of research and teaching.

In this context, as in the past, the benefactions of far-sighted individuals and companies foster the University's independent advancement. For convenience a suggested form of bequest which may be used by an intending benefactor is set out below:

'I give to the University of New South Wales the sum of \$..... which I direct to be paid free from all duties thereon to the Vice-Chancellor of the said University and to be applied for the purposes of the University in such manner as the Council thereof may determine.'\*

It is desirable that any request as to the application of a bequest be expressed in terms as general as possible unless, of course, previous consultation has taken place with a representative of the University. Otherwise the University may be hampered in carrying out the real intention of a testator by detailed directions which become unsuitable in some future conditions.

A bequest to the University frequently takes the form of shares and inscribed stock. It is suggested that intending benefactors may care to consider making the necessary legal arrangements to permit the University to invest in a wide range of securities, thus allowing the University to protect the bequest against monetary depreciation.

This particular provision could be made in the following form:

'In addition to its express powers of investment, the University may invest moneys, the subject of this bequest, and any income earned thereon in shares, stocks, bonds, notes, debentures or other securities or obligations of any company which is listed on any Stock Exchange in Australia.'

\* Any request or conditions which the testator may wish to be attached to the bequest may be added here.

A bequest to the University is at present exempt from the payment of death duty and estate duty.

Gifts (not being testamentary gifts) of the value of two dollars and upwards of money, or of property other than money which was purchased by the taxpayer within twelve months immediately preceding the making of the gifts, and made by the taxpayer in the year of income, are at present allowable taxation deductions under a provision of the Income Tax Assessment Act (Commonwealth). Death Duty and Estate Duty

## The University of New South Wales

#### Chancellor

The Hon. Mr Justice Samuels, MA Oxon.

**Deputy Chancellor** Francis Mackenzie Mathews, BE Syd., Hon. DSc N.S.W., FSTC

#### Vice-Chancellor and Principal

Professor Rupert Horace Myers, CBE, MSc PhD Melb., Hon. LLD Strath., Hon. DSc W'gong., FIM, FRACI, FAIM, MAusIMM

#### **Pro-Vice-Chancellors**

Professor John Basil Thornton, BA BSc Syd.

Professor Rex Eugene Vowels, ME Adel., SMIEEE, CEng, FIEAust, MIEE

Professor Albert Henry Willis, DSc(Eng) Lond., CEng, FIMechE, FIEAust, MemASAE, WhSc

### **The Council**

Lindley John Forbes Barraclough, MLA

Sidney Edgar Barratt, MBE, MIProdE

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Professor of Pastoral Sciences Haydn Lloyd Davies, PhD W.Aust., BSc Wales, MAIAS

#### Associate Professors

John Patrick Kennedy, MSc N.S.W., BSc Oxon., MAIAS Walter Raghnall McManus, BScAgr Syd., PhD N.S.W., MAIAS Euan Maurice Roberts, MAgrSc N.Z., PhD N.S.W., MAIAS Kenneth James Whiteley, BSc N.S.W., PhD Leeds, MAIAS

## Administrative Assistant

John Edward Lawrence

Professor of Architecture and Head of Department of Graduate Studies

John Christopher Haskell, DipTP Lond., MArch Natal, Rome Scholar, RIBA, FRTPI, ARAIA

Professor of Architecture and Head of Department of Undergraduate Studies Eric Charles Daniels, MArch N.S.W., ASTC, FRAIA, Hon.MIES

Professor of Landscape Architecture and Head of Department Peter Spooner, DipLD Durh., ASTC, FRAIA, FILA, FAILA, ARIBA

Associate Professors

Neville Joseph Anderson, BArch Syd., MArch Liv., DipTP Lond., FRAIA, MRTPI Laszia Peter Kollar, MArch N.S.W., ASTC, FRAIA Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS

#### Administrative Officer Randall Watkins, DipTech N.S.W.I.T., MRIPA

#### Senior Lecturers

Richard Eric Apperly, BArch *Syd.*, MArch *N.S.W.*, ARAIA Ronald Douglas Chalmers, BSc(Eng) *Lond.*, MIEAust, AAIB James Conner, DipArch(Aberd.), MArch *N.S.W.*, FRAIA, ARIBA, ARIAS Robert G. Head, MSc(Building) *N.S.W.*, ASTC, FRAIA Peter Thomas Oppenheim, BArch *Cape T.*, MArch PhD *N.S.W.*, ARIBA, ARAIA Sidney Charles Palmer, BArch *Syd.*, MArch *N.S.W.*, FRAIA, ARIBA Arthur Edgcombe Rupert Purkis, MArch *N.S.W.*, FRAIA, ARIBA Nancy Claire Rodgers, BArch *N.Z.*, MBdgSc *Syd.*, FIEC, ANZIA, ARAIA Clive William Stevens, MArch *N.S.W.*, FRAIA Kenneth James Wyatt, BE *Qld.*, MBdgSc *Syd.*, MIEAust

#### Lecturers

John Albyn Ballinger, BArch Adel., ARAIA Chris LeRoy Bell, BA(Arch) Calif. Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC, MRAPI, ARAIA Geoffrey Lindsay Dwyer, ARAIA Richard Grantley Fitzhardinge, DipArch (Kingston on Thames Poly.), MArch Calif., ARIBA, ARAIA John Barrie Fraser, DipArt(Ed) Peter Hale, BArch N.S.W., ARAIA Graeme Ross Hewett, ASTC, ARAIA Richard Hough, BSc BE N'cle.(N.S.W.), MEng Tor., MIEAust Robert Charles Lewis Irving, ARMTC, FRAIA Paul Alan Johnson, BArch Syd., DipCD N.S.W., ARAIA Nicholas Marinov, DipArch Prague Lorna Muir Nimmo, ASTC, FRSA Ian Roy Patrick, ASTC, ARIBA, ARAIA

## **Faculty of Architecture**

Comprises Schools of Architecture, Building, and Town Planning.

Dean Professor G. E. Roberts

Chairman Professor J. M. Freeland

Executive Assistant R. E. Apperly

Senior Administrative Officer Brian John Newell, BCom N.S.W.

### **School of Architecture**

Professor of Architecture and Head of School

Gareth Edward Roberts, BArch MCD Liv., FRAIA, FRAPI, MRTPI, ARIBA

#### **Professor of Architecture**

John Maxwell Freeland, DFC, MArch DTRP Melb., MArch DLitt N.S.W., LFRAIA, FRSA

### Calendar

Peter Reginald Proudfoot, BArch *Syd.*, MArch *Penn.*, PhD *N.S.W.*, Rome Scholar Peter Leggett Reynolds, BArch PhD *N.S.W.* Vinzenz Franz-Josef Sedlak, DiplIngArch. *T.U. Graz*, MPhil *Sur.* Warren Albert Selle, BArch *Syd.*, FRAIA Harry Anthony Stephens, BArch DipLD *N.S.W.*, ARAIA Kwong Hon Tang, BArch *H.K.*, MArch *Melb.*, ARIBA, ARAIA Brian Woodward, DipLArch *Oxon.*, RIBA

#### Senior Tutors

Victor Martin Berk, BArch, DipAdmin *N.S.W.* Marion Anne Burgess, BSc *Syd.*, MSc(Acoustics) *N.S.W.*, MAAS Elizabeth Ann Howard, BArch *Syd.*, BA *Macq.* Geoffrey Kenneth Le Sueur, BArch *N.S.W.* Paul Edward Walsh, BArch *N.S.W.* 

#### Tutors

John Robert Kinstler, BArch *Syd.* George Michael Rich, BArch *N.S.W.* Richard Ralph Winterton, BA DipArch *Camb.*, RIBA

#### Senior Lecturers

Charles Walter Anderson, MBuild *N.S.W.*, ASTC, FAIB John Malcolm Hutcheson, MC, BE *Syd.*, BCom *Qld.*, MBA *N.S.W.*, FIEAust, FID, FAIA, AAUQ, LGE, AASA(Snr), AFAIM, AAIB Allan Alexander Jack, MBuild *N.S.W.*, ASTC, FAIB

Graham Edward Levido, BBuild MSc(Building) N.S.W., AAIB

#### Lecturers

Ojars Indulis Greste, ME *N.S.W.*, DEng *Calif.* David Nevil Hume Hassall, BE MBdgSc *Syd.*, MIEAust Bruce Hadford Hawkins, BE *W.Aust.* Martin Marosszeky, BE *N'cle.(N.S.W.)*, MEngSc *N.S.W.*, MIEAust James Francis Mooney, ASTC, FIQSA Clyde Donald Smythe, MBuild *N.S.W.*, ASTC, AAIB

#### Tutor

Carol Rose Edds, BBuild N.S.W.

#### **Department of Landscape Architecture**

Senior Lecturer Finn Christopher Thorvaldson, BArch N.S.W., MLArch Mich., ARAIA, AAILA

#### Lecturers

Sydney Allison Baggs, MArch DipLD *N.S.W.*, ASTC, FRAIA, AAILA, RIBA Truda Mary Howard, BSc PhD *Melb.* Russell Colin Smith, DipLD *N.S.W.*, ASTC, FRAIA, AAILA

## **School of Town Planning**

Professor of Town Planning and Head of School John Henry Shaw, BE DipTCP Syd., MCD Liv., PhD N.S.W., FRAPI, MRTPI, MIEAust

#### Associate Professor

Elias David Duek-Cohen, MA Oxon., BArch Liv., DipTP Lond., FRAPI, MRTPI, ARIBA, ARAIA

#### Senior Lecturers

James Leslie King, BArch MTCP Syd., FRAPI Zula Nittim, BArch Melb., DipCD PhD N.S.W., FRAIA

#### Lecturers

Douglas Robert Daines, DipTCP Syd., MRAPI, ACIV Stephen Harris, BTP N.S.W. Neville Thomas Schaefer, BA N.E., PhD N.S.W. Robert Bolles Zehner, BA Amh., MA PhD Mich.

## **School of Building**

Professor of Building and Head of School \*Emery Balint, MCE *Melb.*, FIEAust, FICE, FAIB, HonFAICS

#### Associate Professor

Roger Mark Anthony Miller, BBuild N.S.W., SM CE M.I.T., AAIB

\*Retired from the University 29 December 1976.

Senior Lecturers

Victor Eugene Emeljanow, MA N.Z., PhD Stan. Oliver Fiala, BA MEd DipEd Syd., PhD Colorado, MACE Philip Edward Parsons, BA W.Aust., MA PhD Camb. Marie-Louise Mathilde Thiersch, MA Adel., PhD N.S.W. Jean Wilhelm, AB Smith, MA West Virginia, PhD Minn.

Lecturers

Peter Rene Gerdes, PhD Basle John Duncan Golder, BA R'dg., MA Brist. Margaret Anne Williams, BA Melb., PhD Monash

Tutors Timothy Fitzpatrick, BA Syd. David Marshall Martin, BA St. Bernard Coll., Alabama, MFA Fla. S.U. William Pollak David Mitchell Watt, BA Monash

## **Faculty of Arts**

Comprises Schools of Drama, English, French, German, History, History and Philosophy of Science, Philosophy, Political Science, Russian, Sociology, Spanish and Latin American Studies. The following Schools are members of the Faculty: Economics, Mathematics and Psychology.

## Dean

Professor F. K. Crowley

Chairman Professor O. N. Burgess

Executive Assistant Associate Professor A. A. Congalton

Administrative Assistant René Roger Karrer, BA N.S.W.

Research Assistant Jacqueline Ilbery, BA N.S.W.

## **School of Economics**

See Faculty of Commerce.

## **School of English**

Professor of English and Head of School Harold James Oliver, MA Syd., FAHA

Professor of English Oliver Neil Burgess, MA DipEd Syd.

Associate Professors Ronald George Geering, MA DipEd Syd. Harry Payne Heseltine, BA W.Aust., MA PhD Louisiana State

## **School of Drama**

Professor of Drama and Head of School Cecil Robert Burnet Quentin, MA Oxon. Senior Lecturer James Michael Allen, BA Rand and Oxon.

#### Lecturers

Mary Elizabeth Chan, MA Victoria, PhD Cantab., LTCL Michael Joseph Crennan, MA Melb. Roslyn Doris Haynes, BSc Syd., MA Tas., PhD Leic. Anthony John Bruce Johnson, MA Adel., PhD Lond. Denise Desiree Harding Kalfas, BA Syd., MA Oxon., DipClassArchaeol Oxon. Richard Elton Raymond Madelaine, BA Adel., PhD Lond. Janet Christine Walker, MA Syd.

#### Senior Tutor

Pauline Ethel Watson, BA DipEd Syd., MA N.S.W.

#### Tutors

Eleanore Margaret Bradstock, BA DipEd Syd., MA Macq. Robyn Ann Graham, BA N.S.W. Marlene Ann Hall, BA Syd. Rosalind Ann Pitman, BA N.E. Louise Katherine Wakeling, BA N.S.W., DipEd N.E., MA Adel.

### **School of German**

Professor of German and Head of School John Rowland Milfull, BA PhD Syd. 1

Senior Lecturer Gero Max von Wilpert

Lecturers Gerhard Fischer, MA St. Cloud, PhD N.Y. State Bernd Rüdiger Hüppauf, DrPhil Tübingen Konrad Kwiet, DrPhil habil F.U. Berlin Olaf Günter Reinhardt, BA PhD Syd. Margaret Anne Rose, BA PhD Monash Harry Leonard Simmons, BA W.Aust., PhD A.N.U.

## **School of History**

Professor of History and Head of School Francis Keble Crowley, MA PhD Melb., DPhil Oxon., FAHA

## **School of French**

#### Professor of French and Head of School

Jean Stephane Jacques Roger Henri Chaussivert, LèsL Paris, MèsL Poitiers

#### Senior Lecturer

Michael John Freyne, MA N.Z., LèsL Paris, DèsL Paris-Sorbonne, Dipl.d'Et. Prat.(Phon.) Paris

#### Lecturers

Maurice John Blackman, BA Syd., PhD N.S.W. Emmeline Marie Josette Boothroyd, BA Syd. Alan Lawrence Chamberlain, BA DipEd Syd., DU Paris Anthony Stewart Newman, BA DipEd Syd., DU Besançon Vera Sauran, LSCPol Paris, PhD N.S.W.

#### Tutors

Hannelore Renate Elfrieda Sheehan, BA PhD Melb., LèsL Aix-en-Provence Luciana Josephine Trojer, BA N.S.W., MèsL Paris-Sorbonne Professor of History Patrick James O'Farrell, MA N.Z., PhD A.N.U.

#### Associate Professor

Kathleen Nellie Woodroofe, MA PhD Adel.

#### Senior Lecturers

lan Donald Black, BA Adel., PhD A.N.U. Richard Ian Cashman, BA Syd., MA Monash, PhD Duke Beverley Rhonda Kingston, BA Qld., PhD Monash

#### Lecturers

Ian James Bickerton, BA Adel., MA Kansas, PhD Claremont Colls.
Philip Sidney Edwards, BA Lond., PhD Camb.
Frank Farrell, BA A.N.U., DipEd Canberra C.A.E., PhD A.N.U.
Alan David Gilbert, MA A.N.U., DPhil Oxon.
Maxwell Vernon Harcourt, MA W.Aust., PhD Sus.
John Edward Ingleson, MA W.Aust., PhD Monash
Marian Ruth Kent, BA N.Z., BA PhD Lond.
Michael Matthew McKernan, BA A.N.U., PhD Mich.
Jürgen Tampke, BA Macq., PhD A.N.U.
Ian Robert Tyrell, BA Qld., MA PhD Duke

Tutors

Benedict Francis Kiernan, BA Monash Helen Rosemary King, BA N.S.W. Anthony William Mitchell, BA Manc. Nguyen Pham Dien, BA A.N.U. Carolyn O'Brien, MA Qld. Andree Margaret Wright, BA N.S.W.

## **School of Philosophy**

Professor of Philosophy and Head of School Charles Leonard Hamblin, BSc MA Melb., PhD Lond.

#### Senior Lecturers

Richard Eric Dowling, BA Syd., PhD Lond. Peter Cornwallis Gibbons, BA Syd., BPhil Oxon. Raymond Steven Walters, MA Syd.

#### Lecturers

Stephen Cohen, AB *Brandeis*, MA PhD *Chic*. Francis Neil Harpley, BA *Syd*. Barbara Anne Roxon, BA *Syd*. Frank Vlach, MA PhD *Calif*.

## School of History and Philosophy of Science

#### Professor of History and Philosophy of Science and Head of School

Jarlath Ronayne, MA Dub., PhD Camb.

#### Professor of History and Philosophy of Science John Basil Thornton, BA BSc Syd.

Senior Lecturers

Robert Mortimer Gascoigne, MSc Syd., PhD Liv. William Hilton Leatherdale, BA Melb., PhD N.S.W.

#### Lecturers

William Randall Albury, BA PhD Johns H. Guy Allard Freeland, BA PhD Brist., CertHist&PhilosSci Camb. David Roger Oldroyd, MA Camb., MSc Lond., PhD N.S.W. John Richard Saunders, BSc Sus., PhD N.S.W.

Senior Tutor Nessy Allen, BA DipEd N.S.W.

#### Tutors

John Carey Forge, BA Cornell, DipEd McG., MA Lond. Paul Stuart Foss, BPharm Syd., MSc Syd.

## **School of Mathematics**

See Faculty of Science.

## **School of Political Science**

Professor of Political Science and Head of School Douglas MacRae McCallum, BA Syd., MA BPhil Oxon.

#### Professor Preston King, BA Fisk, Tennessee, MSc PhD L.S.E.

Associate Professor Owen Harries, BA Wales, MA Oxon.

Senior Lecturers Donald Richmond Horne Anthony Creedon Palfreeman, LèsScPol Geneva, MA A.N.U.

#### Lecturers

Adrian Man-Cheong Chan, BA Syd., PhD A.N.U. Conal Stratford Condren, MSc(Econ.) PhD Lond. Sailesh Chandra Ghosh, BA Dacca, MA Calc., MSocSc Inst.Soc.Stud., The Hague, PhD Manc. Hartmut Kopsch, BA Sheff., MA Br.Col., PhD Lond. Frederick Alexander Mediansky, BA San Francisco, PhD Syd. John Barrington Paul, MA Melb. George Shipp, MEc Syd. Elaine Vera Thompson, BEc PhD Syd. Tutors Ross Andrew Edward Fitzgerald, BA *Monash*, MA *Case W.R.*, PhD *N.S.W.* Damian John Grace, BA *N.S.W.* Robert John Griffin, BA *N.S.W.* Nora Frida Isert, BA *Syd.* 

Research Assistant Elizabeth Jane Ellis, BA N.S.W., DipEd. Syd.

## **School of Psychology**

See Faculty of Biological Sciences.

## **School of Russian**

Professor of Russian and Head of School Tatjana Cizova, BA Syd. and Lond., DiplSlavStudies Oxon.

Senior Lecturer Michael Ulman, Diplom Leningrad State Univ.

#### Lecturers

Zhanna Dolgopolova, Diplom Gersten Pedagog.Inst., Leningrad Barry Edward Lewis, BA MPhil Leeds

#### Senior Tutor

Victoria Gantimourova, CandCommScis Inst. Oriental & Comm. Scis, Harbin

## **School of Sociology**

Professor of Sociology and Head of Schort Colin Roy Bell, BA Keele, MScEcon Wales

Professor

Solomon Encel, MA PhD Melb.

Associate Professor Athol Alexander Congalton, MA DipEd N.Z.

Senior Lecturer Stephen Oliver D'Alton, MEc Syd., PhD N.S.W.

#### Lecturers

Michael Paul Bittman, BA *N.S.W.* William John Bottomley, BA *Syd.* Bettina Cass, BA *N.S.W.* Alexander Kondos, BA *W.Aust.* Terence Sean Leahy, MA *Car.* Frances Hewlett Lovejoy, BSc BCom *Qld.*, MAgEc *N.E.* Alexander Francis Mamak, BA *Calif.*, MA PhD *Hawaii* Grant Edwin McCall, BA *Calif.* and *San Francisco*, BLitt *Oxon.* Hannah Elina Middleton, BA *Lond.*, PhD *Berlin East* John Joseph Ray, MA *Syd.*, PhD *Macq.* Henrietta Resler, BA *N.S.W.* James Stanley Ward, BA *Calg.*, BPhil *Liv.*, PhD *Maryland* 

Tutors

Eva Maria Cox, BA *N.S.W.* Mira Crouch, BA *Syd.* Ann Emily Macken, BEc *Syd.* David Allen Roberts, BSc(Soc) *Lond.*, PGCE *Liv.* 

Research Assistant Tiina Pill, BA City, N.Y.

# School of Spanish and Latin American Studies

Professor of Spanish and Head of School Robert Johnson, MA Camb.

#### Senior Lecturers

James Robert Levy, MA Col., PhD Penn. Luis Alberto Vargas Saavedra, MA Chile, PhD Madrid

#### Lecturers

Jane Yankovic Bandler, BA *Chatham*, MA PhD Yale John Thomas Brotherton, BA PhD *Birm*. Stephen William George Gregory, MA Sheff. John Stevenson, MA *Essex* and *Lond*. Senior Tutors Alan Robert Pierre Journet, BSc *Wales*, PhD *McG*. Helen Patricia Ramsay, MSc PhD *Syd*.

Tutors

Alison Jean Gilbert, BAppSc *Darling Downs I.A.E.* Carolyn Jean Jeffery, BSc *Qld.* William Bernard Kilkeary, BSc *Syd.* Gillian Sylvia Stephens, BScAgr *Syd.* 

Professional Officer Anthony Ross Smith-White, BSc Syd.

Research Assistant Julia Steinborn, BSc Syd.

## Faculty of Biological Sciences<sup>\*</sup>

Comprises Schools of Psychology, Biological Technology, Biochemistry, Botany, Microbiology and Zoology.

Dean

Professor B. J. F. Ralph

Chairman Professor S. H. Lovibond

Administrative Officer Patrick James MacGinley, BA N.S.W.

Professional Officers Rose Ann Varga, BSc N.S.W. Peter Whaite, BE N.S.W.

## School of Biochemistry

Professor of Biochemistry and Head of School Edward Owen Paul Thompson, MSc DipEd Syd., PhD ScD Camb., ARACI

Professor of Biochemistry Barry Vaughan Milborrow, BSc PhD DSc Lond., FLS, FIBiol

Professor of Medical Biochemistry William James O'Sullivan, BSc W.Aust., PhD A.N.U.

#### Associate Professors

John Bruce Adams, MSc Syd., PhD N.S.W., ARACI Keith Guenther Rienits, MSc Syd., PhD Birm. Philip John Schofield, BSc PhD N.S.W.

## **First Year Biology Teaching Unit**

Director Dr A. E. Wood

#### \*Board of Studies in Science and Mathematics.

The Board of Studies in Science and Mathematics includes all members of the Faculty of Biological Sciences and the Faculty of Science, and some members of specific Schools in other faculties contributing to the Science and Mathematics Course: Applied Geology, Chemical Technology, Geography (Applied Science); History and Philosophy of Science, Philosophy, Sociology, Political Science (Arts); Economics (Commerce); Electrical Engineering, Mechanical and Industrial Engineering (Engineering); Anatomy, Community Medicine, Physiology and Pharmacology, Surgery (Medicine); Education (Professional Studies); and the Department of General Studies (Board of Studies in General Education).

### Calendar

Senior Lecturers Kevin David Barrow, MSc PhD Adel. Antony George Mackinlay, MSc PhD Syd.

#### Lecturers

Aldo Sebastion Bagnara, BSc PhD *Melb.* Michael Richard Edwards, MA PhD *Camb.* Ian James McFarlane, BSc PhD *Syd.* Kenneth Edward Moon, BSc PhD *N.S.W.* Thomas Stanley Stewart, BSc *Syd.*, PhD *N.S.W.* Roy Tirrell, BSc *Syd.*, PhD *N.S.W.* George Zalitis, BSc PhD *W.Aust.* 

Senior Tutor Jill Lorraine Gibbons, BSc Syd.

#### Tutors

Pamela Frances Como, BSc A.N.U. Swee Leong Pun, BSc N.S.W. Wayne Keith Willis, BSc N.S.W.

#### **Teaching Fellows**

David Pavin Chandra, BSc N.S.W. Ming San Foo, BSc N.S.W. Arthur Brian Jenkins, BSc Qld. Peter Henry Leighton, BSc N.S.W. Karen Kwat Har Li, BSc N.S.W.

#### Professional Officers

Antonio Luiz d'Assumpcao, BSc Syd. Walter Samuel Golder, BPharm MSc PhD Syd., ASTC, DipMedTech, MPS Wayne George Kelly, MSc N.S.W. Choy Soong Daniel Lee, MSc N.S.W. Andrew George Netting, BSc PhD N.S.W.

## **School of Biological Technology**

Professor of Biochemistry and Head of School Bernhard John Fredrich Ralph, BSc Tas., PhD Liv., FRACI

#### Associate Professor

Pamela Athelie Deidre Rickard, BSc Syd., MSc N.S.W., PhD Lond.

Senior Lecturer Peter Lindsay Rogers, BE Adel., DPhil Oxon.

Lecturers Noel William Dunn, MSc Melb., PhD Monash Peter Philip Gray, BSc Syd., PhD N.S.W. David Edward Tribe, BSc Melb.

Professional Officers Thomas Babij, BSc Syd., MSc N.S.W., ARACI Robert Barrie Doble, BSc N.S.W. Ching Lien Wong, MSc PhD N.S.W.

## School of Botany

Professor of Botany and Head of School Derek John Anderson, BSc Nott., PhD Wales

#### Associate Professors

Mary Maclean Hindmarsh, BSc PhD Syd. Haydn John Willetts, MSc Brist., PhD N.S.W.

#### Senior Lecturers

Michael John Kempster Macey, BSc Lond., MSc PhD N.S.W. John Henry Palmer, BSc PhD Sheff., FIBiol Christopher John Quinn, BSc Tas., PhD Auck. Robert Stanley Vickery, BScAgr PhD Syd.

#### Lecturers

Anne Elizabeth Ashford, BA *Camb.*, PhD *Leeds* Stephen Francis Delaney, BSc *Sheff.*, PhD *Liv.* Robert John King, BSc DipEd PhD *Melb.* John Teast Waterhouse, BSc *Syd.*, MSc *N.S.W.*, MSc *R'dg.*, FLS Alec Edward Wood, BScAgr *Syd.*, PhD *N.S.W.* 

Tutor Jane Tarran, BSc DipEd N.S.W.

Professional Officer Milos Kratochvil, IngAgr Prague

#### **Honorary Associates**

Lawrence Alexander Sidney Johnson, BSc DSc Syd. Spencer Smith-White, DScAgr Syd., FAA

## **School of Microbiology**

Professor of Medical Microbiology and Head of School Geoffrey Norton Cooper, MSc PhD Melb.

Professor of Microbiology Kevin Charles Marshall, BScAgr Syd., MS PhD Corn.

Associate Professor Anthony John Wicken, BSc PhD Cape T., MA Camb., FNZIC, ARIC

#### Lecturers

Yvonne Marie Barnet, BScAgr Syd., PhD N.S.W. Iain Couperwhite, BSc PhD Strath. Brian James Wallace, BSc PhD Melb.

Senior Tutor Basil Patrick McBrien, MSc N.S.W., ASTC

Tutor Barbara Lillian Blainey, BSc Melb.

Professional Officers Beverley Humphrey, BSc Syd. Mary Essic Johnsen, BSc Qld. Kenneth Gerard Kenrick, FAIMLT Marshall Henry Maxwell Wilson, BSc N.S.W.

#### **Medical Microbiology**

#### Senior Lecturers

Royle Anthony Hawkes, BScAgr Syd., PhD A.N.U. Graham Douglas Fischer Jackson, BSc PhD Adel. Adrian Lee, BSc PhD Melb.

Senior Tutor Elizabeth Hazel Hegarty, MSc Qld.

#### Tutors

Hazel Marjory Young, BSc Strath. Nerissa Glenda Hartwig, BSc Adel.

Honorary Associate (School) Phyllis Margaret Rountree, DSc Melb., DipBact Lond.

## **School of Psychology**

Professor of Psychology and Head of School Laurence Binet Brown, MA DipEd N.Z., PhD Lond.

Professor of Psychology Sydney Harold Lovibond, BA Melb., MA PhD DipSocSc Adel.

Professor of Psychology Vacant

Associate Professor Donald McNicol, BA Adel., PhD Camb.

Administrative Officer Trevor John Clulow, BA N.S.W.

Senior Lecturers Stephen Bochner, BA Syd., MA Hawaii, PhD N.S.W. Alexander Edward Carey, BSc Lond. Evan Edwin Davies, MA Syd., PhD N.S.W. Keith Raymond Llewellyn, BA PhD Syd.

#### Lecturers

Kevin Douglas Bird, BSc PhD N.S.W. James Christopher Clarke, MA N.Z., PhD N.Y. State (Stony Brook) Patrick John Cleary, BSc Qld., PhD N.S.W. Sydney Engelberg, BA Rand., MS Hebrew Univ. of Jerusalem, MA PhD N.Y. State Austin Sorby Faust-Adams, BA Adel., MA PhD Mich. William Taylor Hardy, BA Claremont, MA PhD Calif. William Hopes, BA Syd. Edward James Kehoe, BA Lawrence, MA PhD Iowa Charles Porter Kenna, BA BSc Syd. Thomas Angus McKinnon, MA PhD Syd. John Cunningham Murray, BA Syd. George Paxinos, AB Calif., MA PhD McG. John Eaton Taplin, BSc PhD Adel. Reginald Frederick Westbrook, MA Glas., DPhil Sus.

Teaching Fellow Luther Coleman Jones, BS *Texas* 

#### Tutors

William Gordon Adams, BSc *N.S.W.* Peter James Brandon, BA *N.S.W.* Elizabeth Anne Kennedy, BA *Syd.* Carmen Christine Moran, BA *N.S.W.* Frank Rowland Pace, BA *W.Ont.*, MA Sask. Glenn Peter Richard, BSc *Glas.* Sherrill Spears, BA *N.S.W.* Vaegen, BA *Syd.*, MSc *Monash* Shirley Anne Walls, BA *N.S.W.* Marie Jeanette Waterhouse, BA *Melb.* 

#### Graduate Assistants

June Rosemary Martin, MSc N.S.W. Noel Margaret Wilton, BSc N.S.W.

Professional Officer Angus John Fowler, BSc N.S.W. Professional Officers Beverley Anne Ellis, BSc N.S.W. Ladislaus Lehoczky, MD Szeq

Honorary Associate Ronald Strahan, MSc W.Aust., FSIH

Honorary Fellow Judith Everleigh Marlow, BSc Lond.

## **School of Zoology**

Professor of Zoology and Head of School Terence John Dawson, BRurSc PhD N.E.

#### Senior Lecturers

Charles Keith Goddard, BSc *Edin.*, PhD *St.And.* Robert John MacIntyre, MSc *Cant.*, PhD *McG.* Aola Mary Richards, MSc PhD *N.Z.* Eleanor Margret Russell, BSc *Qid.*, PhD *Camb.* Erik Shipp, BSc *Syd.*, PhD *N.S.W.* 

#### Lecturers

Michael Lane Augee, BSc Willamette, PhD Monash Francis Norman Carrick, BSc N.S.W. Rossiter Henry Crozier, MSc Melb., PhD Corn. Peter Greenaway, BSc PhD N'cle. (U.K.) Clifford John Francis Harrop, BSc Adel., PhD Camb. Arthur Woods, MA Oxon., FRES, MIBiol

#### Senior Tutor

Patricia Irene Dixon, BSc PhD N.S.W., DipEd Syd.

#### Tutor

Barbara Millicent Bohdanowicz, BSc DipEd Syd.

#### **Teaching Fellows**

Duncan Walker McArthur, BSc Strath. Graham Alexander Settle, BSc Syd.

### **School of Accountancy**

Professor of Finance, Head of School of Accountancy and of Department of Finance

Rex Charles Olsson, BEc Syd., MBA PhD N.Y., FASA

Professor of Information Systems Cyril Henry Putnam Brookes, BE MEngSc Syd., DPhil Oxon., MIEAust

Professor of Accountancy and Head of Department of Management Accounting and Information Systems Athol Sprott Carrington, MCom N.Z., FASA, FCA(NZ), CMANZ, FCIS

Professor of Accountancy Ronald Ma, BCom Lond., MBA Br.Col., FCCA, FASA

Professor of Accountancy and Head of Department of Legal Studies and Taxation John Lawrence Ryan, BA St. Thomas, BCL NewBr., PhD Lond.

Professor of Accountancy and Head of Department of Financial Accounting William James McKelvie Stewart, BA BCom Melb., FASA

Professor of Accountancy Vacant

Executive Assistant Ronald Gordon Dryen, BA N.S.W., FASA

Administrative Assistant Olga Chaplin, BA *N.S.W.* 

#### **Department of Finance**

#### Lecturers

Anthony Dante Castagna, BCom N'cle.(N.S.W.), MBA PhD N.S.W., AASA(Senior) Leonard Greenwood, BSc Melb., MPhil MBA PhD Col. Gabriel Noti, BE BSc Syd., Dip ENA (Finance and Economics) Paris, MBA PhD N.S.W. Toan My Pham, BEc Tas., MCom N.S.W., AASA(Senior) Michael Thomas Skully, BSBA Arizona, MBA Utah, DipEcon Stockholm, AASA, ACIS, ASIA Walter Stephen Van der Mye, BCom N.S.W., AASA(Senior)

## **Faculty of Commerce**

Comprises Schools of Accountancy, Economics, Marketing, The Department of Behavioural Science and The Graduate School of Business.

Dean Professor A. S. Carrington

Chairman Professor R. A. Layton

Professor of Business Administration and Co-ordinator of Interdisciplinary Graduate Studies Neville Reginald Wills, BEc MSc Syd., FRGS Lond.

Executive Assistant to the Dean (Student Counselling and Guidance) Associate Professor G. Howitt

Senior Administrative Officer Anthony Michael McNamara, BA Syd.

Administrative Assistant Ethel June Hing, BEc Syd.

#### **Programming Unit**

Professional Officer Kenneth John Schofield, BSc BE N.S.W.

Programmer Graham William Starkey, BSc N.S.W. Senior Tutor Stephen Ross Bishop, BEc Monash, AASA

#### Department of Management Accounting and Information Systems

#### Associate Professors

Walter Leonard Burke, BA BEc Syd., FASA, ACIS Phillip John Grouse, MSc Syd., BD Lond., ThL

#### **Department of Financial Accounting**

#### Senior Lecturers

Anthony Ashley Forster, BEC Syd., FASA, FCA, FCIS, FSIA, CIA David Joseph Fraser, BEC Syd., MCom N.S.W., FCA, AASA(Senior), ACIS Victor Michael Levy, BEC Syd., AASA, ACIS Malcolm Conrad Miller, MCom N.S.W., AASA(Senior), ACA, ACIS

#### Lecturers

Brian Booth, BCom Q/d., MCom N.S.W., AASA(Senior), AAUQ
Peter Hadfield Eddey, MCom N.S.W., AASA(Senior)
Nina Kingston, MCom N.S.W., DipCom Syd., AASA
David Alexander McDonell, BCom N.S.W., AASA(Senior), ACA
Richard Donald Morris, BCom Q/d., MBA N.S.W., AAUQ(Prov.),
AASA(Senior)
Marcus John O'Connor, BCom N.S.W., AASA
Alexander James Pekin, BCom Melb., MCom N.S.W.,
MA(HospAdmin) Iowa, AHA
Alfred Edward Fulton Rofe, BA LLB Syd., BCom N.S.W.,
AASA(Senior), ACIS
Graham George Sullivan, BCom Auck., MBA N.S.W., ACA,
AASA(Senior)

Paul Anthony James Truda, BEc Syd., MCom N.S.W., ACA

#### Senior Lecturers

Ronald Gordon Dryen, BA *N.S.W.*, FASA Victor Andrew Fatseas, MCom *N.S.W.*, AASA(Senior) Michael John Lawrence, BSc BE *Syd.*, MS PhD *Calif.* John Henry McClelland, BSc MAgrSc *Melb.* 

#### Lecturers

Graham William Bradley, BEc Syd., MCom N.S.W. Lawrence Eugene Case, BSc III., MBA Penn. Basil Dale, BA N.E., MCom N.S.W., AASA(Senior), ACIS David Ross Jeffery, BCom QId., AAUQ, AASA(Senior) Eric Andreas Kulakauskas, BEc Tas. David Lewis, BE QId., MBA N.S.W. John Stanley Macmullen, BCom N.S.W. Dominic Hoeg Staun, BA(Acc) Canberra CAE, MCom N.S.W. Kenneth Thomas Trotman, MCom N.S.W., AASA(Senior) Terrence Robert Vagg, BCom N.S.W. John Frederick Williams, MCom N.S.W., AASA(Prov.)

#### **First Year Studies Unit**

#### Associate Professor

Gordon Howitt, BEc Syd., MCom N.S.W., ASTC, AASA(Senior), ACIS

Senior Tutors Dennis James Haskell, BCom N.S.W., AASA(Prov.) Peter Schelluch, BCom N.S.W., AASA

#### Tutors

Jeffrey Colin Bain, BEc Tas., AASA(Prov.) Nikhil Ranjan Das, MCom Ra/sh., DipNIAPE Christine Hawkins, BCom N.S.W. Lyndon Harry Leslie Lyons, BCom N.S.W. Walter Penninger, BCom N.S.W. William Linton Raper, BCom N.S.W., AASA(Prov.) Dominic Hoeg Staun, BA(Acc) Canberra CAE, MCom N.S.W.

#### **Department of Legal Studies and Taxation**

#### Senior Lecturers

Albert William Lacey, AM, LLB Syd., PhD Lond., MBSC Robert Bryan Vermeesch, LLM Syd.

#### Lecturers

Bradford Caffrey, BA Johns H., LLB La Salle, DipEd W.Aust., LLM Syd. Hilton Leigh Ffrench, LLM Syd., BA N.E. Timothy James McCarthy, BCom N.S.W., LLM Syd., AASA, ACIS Andrew Liewellyn Terry, LLM Cant.

#### Tutors

Alexander Henry Robert Hillston, BJur N.S.W. Geoffrey John Lehmann, BA LLB Syd.

## **Department of Behavioural Science**

Professor of Business Administration and Head of Department of Behavioural Science Dexter Colboyd Dunphy, BA MEd DipEd Syd., PhD Harv.

Associate Professor

Gordon William Ford, BA DipEd Syd., MA(Econ) Calif.

Senior Lecturers

Alan Matthew Bordow, BS *Wis.*, MA PhD *Col. State* Anthony Francis Donovan, MA PhD *N.U.I.* Barry Russell Maley, BA *Syd.*, MA *A.N.U.* 

## **School of Economics**

Professor of Economic History, Head of School of Economics and of Department of Economic History William Gordon Rimmer, MA PhD Camb., AM Harv., FRHistS

Professor of Statistics and Head of Department of Econometrics Nanak Chand Kakwani, MA PhD Delhi

Research Professor of Economics Murray Chilvers Kemp, BCom MA Melb., PhD Johns H.

Professor of Economics Maurice McManus, BCom PhD Birm.

Professor of Economics and Head of Department of Economics John Warwick Nevile, BA W.Aust., MA PhD Calif., FASSA

Professor of Economics and Head of Department of Industrial Relations John Rodney Niland, MCom N.S.W., PhD ///.

Professor of Economics

Vacant

Administrative Assistant Stephen Lee Marks, BSc Syd.

#### **Department of Econometrics**

#### Senior Lecturers

Eric Richard Sowey, BEc Syd., BSc PhD N.S.W., MSc Lond. John Alton Zerby, MA Penn. State and Vanderbilt

#### Lecturers

Ronald Anthony Bewley, BA Sheff. Warren Richard Hughes, MCom Auck., DBA Indiana John Lewis Knight, MCom N.S.W. Daniel-Marie Paul Yvon Leonard, IngAgr (I.N.A. Paris), MSc PhD III. Anthony David Owen, BA Leic., MA Kent Nripesh Podder, MA Calc., PhD N.S.W.

#### Tutors

Denzil Gwydir Fiebig, BCom N.S.W. Shimon Hemli, BA *Bar-IIan*, MCom N.S.W. Peter Bruce Morgan, MCom *Cant*.

### **Department of Economic History**

Associate Professor

Srinivasa Ambirajan, MA PhD And. and Manc.

#### Lecturers

David Leonard Clark, BEc PhD Syd. Barrie Drummond Dyster, MA Syd., PhD Tor. Ian Clifford Inkster, BA *E. Anglia* David Meredith, BA PhD *Exe.* Stephen James Nicholas, BA Syr., MA *Iowa*. Peter Hugh Nolan, BA *Cant.*, MSc *Lond*. John Albert Perkins, BSc(Econ) *Hull* David Hewitt Pope, MEc *Monash.*, MA *Ohio State* Peter Roger Shergold, BA *Hull*, MA *Ill.*, PhD *Lond*.

#### Tutors

Gary Kenneth Chittick, BEc N.E., BA Macq. Kevin Leonard Morgan, BA Belf. John Vernon Williams, MA Tas.

#### **Department of Economics**

#### Associate Professors

Richard Manning, BA Otago, MA Cant., PhD LaT. Gregory Duncan McColl, MSc(Econ) PhD Lond. Kenneth Deakin Rivett, MA PhD Melb. Neil Runcie, BEc Syd., PhD Lond. Douglas John Stalley, MEc Adel., MBA Col., AUA

Senior Lecturers Peter Calvo, MSc(Econ) PhD Lond. Norman James Dudley, BAgEc PhD N.E.

### Calendar

Gregory Michael Folie, BE Melb., MSc(Econ) Lond., PhD S'ton, DIC, MIEAust Robert Victor Horn, MEc Syd., DrRerPol Cologne

#### Lecturers

David Ross Chapman, BA *N.E.* MA(Econ) *Essex* Robert Maxwell Conlon, MCom *N.S.W.* Geoffrey Francis Fishburn, BA PhD *N.S.W.* Peter John Forsyth, MEc *Syd.* Paul John Forward, MCom DipEd *N.S.W.*, MSc(Econ) *Lond.* David Ronald Gallagher, MAgrEc *N.E.* James Robert Hanratty, BEc *Syd.*, MSc(Econ) *Lond.* Charles William Junor, MCom *N.S.W.* Fu-Chi-Liu, MA *Taiwan*, PhD *Roch.* Thomas Gregory Parry, MEc *Syd.*, PhD *Lond.* Robin Elizabeth Pope, BA *N.E.*, MEc *Monash*, MA *Ohio State* Behara Bhaskara Rao, BA *And.*, MA *Ban.*, BSc(Econ) *Lond.* Margaret Joan Vipond, BA *Durh.* Geoffrey Herbert Waugh, BSc *Syd.*, MCom *N.S.W.* 

Principal Tutor Trevor Robert Stegman, BCom N.S.W.

#### Senior Tutors

Thomas Victor Edwards, BEc Syd. Rita Hardie, BEc Syd., MCom N.S.W. Andrew Chi Kuen Lo, BA Melb., MA N.S.W.

#### Tutors

Garry Alan Ferris, BEc Syd. Kevin Vincent Forde, BCom N.S.W. Michael Joseph Lauer, BCom N.S.W. John Richard Nicol, BA MCom N.S.W. Leonard John Perry, DipEd MCom N.S.W.

#### **Teaching Fellows**

Helen Beatrice Bendall, BA N.S.W. Robert John McMillan, MCom Cant.

#### **Centre for Applied Economic Research**

Director Professor J. W. Nevile

### **Research Associates**

R. M. Conlon Dr G. M. Folie Professor N. C. Kakwani Associate Professor G. D. McColl Dr T. G. Parry Robin E. Pope B. B. Rao J. A. Zerby

Research Officer Alison Joy Harvie, BA A.N.U.

#### **Department of Industrial Relations**

Associate Professor Frank Seymour Stevens, BEc Syd., MA Stan., PhD N.S.W.

Senior Lecturers Sahab Dayal, MA Alld., MSc Lond., PhD Corn. William Ernest Hotchkiss, MEc Syd., MCIT

Lecturers Braham Dabscheck, MEc Monash Stephen Jerome Frenkel, BA Camb., MA Warw.

Tutor Margaret Leonard, MA III.

### **School of Marketing**

Professor of Marketing and Head of School Roger Alexander Layton, MEc Syd.

Senior Lecturers George Holmes, DipM Liv., MA Lanc. Raymond Christopher O'Leary, BE Syd., MA Lanc.

#### Lecturers

Stanley Glaser, BA Syd. Kenneth LeLievre, MA Syd. Ian Frederick Wilkinson, BSc S'ton., MSc Warw., PhD N.S.W. John Tohr Yamaguchi, BS Col., PhD A.N.U. Joan Carol Zielinski, AB Emmanuel Coll., Boston, MA Calif.

#### Tutors

David Nelson Darby, BSc Nott. Michael Ian Halliday, BAgEc N.E., MSc N'cle.(U.K.) Neil Andrew Richardson, MCom N.S.W. Frank Leopold Winter, BCA Well.

## **The Graduate School of Business**

Acting Head of School Professor R. A. Layton

Professor of Civil Engineering and Head of Department of Engineering Construction and Management

Ronald William Woodhead, BE Syd., ME N.S.W., FIEAust, FAIB, MASCE, MAIC, MPMI, MACI

Professor of Civil Engineering and Head of Department of Water Engineering

Harold Rupert Vallentine, BE Syd., MS lowa, ASTC, FIEAust, MASCE

Visiting Professor of Civil Engineering James Macquarie Antill, BE Syd., ME N.S.W., FIEAust, FIArb(Lond), FIArb(Aust), AMAusIMM

Professor of Engineering (on secondment) Thomas Kevin Hogan, BE W.Aust., FIEAust., MAusIMM

Honorary Associates Lance Aubrey Endersbee, BCE ME Melb., FIEAust, FASCE, MAUSIMM Desmond Ford Glynn, BCE Melb., MIEAust, MASCE Alexander Wargon, MSc Harv., CE, FIEAust, FASCE, MNZIE

Executive Assistant to Head of School Peter Stephen Balint, DiplEng Bud., ME N.S.W., MIEAust

Administrative Officer Ross Leonard Woodham, BA N.S.W.

#### **Department of Civil Engineering Materials**

Includes Soil Mechanics, Rock Mechanics, Concrete Technology, Plastics and Timber, Continuum and Statistical/Mechanics.

#### Associate Professors

Owen Graeme Ingles, BA MSC Tas., CEng, FRIC, MInstF Somasundaram Valliappan, BE Annam, MS Northeastern, PhD Wales, MASCE Geoffrey Baldwin Welch, BE Syd., ME N.S.W., CEng, MICE, FIEAust

#### Senior Lecturers

William Henry Cogill, MS Cape T. and Camb., PhD N.S.W., FIEAust, MICE David John Cook, BE W.Aust., MSc PhD Calg., MIEAust, AMASCE, APIA Esca Morrice Kitchen, BE Syd., MIEAust Bruce John Francis Patten, BE Syd., PhD N.S.W., DIC

\*Retired from the University 29 December 1976 and succeeded as Head of School by Professor I. K. Lee.

## **Faculty of Engineering**

Comprises Schools of Civil Engineering, Electrical Engineering, Highway Engineering, Mechanical and Industrial Engineering, Nuclear Engineering, Surveying, and Transportation and Traffic.

Dean

Professor P. T. Fink

Chairman Professor T. K. Hogan

Administrative Officer

Patricia Rathbun Kinard, BA Maryland

## **School of Civil Engineering**

Professor of Civil Engineering, Head of School and of Department of Structural Engineering

\*Arthur Stanley Hall, BSc(Eng) Lond., DIC, FIEAust, MACI

Professor of Civil Engineering and Head of Department of Civil Engineering Materials

Ian Kenneth Lee, BCE MEngSc PhD Melb., FIEAust, MASCE

### Calendar

#### Lecturers

Stephen John Hain, BE Syd. Arthur William Manton-Hall, BE MEngSc N.S.W., MIEAust Harry Taylor, BSc(Eng) *Birm.*, DipNA&AC Syd. John Maurice Wheatley, MA PhD Camb., FIM, FAusWI, MAusIMM, MWeld(Lond), AFAIM Stephen Ross Yeomans, BSc PhD N.S.W., GradIMAust

#### **Teaching Fellows**

Pravit Boonlualohr, BE Syd., MEngSc N.S.W. Keiichi Matsuzaki, ME Tokyo

#### **Professional Officers**

David Edwin Hattersley, MSc N.S.W., ASTC Hinrich Nicolaus Lunsmann, BE N.S.W., ASTC, GradlEAust Ghodratollah Tamaddoni, BEngAg *Tehran*, DAgSc *Gembloux* 

## Department of Engineering Construction and Management

Includes Systems Engineering, Engineering Economy, Project Planning and Management.

#### Associate Professor Alan Frank Stewart Nettleton, BSc BE Syd., ME N.S.W., DIC

Senior Lecturers

Arthur Gordon Douglas, ME N.S.W., PhD Mich.State, MIEAust Lawrence Vincent O'Neill, BE Syd., MIEAust

#### Lecturers

George Rush Easton, BSc BE Syd., MEngSc Birm. Victor John Summersby, BE MEngSc N.S.W., ASTC, MIEAust Stephen Joseph Symonds, BSc BE Syd., MEngSc N.S.W., MIEAust

#### Tutor

George Charles Birdsall, BE N.S.W., GradlEAust

#### **Professional Officer**

Frederick Adrian John Stein, ED, BE N.S.W., GradlEAust, AMASCE

#### **Department of Structural Engineering**

Includes Structures, Stress Analysis and Solid Mechanics.

#### Associate Professors

Horace Joseph Brettle, BE Syd., PhD N.S.W., DIC, ASTC, FIEAust

Robert Alexander Frisch-Fay, DiplEng Bud., ME N.S.W., MIEAust

Algis Kabaila, MEngSc PhD N.S.W., FRMTC, MIEAust, MASCE Rupert Whitfield Traill-Nash, BE W.Aust., PhD Brist., CEng, MIEAust, MRAeC

Robert Falcon Warner, ME N.S.W., PhD Lehigh, MIEAust

#### Senior Lecturers

Peter Stephen Balint, DiplEng Bud., ME N.S.W., MIEAust Lloyd Sydney Edwards, BCE Melb., BEc Syd., MSc Lond., DIC, ARMTC, MIEAust

Donald John Fraser, MEngSc PhD N.S.W., ASTC

Kenneth Alan Faulkes, ME N.S.W., MS III., PhD N.S.W., MIEAust

Jack Lachlan Jenkins, BE Syd., ME N.S.W., DIC, ASTC, MIEAust

Victor Andrada Pulmano, BSCE Philippines, MEng A.I.T. PhD Northwestern

B. Vijaya Rangan, BE Madr., PhD I.I.S.B'lore., MASCE, MIEAust

lan James Somervaille, BE PhD N.S.W., ASTC

#### Lecturers

Alex Cuthbert Heaney, BE MEngSc Melb., PhD Wat., MIEAust, MASCE, AMICE Peter Walder Kneen, BE Melb., PhD Wat., MIEAust Raymond Eric Lawther, BE PhD N.S.W.

#### **Teaching Fellows**

Robert Frank Care, BE N.S.W., AMASCE Robert John Edwardes, BScEng N.S.W. Raymond Ian Gilbert, BE N.S.W. Radhey Krishna Gupta, ME *Roor.*, LM-ISET, MIEAust Russell Forester Staley, BSc *Leeds* 

Professional Officer Kim Small, BSc Syd.

#### **Department of Water Engineering**

Includes Hydraulics, Hydrology, Public Health Engineering, Water Resources Engineering, and the Water Research Laboratory.

#### Associate Professors

Douglas Neil Foster, BE Syd., MIEAust Bernard William Gould, BE Tas., ME N.S.W., MIEAust David Herbert Pilgrim, BE PhD N.S.W., MIEAust Keith Kingsford Watson, BE Syd., ME PhD DSc N.S.W., MIEAust

#### Senior Lecturers

Arthur John Askew, BSc Birm., MSc(engin) Qu., PhD N.S.W., MASCE, MIEAust Ian Cordery, ME PhD N.S.W., MIEAust Colin Raymond Dudgeon, ME N.S.W., MIEAust, MASCE Trevor Regis Fietz, ME N.S.W., MIEAust David Trewhella Howell, BE Syd., ME N.S.W., MIEAust, MAIAS John Robert Learmonth, BE Syd., ME N.S.W.

#### Lecturers

David Barnes, BSc PhD Birm., MIWSE, AMICE Peter John Bliss, BE N.S.W., MSc Lond., DIC, ASTC, MIEAust Brian Selby Jenkins, BE PhD N.S.W., ASTC, MIEAust, LGE David Lyon Wilkinson, BE Syd., PhD N.S.W., MIEAust

#### Tutors

Peter Howard Bloomfield, BE N.S.W. Joseph Kitugar Seeto, BE MEngSc N.S.W., GradIEAust

#### **Professional Officers**

David George Doran, BE DipCompSc Qld., MEngSc N.S.W. Jonathan Keith Tuck, BE N.S.W.

## **School of Electrical Engineering**

Professor of Computer Science and Head of School Murray William Allen, BE Adel., PhD Syd., CEng, FIREE, MIEE, MIEEE

Professor of Electrical Engineering—Communications Antoni Emil Karbowiak, DSc(Eng) Lond., CEng, FIEAust, FTS, FIREE, MIEE Professor of Electrical Engineering---Systems and Control Neville Waller Rees, BSc PhD Wales, FIEAust

Tyree Professor of Electrical Engineering—Electric Power Engineering Frederic John Evans, BSc BE Syd., CEng, FIEE, FIEAust

Visiting Professor—Solid State Electronics Louis Walter Davies, BSc Syd., DPhil Oxon., SMIEEE, FInstP, FAIP, FIREE, FTS, FAA

Professor of Electrical Engineering-Electronics Vacant

Professor of Electrical Engineering Rex Eugene Vowels, ME Adel., SMIEEE, CEng, FIEAust, MIEE

Executive Assistant to Head of School Colin Arthur Stapleton, BSc BE Syd., CEng, MIEAust, MIEE, MIEEE

Senior Administrative Officer Halsey George Phillips

Administrative Assistant Mollie Lenthall, BA Syd.

Senior Tutor Geoffrey Nicholas Horton Westley, BEng Liv.

#### Tutors

Branko George Celler, BSc BE N.S.W. Brian Louis Cohen, BSc N.S.W. Dorothy Megasari Lesmana, BSc BE N.S.W. Phillip George McCrea, BE N.S.W.

#### **Teaching Fellows**

Peter Garde, BE MEngSc *Monash* Graham Reginald Hellestrand, BSc *N.S.W.* Wudhi Nippita, BSc BE *Syd.* Sui Cheong Albert Poon, BE *N'cle.(N.S.W.)*, HDip *H.K.Poly* 

Professional Officer Jeffrey Stanley Skebe, BS Case W.R.

#### Department of Communications

#### Associate Professor

Warwick Harvey Holmes, BSc BE MEngSc Syd., PhD Camb., MIEEE, MIREE

#### Senior Lecturers

Edward Henry Fooks, BSc PhD Lond., CEng, MIEE, MIEEE Thomas Leslie Hooper, BSc Syd., MSc N.S.W., CEng, MIEE, MIEEE, MIREE Geoffrey John Parker, BSc BE Syd., ME N.S.W., MIEAust, MIREE Christopher John Elliot Phillips, BSc BE PhD Syd., AMIREE

Christopher John Elliot Phillips, BSc BE PhD Syd., AMIREE The Bao Vu, BE PhD Adel.

Ramutis Anthony Zakarevicius, BSc BE MEngSc PhD Syd., MIEAust, MIEEE, MIREE

#### Lecturers

Peter Thomas Bason, ME N.S.W., MIEEE Pak Lim Chu, ME PhD N.S.W., MIREE William John Dewar, MSc(Eng) Qu., PhD N.S.W. Harold Leslie Humphries, BSc BE BEc Syd., MIEAust, MIREE Robert Radzyner, BE Melb., MEngSc PhD N.S.W., MIEEE

#### **Professional Officers**

Douglas Hamilton Irving, BE *N.S.W.* Kirill Poronnik, BE *N.S.W.*, ASTC, MIREE Trevor Wayne Whitbread, BE *N.S.W.* 

#### **Department of Electric Power Engineering**

#### Associate Professors

Garth Claud Dewsnap, MEE *Melb.*, CEng, FIEE, MIEAust Gordon William Donaldson, BE *Qld.*, BSc MA *Oxon.*, CEng, MIEE, MIEAust, SMIEEE

Gregory Joseph Johnson, MSc Syd., SMIEEE, CEng, MIEE, AInstP, AAIP

lan Francis Morrison, BSc BE PhD Syd., CEng, MIEAust, MIEEE, MIEE

#### Senior Lecturers

Harry Harrison, BSc BE Syd., ME N.S.W., MIEAust Ronald Edward James, BSc(Eng) PhD Lond., CEng., MIEE, MIMechE

#### Lecturers

Trevor Robert Blackburn, BSc Adel., PhD Flin., GAIP David Bruce Goudie, BSc BE PhD Syd., MIEEE, AMIEE Hugh Ronald Outhred, BSc BE PhD Syd., AMIEE

#### **Professional Officers**

Joseph Rhine Kinard, BA Fla.S.U., MS Mass., MIEEE, MOSA Edward Douglas Spooner, ME N.S.W.

#### **Department of Computer Science**

#### Senior Lecturers

Alan Dunworth, BSc PhD Manc., SMIEE, FIREE John Lions, BSc Syd., PhD Camb. Graham Barry McMahon, BSc Syd., PhD N.S.W. Peter Clive Maxwell, MSc Auck., PhD A.N.U., MIEEE

#### Lecturers

Paul William Baker, BE PhD N.S.W. Ian James Hayes, BSc N.S.W. Leslie Charles Hill, BE N.S.W., MIEAust Kenneth Arthur Robinson, BSc BE Syd.

#### **Professional Officers**

Serge Poplavsky, Dipling *Bratislava*, ME *N.S.W.* Keith William Titmuss, BSc(Tech) *N.S.W.* 

#### **Department of Solid-State Electronics**

#### Associate Professor

Richard Meredyth Huey, BSc BE Syd., SMIEEE, FIEAust, FIREE

#### Senior Lecturers

Henry Stanley Blanks, BSc ME Syd., PhD N.S.W., CEng, MIREE, MIQA, SMIEEE Richard Vaughan, BSc BE PhD Syd.

#### Lecturers

Martin Andrew Green, BE MEngSc Qld., PhD McM. Peter Howard Ladbrooke, BTech Lough., PhD Camb.

#### Department of Systems and Control

#### Associate Professors

John Barry Hiller, BE PhD N.S.W., FIREE, MIEEE Colin Arthur Stapleton, BSc BE Syd., CEng, MIEE, MIEEE, MIEAust Keith Eugene Tait, BE(Hons) BSc N.Z., PhD N.S.W., MIEAust

#### Senior Lecturers

Peter Thomas Bason, ME N.S.W., MIEEE Reginald Frederick Brown, BEng Liv., PhD N.S.W., CEng, MIEE David Harold Mee, BSc BE Syd., PhD Lond., DIC, MIREE

#### Lecturers

Kevin Charles Daly, BSc BE PhD N.S.W. Felix Lewin, BSc BE Syd. Oleg Pawloff. DiplIng Berl., MIEAust, MIREE Robert Luxmore Payne, BSc BE Adel., MSc PhD Lond., MIEE Darrell Williamson, BSc ME N'cle.(N.S.W.), PhD Harv.

#### Professional Officers

Alec Dunn, BA Essex Kevin John Flynn, BE MEngSc N.S.W., ASTC Johan Herman Sieuwerts, BE N.S.W., ASTC

## **School of Highway Engineering**

Professor of Highway Engineering and Head of School Dennis Frank Orchard, BSc PhD Lond., DIC, ACGI, FIEAust, FCIT, MICE

#### Senior Lecturers

Robert Alexander Jones, BE W.Aust., ME Auck., MSc Lond., DIC, MSINZ, MIEAust

Theo ten Brummelaar, BE MEngSc N.S.W., MIEAust Brian Shackel, BE Sheff., MEngSc PhD N.S.W., MIEAust, MASCE

William Otho Yandell, ME PhD N.S.W., MIEAust

#### Professional Officers

Clement Edward Quinlan, GradDip N.S.W., ASTC, MIEAust Andrzej Waldemar Raczkowski, MgrInz T.U. Warsaw

# School of Mechanical and Industrial Engineering

#### Nuffield Professor of Mechanical Engineering, Head of School and of Department of Fluid Mechanics/Thermodynamics Raymond Alfred Arthur Bryant, ME N.S.W., ASTC, CEng, FIMechE, FIEAust, MRAeS

Professor of Mechanical Engineering Peter Thomas Fink, BE Syd., CEng, FIEAust, FIMechE, FRAeS, FTS, MAIAA, MRINA

Sir James Kirby Professor of Production Engineering and . Head of Department of Industrial Engineering Peter Louis Brennan Oxley, BSc PhD Leeds, CEng, FIProdE, FIEAust, MIMechE

Professor of Operations Research George Bennett, BA Syd., PhD N.S.W., ASTC, CEng, FIProdE

Professor of Mechanical Engineering and Head of Department of Applied Mechanics

Noel Levin Svensson, MMechE PhD Melb., CEng, FIEAust, MIMechE, AMIM, MSESA

## Professor of Mechanical Engineering and Head of Department of Agricultural Engineering

Albert Henry Willis, DSc(Eng) Lond., CEng, FIMechE, FIEAust, MemASAE, WhSc

#### Executive Assistant to Head of School

John Young Harrison, BE Syd., PhD N.S.W., MIEAust

Senior Administrative Officer George Dusan, BEc Syd.

#### Honorary Associate

Cyril Arthur Gladman, BSc(Eng) Lond., ACGI, CEng, FIProdE, MIMechE, MIED

#### **Teaching Fellows**

Hok Fung Cheung, BE *N.S.W.* William Ernest Fisher, BSc BE *Syd.* Vijay Kumar Goel, BE *Punj'i.*, ME *Roor.* See Seng Leong, BE *N.S.W.* Robert Ching Yin Lim, BE *N.S.W.*, GradIEAust Do Le Minh, BE *N.S.W.* Moshe Daniel Rabinowitz, BSc *Technion-Israel I.T., Haifa* Hadi Winarto, BE *Syd.*, MEngSc *N.S.W.*, GradIEAust

#### Calendar

Professional Officers Han Bao, BE MEngSc PhD N.S.W. Eric Arthur Carter, BE MEngSc N.S.W., ASTC Walter Dollar, ASTC Richard Butler Frost, BE N.S.W., GradlEAust Joseph Yuk Ming Fung, BE MEngSc Syd., GradlEAust Khoi Hoang, BE Saigon Brian Robert Edgar Lederer, BSc N.S.W., PhD Syd. Barrie Clifford Motson, BE N.S.W., ASTC, MIEAust Philip Henry Sivyer, BE N.S.W., MIEAust Colin Barrington Smith, BE MEngSc N.S.W., ASTC, MAIRAH, GradlEAust

#### **Department of Agricultural Engineering**

Senior Lecturer

Harold Glenn Bowditch, ME N.S.W., ASTC, MIEAust, MIAgrE, MemASAE

#### **Department of Applied Mechanics**

#### **Associate Professors**

John Young Harrison, BE Syd., PhD N.S.W., MIEAust Robert George Robertson, MA Oxon., ME N.S.W., CEng, MRAeS

#### Senior Lecturers

Jacob Alexander Bruce Cartmel, PhD N.S.W., MSc Cran.I.T., CEng, FIMechE, FIEAust, MASME, MIEEE Alexander Eric Churches, BE PhD N.S.W., ASTC Edward Colvyn Hind, ME N.S.W., ASTC, MIEAust

#### Lecturers

John Edward Baker, MSc Syd., BE MEngSc PhD N.S.W. Kerry Patrick Byrne, BE MEngSc QId., BSc Melb., PhD S'ton Raymond Albert Vincent Byron, BE Syd., CEng, MRAeS, MAIAA George Crawford, BE BSc N.S.W., ASTC, CEng, FIEAust, ARACI Ronald Arthur Dennis, MSc Nott., CEng, MIMechE Eric Joseph Hahn, BE BSc PhD N.S.W., MASME Knut Kjorrefjord, BSc Durh., CEng Farrokh Mistree, BTech I.I.T. Kharagpur, MS PhD Calif. Donald Jabez Stephen Mudge, BSc Lond., CEng, MIMechE, MIEAust, WhSc Hugh Lithgow Stark, BSc PhD Strath., CEng, MIMechE, MIEAust Jae Lin Woo, BSc Seoul, SM M.I.T., PhD N.S.W.

#### Tutors

David Malcolm Jenkins, BE *Syd.* Lyle John McLean, BScEng *N.S.W.*, GradIEAust Hoong Gheow Wong, BE *N.S.W.* 

#### Department of Fluid Mechanics and Thermodynamics

Includes Aeronautical Engineering and Naval Architecture.

#### Associate Professors

Richard Douglas Archer, BSc *Melb.*, BE Syd., MS PhD *Minn.*, FBIS, MIEAust, MAIAA, MRAeS Graham de Vahl Davis, BE *Syd.*, PhD *Camb.*, CEng, FIMechE, FIEAust, MASME

Senior Lecturers

Reginald Edward Corbett, DIC, ASTC, CEng, MIMechE, MIEAust Michael Richard Davis, BSc(Eng) PhD S'ton, CEng, MRAeS Lawrence Julian Doctors, BE MEngSc Syd., PhD Mich., AMCASI, AMSNAME John Newton Hool, BE Syd., DPhil Oxon., ASTC, CEng, FIMechE, MIEAust Owen Francis Hughes, SB SM(NavArch) M.I.T., PhD N.S.W., MIEAust, MRINA, MSNAME Robert Taggart Black McKenzie, MS ME Purdue, CEng, ARCST(Glas), FIMechE Brian Edward Milton, BE PhD N.S.W., MSc Birm., CEng, MIEAust, MRAeS Charles Matthew Sapsford, BSc(Eng) Lond., ME N.S.W., CEng, FIMechE, MIEAust

#### Lecturers

Graham Lindsay Morrison, BE PhD Meto. John Arthur Reizes, ME PhD N.S.W., MIEAust

#### **Department of Industrial Engineering**

Includes Operations Research and Production Engineering.

#### Associate Professors

Michael Geoffrey Stevenson, BSc(Tech) PhD N.S.W., ASTC, CEng, MIEAust, MIProdE Jack Taylor, BSc Nott., CEng, FIMechE

Senior Lecturers John Frederick Campbell Close, BSc BE Syd., ME N.S.W., MIEE, SMAIIE, MIEAust Bruce Albert Murtagh, ME Camb., PhD Lond., DIC, CEng, MIChemE

#### Lecturers

Leonard Edward Farmer, BE MEngSc PhD N.S.W., MIEAust Daniel Goodridge, DiplingChim L'Aurore, Shanghai, DiplindEng N.S.W.

Thomas Richard Jefferson, MSc Tor., PhD Northwestern Grier Cheng Lin, DipMechEng P.T.I.T., Taiwan, PhD N.S.W., MIEAust

Raymond Norman Roth, BE PhD N.S.W., CEng, MIEAust Carlton Henry Scott, BSc Qld., PhD N.S.W.

Graham Smith, BE MEngSc PhD N.S.W., ASTC, MIEAust

Associate Professor of Surveying and Head of Department of Surveying George Gordon Bennett, MSurv Melb., PhD N.S.W., LS(NSW), FISAust

Administrative Assistant Joseph Valentine Fonseka, BA Lond.

Professional Officers Norman John Brinsden, BE N.S.W. Warren William Kent, BSurv N.S.W. Colin Edward Wardrop, BSc N.S.W.

## **School of Nuclear Engineering**

## Professor of Nuclear Engineering and Head of School James Joseph Thompson, BE PhD Syd., FIEAust

#### Associate Professors

Paul Robert Barrett, MSc PhD Birm., FAIP, MInstP Zdenek Josef Holy, Dipling Prague, MSc Birm., MEngSc PhD N.S.W., MIEAust

#### Lecturers

Olaf Oscar Carlos Alexander Bils, Dipling Berl., PhD N.S.W. Leslie George Kemeny, BE Syd., MIEAust

Teaching Fellow Peter Thomas Bath, BE MEngSc N.S.W.

Professional Officer Peter Yo Pin Chen, BSc MEngSc ME PhD N.S.W., ASTC

### **School of Surveying**

Professor of Surveying, Head of School and of Department of Geodesy

Peter Vincent Angus-Leppan, BSc(Eng) Rand., PhD DipTP Natal, FISAust, MILS(Natal), MAIC

Professor of Surveying and Head of Department of Photogrammetry

Robert Brewster Forrest, DGeodSci Ohio State, BA Minn.

#### Department of Geodesy

#### Associate Professor

Ronald Sunthereraj Mather, BSc Ceyl., PhD DSc N.S.W., FISAust

Senior Lecturer

Arthur Stolz, BSurv PhD N.S.W., LS(NSW), MISAust

#### Lecturers

Friedrich Karl Brunner, Dipling Dr techn T.H. Vienna, MISAust Arthur Harry William Kearsley, BSurv MSurvSc N.S.W., MAIC, MISAust

#### **Department of Photogrammetry**

Includes Land Studies and Cartography.

#### Senior Lecturers

Bruce Crosby Forster, MSurv Melb., MSc R'dg., MAS P.N.G., LS(Vic) George James Forster Holden, DipPhoto Lond., PhD N.S.W., FRGS, MISAust, MAIC, ARICS John Charles Trinder, BSurv PhD N.S.W., MSc T.H. Dellt, LS(NSW), MISAust

#### Lecturers

Pratap Shivabhai Amin, BSc *T.H. Dellt*, MSc *Lond.*, MISAust, MISK, CLSEA, ARICS Leonard Berlin, BSc(LS) *Cape T.*, BSc *T.H. Dellt*, MISAust Ian Philip Williamson, BSurv MSurvSc *N.S.W.*, LS(NSW), MISAust

#### Senior Tutor

Salvatore Umberto Nasca, DottScGeol Florence, DipTop&Cart (Istituto Geografico Militare), MGAS, AMAIMM

#### **Department of Surveying**

Associate Professor John Stuart Aliman, BSurv PhD N.S.W., MISAust, MAIC

#### Senior Lecturers

Anthony John Robinson, BSurv PhD *N.S.W.*, LS(NSW), MISAust, MAIC Arthur Paul Heinz Werner, Dipling *Bonn*, FISAust

#### Lecturers

Sabapathy Ganeshan, BSc *Ceyl.*, MISAust Klaas Ids Groenhout, BSurv MSurvSc *N.S.W.*, LS(NSW), MISAust, AMAIC Gregory Justin Hoar, BSurv PhD *N.S.W.*, LS(NSW), MISAust Jean Marc Rueger, Dipling *E.T.H. Zurich*, SIA, LS(Switz), MISAust

#### Senior Tutor

Robert Campbell Patterson, BSurv BSc MSurvSc N.S.W.

## **Faculty of Law**

Comprises School of Law.

Dean Professor R. G. Nettheim

Chairman Professor D. E. Harding

Executive Assistant I. A. Cameron

Senior Administrative Officer Peter James Wildblood, PhC Syd., BSc(Econ) MSc Lond.

Administrative Assistant Judith Joan Tonkin, BA Syd.

## Lecturers

Senior Lecturers

John Andrew Black, BA Manc., PhD Brad., AMIT Michael Clarence Dunne, BSc PhD Adel.

#### **Professional Officers**

Roger Roy Hall, BSc A.N.U., MSc N.S.W. Colin John Wingrove, BSc MEngSc N.S.W.

## **School of Law**

Professor of Law and Head of School Robert Garth Nettheim, AM Tufts, LLB Syd.

Visiting Professor of Law Julius Stone, BA DCL Oxon., LLM Hon.LLD Leeds, SJD Harv.

## School of Transportation and Traffic

Professor of Traffic Engineering and Head of School William Ross Blunden, BSc BE Syd., FCIT(Lond), FITE(Wash), MIEAust, MStatSocAust, MAustSocOpRes

# Michael Clarence Dunne, BSc PhD Adel.

Alex James Fisher, BSc Lond., PhD N.S.W. Ross Donald Munro, BSc W.Aust., BA Melb., FSS John Irwin Tindall, BE Qld., BCom ME N.S.W., AMIEAust

#### Professors of Law

Donald Edward Harding, BA LLB Syd., LLM Calif. Ronald Sackville, LLB Melb., LLM Yale Ivan Anthony Shearer, LLM Adel., SJD Northwestern Harold Whitmore, LLB Syd., LLM Yale

#### Associate Professors of Law

Anthony Ronald Blackshield, LLM *Syd.* Robert Alexander Hayes, LLB *Melb.*, LLB *Qld.*, PhD Monash Krishna Mohan Sharma, MA LLM DipLabourLaws *Raj.*, LLM SJD *Harv.* 

#### Senior Lecturers

Mark Isaac Aronson, BJuris LLB Monash, DPhil Oxon. Brian Bromberger, LLB Melb., LLM Penn. Brian Thomas Brooks, BA Well., MA N.Z., LLM Cant. Richard Colin Chisholm, BA LLB Syd., BCL Oxon. Michael David Coper, BA LLB Syd. David Henry Geddes, MA LLM Syd., PhD N.S.W. Patricia Hyndman, LLM Lond. Brian Aubrey Kelsey, LLB Birm. and Tor. Jane Rue Levine, AB Duke, JD Chic. Nerman Stephen Reaburn, LLB Melb. Stanley David Ross, BA C.U.N.Y., MA S.F. State, JD Calif. George Graham Winterton, LLM W.Aust.

#### Lecturers

Salahuddin Ahmed, BA LLB Dacca, LLM Lond. Mark Charles Armstrong, BA LLB Syd., LLM N.S.W. Susan Armstrong, BA LLB Syd. John Basten, LLB Adel., BCL Oxon. Michael Leslie Blakeney, BA LLB Syd. David Bentley Brown, LLB Auck., DipCrim Camb. Terence Lionel Buddin, BA LLB Syd., BCL Oxon., LLM III. Philip Newell Burgess, LLM Well, Geoffrey Caine, BA LLB Syd., LLM Mich. Ian Malcolm Cameron, LLM Cant., LRSM LTCL Lond. Julian Henry Plunkett Disney, LLB Adel. Richard Arthur Gelski, BA LLB Syd., LLM Lond. Denis John Harley, BA LLM Syd., LLB Camb. Richard Curtis Kenzie, LLM Melb. and Harv. John Dennison McMillan, BA LLB A.N.U. Dirk John Meure, LLB Tas., LLM Sheff. Mary Jane Mossman, BA McG., LLB Qu., LLM Lond. Alan Hermon Edmond Oakey, BA Kingston Polytech, LLB DipCLS Camb. Charles Elmer Potter Jnr., BS FS Georgetown, JD Valparaiso Paul Murray Redmond, BA LLB Syd. Christopher John Rossiter, BA LLB Syd. Malcolm Rothwell, LLB Lond. Tuan Razeen Sappideen, LLB Ceyl., LLM Syd., LLM Penn. Michael Gerard Sexton, LLB Melb., LLM Va. Shane David Simpson, LLB MJur Auck. Margaret Therese Stone, BA Syd., LLB A.N.U. Michael John Tilbury, LLB Lond. Gregory Alexander van Koughnett, BSc LLB Qu.

Simon David Wynn, BA LLB *Melb.*, LLM *Lond.* George Zdenkowski, BA LLB *Syd.* 

#### Tutors

lan Gordon Harrison, BA LLB Syd. Kerry Ann Hartman, LLB Syd. Charles Christian Waterstreet, BA LLB Syd.

#### Senior Research Assistants

Stephen Maurice James, LLB Tas. Artura Efren Garcia, LLB Madrid and Manila Zena Sachs, LLB Syd. Robin Sorenson, LLB Syd.

#### **Research Assistants**

Alexis Lian Yin Goh, LLB Sing. Anne-Marie McGuigan, BA LLB Qld. Richard Leo Raftos, BCom LLB N.S.W. Susan Stanton, LLB Syd.

## **School of Anatomy**

Professor of Anatomy and Head of School Frederick William Dickes Rost, BSc(Med) MB BS Syd., PhD DCP Lond., DipRMS

Associate Professors Brian Robert O'Brien, BSc PhD Syd. Charles Roger Rolleston Watson, BSc(Med) MD BS Syd.

## **Faculty of Medicine**

Comprises Schools of Anatomy, Community Medicine, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry, and Surgery.

Dean Professor R. J. Walsh

Chairman Professor G. F. Murnaghan

Executive Secretary Beth McIntyre, BA MHA N.S.W.

Administrative Officer Desmond Kevin O'Rourke

Administrative Assistant Elizabeth Alison Smith, BA Macq.

#### Senior Lecturers

Darrel Ananda Fernando, BVSc Ceyl., PhD Lond. Saw Kin Loo, MB BS Malaya, PhD Sing. Murray Stanley Smith, BSc PhD Cant. Jonathan Stone, BSc(Med) PhD Syd. Istvan Joseph Törk, MD Bud.

#### Lecturers

Ewa Krystyna Bystrzycka, MD Lodz. Brian Warwick Freeman, BSc Syd. Peter Brennan Paisley, BSc Belf., LRCPEd&Glas, LRCSEd&Glas Raiph Earl Molnar, BA PhD Calif., MA Texas

Senior Tutors Jean Joyce Carter, MSc Syd., PhD N.S.W. Prem Gemmell, PhD Punj.

#### Tutors

Karen Ann Ginn, BSc N.S.W. Shirley Gladys Maclean, BSc DipEd Syd. Desmond Daines Shimeld, BSc N.S.W. Robert Tin Kiat Tan, BSc Monash, MB BS N.S.W. Shanmuga Vadivu Vijayakumar, MSc Madr. Catherine Willis, BSc N.S.W.

Teaching Fellow Gregory Stephen Kesby, BSc N.S.W.

Professional Officer Frank Baldwin, MIBiol, PhD N.S.W., FAIST

## **School of Community Medicine**

Professor of Community Medicine and Head of School Ian William Webster, MD BS Melb., FRACP

#### **Professor of Human Genetics**

Robert John Walsh, AO, OBE, MB BS Syd., FRACP, FAA, FRCPA

#### Senior Lecturers

\*George Garrett Burniston, CMG, OBE, MB BS Syd., DPRM, FACMA Lawrence Yook Chee Lai, BSc PhD W.Aust. Edward Maxwell Nicholls, MD BS Adel. Alan Edmund Stark, BA Adel., MA N.S.W.

Lecturer Peter Podmore Manzie, BA MB BS Syd., MRACGP

Tutor Paul Murray McNiel, MA N.Z., LLB Otago

Instructor Felicity Anne Maclean

## **School of Medicine**

Chairman Professor W. R. Pitney

#### **Associate Professors**

Hal John Hester Colebatch, MD BS *Adel.*, FRACP Alan Edward Davis, MD BS *Syd.*, BSc MA *Oxon.*, FRCP, FRACP Alfred Steinbeck, MD BS *Syd.*, PhD *Lond.*, FRCP, FRACP David Emil Leon Wilcken, MD BS *Syd.*, FRCP, FRACP

\*Associate Professors

Clement Russell Boughton, MB BS DTM&H Syd., FRACP, MRCP Bryan Harle Gandevia, MD BS *Melb.*, FRACP Ian Provan Cathcart Murray, MD ChB Glas., FRCPEd, FRACP

#### Senior Lecturers

Terry Dorcen Bolin, MB BS Syd., MD N.S.W., DCH Lond., FRCP, FRACP, MRCPEd John David Gillies, MB BS Syd., MD N.S.W., FRACP Graham Jon Macdonald, BSc(Med) MB BS Syd., MD N.S.W., MRCP

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Clifford Ng, MSc N.S.W. Helen Margaret Theile, BSc Qld., MSc N.S.W.

#### St. George Hospital

Professor of Medicine and Head of Department William Robert Pitney, MD BS *Melb.*, FRACP, FRCPA

Associate Professor Malcolm Edward Schonell, MB BS Qld., FCCP, FRCPEd, MRACP

Senior Lecturer Donald Sidney Pryor, MD BS Syd., FRACP

Lecturer John Frederick Robilliard, MB BS Syd., FRACP, FRCPA

## The Prince Henry and The Prince of Wales Hospitals

Professor of Medicine and Head of Department Ralph Beattie Blacket, MD BS Syd., FRCP, FRACP

Professor of Neurology \*James Waldo Lance, MD BS Syd., FRCP, FRACP

#### St. Vincent's Hospital

Professor of Medicine and Head of Department John Bernard Hickie, MB BS Syd., FRCP, FRACP, FACC

\*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

#### Associate Professors

\*\*Leslie Lazarus, MB BS Syd., FRACP, FAACB Ronald Penny, MD BS Syd., FRACP, FRCPA Michael Francis O'Rourke, MD BS Syd., FRACP

#### Senior Lecturers

\*\*James Crawford Biggs, MB BS Syd., DPhil Oxon., FRACP, FRCPA Donald John Frommer, BSc MD BS Lond., MRCP

#### Lecturers

\*\*James Michael Hayes, MB BS Syd., FRACP Leon Abraham Simons, BSc(Med) MB BS Syd., MRCP

#### **Professional Officer**

Rivka Goren, BSc Bar-Ilan

#### **Department of Diagnostic Radiology**

#### Associate Professor

\*Harold Bryan Williams, MA MD BChir Camb., DMRD Lond., DR(Canada), FRACR, FRSM, MRCP, MRCS, MCCR

#### Lecturer

\*Geoffrey James Harrington, MB BS Syd., MRACR

## **School of Paediatrics**

Professor of Paediatrics and Head of School John Beveridge, MB BS Syd., FRACP

#### **Associate Professors**

\*Aubrey Charles Bowring, MB BS Syd., FRCS, FRCSEd, FRACS Jagdish Mitter Gupta, MB BS Malaya, MD Sing., DCH Lond., FRCPEd, MRACP Darcy William O'Gorman Hughes, MD N.S.W., BS Syd., FRACP Leslie Herbert Stevens, MB ChB BSc N.Z., PhD Lond., FRACP

#### Senior Lecturers

Gabriel Antony, MD Bud., LRCPSEd, LRFPSGlas, DABP \*Graham Chudleigh Fisk, MA BM BCh Oxon., FFARACS

#### Lecturer

John Douglas Mitchell, MB BS Melb., FRACP

## **School of Pathology**

Professor of Pathology and Head of School Donald Lancelot Wilhelm, MD BS Adel., PhD Lond., FRCPA

# School of Obstetrics and Gynaecology

Professor of Obstetrics and Gynaecology and Head of School Harvey McKay Carey, MB BS MSc DGO Syd., FRACS, FRCSEd, FRCOG

#### Senior Lecturers

David Charles Ross Macourt, MB BS Syd., FRCSEd, MRCOG Barry George Wren, MB BS Syd., MD N.S.W., MRCOG

Lecturer Trevor Charles Johnson, MB BS Syd., MRCOG

#### Associate Professors

Athot William John Lykke, MD BS Adel., FRCPA, MRCPath Douglas Duncan Smith, MD ChB Glas., FRCPA, MRCPath

#### Senior Lecturers

‡Alfred Ernest Gatenby, MB BS Syd., FRCPA, MRCPath
Cameron Rolfe Howlett, BVSc PhD Syd.
\*Aubrey Godwin Liddelow, MB BS Melb., FRCPA, MRCPath
\*Vincent Frederick Munro, MB BS DCP Syd., FRCPA
§Robert Andrew Osborn, MD BS BSc Lond., FRCPA, MRCPEd, MRCPath, MAACB

\*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

\*\*Conjoint appointment with St. Vincent's Hospital.

‡Conjoint appointment with St. George Hospital.

SConjoint appointment with Royal Hospital for Women.

Lecturers

Shirley Grace Higgins, MB BS *Syd.* Lalitha Gupta, MB BS *Delhi* Leng Chai Jimmy Yong, BSc(Med) MB BS *N.S.W.* 

Senior Tutor Rakesh Kamal Kumar, MB BS Delhi

#### **Honorary Associates**

Gordon Thomson Archer, MB BS DCP Syd., FME, FRCPA Robert James Bartholomew, BSc Syd., PhD Lond., ASTC, FRACI, FAACB George Michael Watson, MB BS Adel., DPhil Oxon., FRCPA, MRCP, MRACP Gary George Graham, MSc PhD Syd. John Hancock, MB ChB Otago, MRACP

Senior Tutor Michael Alan Perry, MRurSc N.E.

Tutors Denise Anne Edwards, BSc Syd. Barbara Dale Porter, BSc Syd.

Teaching Fellow David Morgans, BSc Syd.

Professional Officer Kenneth Harry Curtis, AIST(Lond)

Honorary Associate Kenneth Martin Taylor, MPharm PhD Otago

## School of Physiology and Pharmacology

Professor of Physiology and Head of School Walter Ernest Glover, MD BCh BAO Belf.

#### Professor†

Peter William Gage, MB ChB N.Z., PhD A.N.U., DSc N.S.W.

#### Professor of Clinical Pharmacology

Denis Newell Wade, BSc(Med) MB BS Syd., DPhil Oxon., FRACP

#### **Associate Professors**

Robert Alastair Beveridge Holland, MD BS Syd., FRACP Douglas Ian McCloskey, BSc(Med) MB BS Syd., DPhil Oxon.

#### Senior Lecturers

Peter Hosford Barry, BSc PhD Syd. Peter Raymond Carroll, BPharm MSc PhD Syd. David George Garlick, MB BS BSc(Med) Syd., PhD A.N.U. Eugenie Ruth Lumbers, MD BS Adel. Mark Joseph Rowe, BPharm MSc Syd., PhD N.S.W.

#### Lecturers

John Joseph Carmody, MB BS Q/d. \*\*David Brunton Gibb, BSc(Med) MB BS Syd., DObstRCOG Lond., FFARCS, FRCS, FFARACS

## **School of Psychiatry**

#### Professor of Psychiatry and Head of School

Leslie Gordon Kiloh, MD BSc Lond., FRCP, DPM(RCP&RCS), FANZCP, FRCPsych

#### Associate Professors

John Gavin Andrews, ChB MD Otago, DPM Melb., FANZCP, MRCPsych \*John Ewart Cawte, MD BS Adel., DPM Melb., PhD N.S.W., FANZCP, FRCPysch, FAPA Nathaniel McConaghy, MB BS Qld., BSc MD DPM Melb., FANZCP

#### Senior Lecturers

Ronald Ford Barr, MB ChB Glas., MD N.S.W., DPM(RCP&RCS), MANZCP, MRCPsych \*Leslie Allen Guile, MB ChB Liv., DPM Melb., MANZCP

+In the field of physiology.

<sup>\*\*</sup>Conjoint appointment with St. Vincent's Hospital.

<sup>\*</sup>Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

### Calendar

#### Lecturers

Percy Charles Ronald Birrell, BA Syd., PhD N.S.W. \*\*James Graham Durham, MB BS Adel., DPM Melb., MANZCP Susie Eva Maria Owen, MB BS Syd., DCH Glas., DPM(RCP&RCS), MANZCP Gordon Barraclough Parker, MB BS Syd., MANZCP \*Noel Maurice Wilton, MB BS Syd.

#### Tutor

Anita Lois Arnold, BA Leeds, MA Exe., BLitt Oxon.

#### St. George Hospital

Professor of Surgery and Head of Department Robert Mervyn Mitchell, BMedSc Otago, MB ChM N.Z., FRCS, FRACS

Associate Professor Christopher John Magarey, BSc(Med) MB MS Syd., FRCSEd, FRCS, FRACS

Senior Lecturer David Robert Hunt, MD BS Syd., FRACS

## School of Surgery

Chairman Professor R. L. Huckstep

#### St. Vincent's Hospital

Professor of Surgery and Head of Department Graham Douglas Tracy, MB BS Syd., FRCS, FRACS, FACS

#### The Prince Henry and The Prince of Wales Hospitals

Professor of Surgery and Head of Department Gerald Francis Murnaghan, MD ChM Edin., FRCS, FRACS, FRCSEd

Associate Professor of Ophthalmology Frederick Cossom Hollows, MB ChB N.Z., DO Lond., FRCS

### Associate Professors of Surgery

John MacKenzie Ham, MD BS Syd., FRACS \*John Saxon Wright, MB BS Syd., FRACS, FACS

#### **Clinical Associate Professor**

\*Leicester Atkinson, MB BS DMRT Lond., FRCS, FRACS, FACMA, FACR

#### Lecturers

\*Michael John Donnellan, MB BS Syd., FRACS \*John Edmond Frawley, MB BS Qld., FRACS Lawrence John Gray, MB BS Syd., FRACS Graham Leonard Newstead, MB BS N.S.W., FRACS, FRCS Bryan Wheaton Yeo, MB BS Syd., FRCS, FRACS

Professional Officer Margaret Anne Rose, BVetSc Syd. Associate Professor of Surgery Reginald Sidney Albert Lord, MD BS Syd., FRCS, FRACS

#### Lecturer Alon Edward Broy, MR BS Syd, EBCS, E

Alan Edward Bray, MB BS Syd., FRCS, FRACS

#### **Department of Anaesthetics and Resuscitation**

Senior Lecturers \*George Madgwick Davidson, MB BS DA Syd., FFARACS \*\*Brian Eric Dwyer, MB BS Syd., DA Lond., FFARCS, FFARACS \*Thomas Andrew Gabriel Torda, MB BS Syd., DA Lond., FFARCS, FFARACS

Lecturer §Colin Richmond Climie, MB ChB N.Z., FFARCS, FFARACS

\*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

\*\*Conjoint appointment with St. Vincent's Hospital.

SConjoint appointment with Royal Hospital for Women.

## Department of Traumatic and Orthopaedic Surgery

Hugh Smith Professor of Traumatic and Orthopaedic Surgery and Head of Department Ronald Lawrie Huckstep, CMG, MA MD Camb., FRCSEd, FRCS, FRACS

Lecturer

Timothy James Herbert, MB BS Lond., FRCS(Eng)

Research Assistant Susan Josephine Tipora McDonald, BSc N.S.W. Clinical Supervisors Medicine Warren John Kidson, MB BS N.S.W., FRACP

Surgery Geoffrey Russell Pritchard, MB BS Syd., MS Wash., FRACS

#### St. George Hospital

Warden of Clinical Studies Benedetto Haneman, MB BS Syd., FRACP

## **Electron Microscope Unit**

Electron Microscopist Melvyn Roderick Dickson, BSc N.Z., PhD A.N.U., DipRMS

#### St. Vincent's Hospital

Senior Administrative Officer (Medical) Sir Patrick John Kenny, MB BS Syd., FRCS, FRACS, FRCPGIas

Clinical Supervisors Medicine Reay Ignatius Eakin, MB BS Syd., MRCP, MRACP, FRACP

Surgery Brian Francis Sheridan, MB BS Syd., FRCSEd, FRCS, FRACS

#### **Medical Illustration Unit**

Officer-in-Charge Kenneth Walter Deason, AIMBI, ARPS, AIAP

#### **Royal Hospital for Women**

Warden of Clinical Studies Edward Graham Bosch, MB BS Syd., MRCOG

## **Clinical Teaching Administration**

#### **Teaching Hospitals**

#### The Prince Henry and Prince of Wales Hospitals

Senior Administrative Officer (Medical) Maxwell Elmore Thorpe, MB BS Syd., MD N.S.W., FRACP

## Associated Hospitals

#### **Bankstown Hospital**

Clinical Supervisor Peter Drummond Edwards, MB BS Syd., MRACP

#### **Canterbury Hospital**

Honorary Clinical Supervisor Peter Thomas Tornya, MB BS Syd., MRCP, MRACP

#### **Lewisham Hospital**

Clinical Supervisor Greg Leslie, MB BS Syd., FRCS, FRACS

#### **Sutherland Hospital**

Clinical Supervisor Noel Wesley Kinny, MB BS Syd., FRACS

### Centre for Medical Education Research and Development

Director and Professor Kenneth Russell Cox, MB MS Melb., FRCS, FRACS, FACS

## Regional Teacher Training Centre for Health Personnel

Acting Director Professor K. R. Cox

#### Lecturers

Arie Rotem, BA Hebrew Univ. of Jerusalem, MA PhD Calif. Christine Elizabeth Garrick, MB BS Syd. Warwick Graham Troy, MA Syd.

Administrative Officer Iris Shirley Gilfillan

Graduate Assistant Janice Clare Reid, BSc Adel., MA Hawaii, MA Stan. Royal Military College, Duntroon, ACT

## Faculty of Military Studies

Comprises Departments of Chemistry, Economics, Civil Engineering, Electrical Engineering, Mechanical Engineering, Geography, Government, Language and Literature, History, Mathematics, Physics; with tuition in Military Art, Military Science, and Military Technology.

Dean Professor J. C. Burns

Chairman Professor H. E. Green

Secretary Roy William Osmac Pugh, BE Syd., BA A.N.U., psc

Administrative Officers Paul Henry Kitney, ANZIM, psc John Dennis Harverson, BSc N.S.W., AAIFST, psc

Administrative Assistant Marcia Annette Daniel, BA Syd.

## **Department of Economics**

Professor of Economics Vacant Associate Professor and Head of Department Horace Sydney Hodges, BSc(Econ) DipEd Lond., FRGS

Associate Professor Joseph Wilczynski, BSc(Econ) Lond., BEd Melb., MEc A.N.U., PhD Lond., DSc N.S.W.

Senior Lecturer George Russell Webb, BA MCom Melb., MEc A.N.U.

Lecturer Abul Mansur Mohammad Masih, MA Dacca and Manc., PhD Leeds Lecturers Malcolm Hugh Mackerras, BEc Syd. Beverley Mary Male, BA PhD A.N.U. William Hugh Smith, BSc(Econ) MPhil Lond., PhD A.N.U.

Teaching Fellow Helen Ann South, BA A.N.U.

Research Assistant Margaret Anne Weir, BA N.S.W.

## **Department of History**

## **Department of Geography**

Professor of Geography and Head of Department Bruce Graham Thom, BA Syd., PhD Louisiana State

Associate Professor Eric Richard Woolmington, MA Syd., PhD N.E.

Lecturers James Sidney Burgess, MA PhD *Cant.* Laurence John Olive, BSc *N.E.*, MSc *Tas.* William Arthur Rieger, MA *Tor.* 

Teaching Fellow Alan Ray Davidson, BA N.S.W.

Research Assistant Susanne Mary Salisbury, BA A.N.U., DipEd CCAE Professor of History and Head of Department

Leonard Charles Frederick Turner, MA Rand., FASSA, jsc

#### Senior Lecturers

Alec Jeffrey Hill, MBE, ED, BA Syd., MA Oxon., MACE, psc John Malcolm McCarthy, BA Qld., MA N.S.W., PhD A.N.U. John Rodway Robertson, MA W.Aust. and A.N.U. Roger Clark Thompson, BA DipEd Melb., PhD A.N.U. Gerald Patrick Walsh, MA DipEd Syd., MA A.N.U.

Tutor Sandra McDonald, MA LaT.

Teaching Fellow Kevin John Fewster, BA A.N.U.

Research Assistant Margot Ziana Simington, BA N.E.

## **Department of Government**

Professor of Government and Head of Department Brian Dugan Beddie, BA Syd., PhD Lond., FASSA

Senior Lecturer Ellis David Daw, BEc Syd., MA A.N.U.

## Department of Language and Literature

Professor of English and Head of Department Vacant

Associate Professor John Tudor Larrd, MA Syd. Senior Lecturers

Barry Geoffrey Andrews, MA N.S.W., DipEd Syd., William Henry Wilde, MA DipEd Syd., MACE

## **Department of Mathematics**

Professor of Mathematics and Dean John Carlyle Burns, MSc N.Z., BA Camb., PhD Manc.

Associate Professor and Acting Head of Department Allister McMullen, MA Syd.

#### Senior Lecturers

Bruce Alan Barnes, MSc DipEd Syd. Neville John de Mestre, BSc DipEd Syd., MSc W.Aust., PhD N.S.W. Trevor Parkes, BSc Manc., MSc A.N.U.

Lecturers Keith Lawrence Byrnes, MA Syd. Edward Arthur Catchpole, BSc Lond., PhD Dund.

Tutor Timothy John Hunt, BSc Melb., DipEd Monash

#### **Computer Science**

Senior Lecturer Andrew John Quaine, BEE BSc Melb., MSc A.N.U.

Lecturer George William Gerrity, MSc Sask., PhD A.N.U.

## **Department of Chemistry**

Professor of Chemistry and Head of Department Richard Bearman, AB Corn., PhD Stan., FAIC

Associate Professor Boyd Dempsey, MSc Syd., BEd Melb., FRACI

#### Senior Lecturers

Trevor Norman Lockyer, MSc PhD N.S.W. Dennis Joseph McHugh, BSc Syd., PhD N.S.W., ARACI Eldon Percy Serjeant, MSc N.S.W., ARACI John William Tardif, MSc Syd.

#### Lecturers

Norman David Hamer, BSc Arizona State, PhD M.I.T. Shiu Pang Lee, BSc H.K., MA PhD N.Y. State

Teaching Fellow Kin Chee Ho, BSc W.Aust., PhD A.N.U.

Project Scientist Benjamin Colin Freasier, BSc PhD Louisiana

Professional Officer/Programmer Donn Lewis Jolly, BSc Flin.

Professional Officers Dennis John Isbister, BSc N.S.W., MSc Indiana Neil MacLay Wilson, BTech BSc Adel.

## **Department of Physics**

Professor of Physics and Head of Department Geoffrey Victor Herbert Wilson, MSc Melb., PhD Monash, FAIP

Associate Professor David Edward Swan, OBE, BSc Syd., BEd Qld., MInstP, MAIP

#### Senior Lecturers

Donald Hugh Chaplin, BSc PhD Monash Dudley Cecil Creagh, BSc DipEd Qld., MSc N.E. and Brist., PhD N.S.W., MIP, MAIP Edwin Dennis, MSc Adel., PhD A.N.U., GradAIP

#### Lecturers

Herbert Reginald Foster, BSc Syd., MSc A.N.U. Dennis Keith Fowler, MSc N.E., GradAIP Robert William Noel Kinnear, MSc N.Z., GradAIP Peter Lynam, BSc Birm., PhD S'ton., MIP

#### Post-Doctoral Research Fellow

Stewart James Campbell, BSc Aberd., MSc Sall., PhD Monash
#### **Teaching Fellows**

Leonidas Odysseus Barbopoulos, MSc Sir G. Wms. Peter Cooke, BSc Flin.

## **Department of Civil Engineering**

Professor of Engineering and Head of Department Thomas Grandin Chapman, BSc Leeds, PhD S'ton., FIEAust

#### Senior Lecturers

Alan John Bonham, BSc(Eng) Lond., MEngSc N.S.W., AKC, CEng, MICE, MIWE, MIEAust Leo Albert Peterson, BCE Melb., CEng, MIEAust John Sneddon, BSc(Tech) N'cle. (N.S.W.), PhD N.S.W., MIEAust

#### Lecturers

Bruce Wilfrid Golley, BE *Adel.*, MSc(Eng) PhD *Qu.*, MIEAust, AMASCE Muhammad Naseerul Haque, BSc *Lahore*, MEng *A.I.T. Bangkok*, PhD *N.S.W*.

Tutor Animesh Basu, MSc Calc., MS N.Y.

Teaching Fellow John Stewart Childs, BE Syd.

## **Department of Electrical Engineering**

Professor of Electrical Engineering and Head of Department Harry Edward Green, ME Adel., PhD Ohio State, CEng, FIEAust, MIEE, SMIEEE, jssc

#### Senior Lecturers

Geoffrey Cochrane, BSc Lond., PhD N.E., MInstP Cyril George Joseph Streatfield, BSc(Eng) Lond., CEng, MIEE, MIEAust

#### Lecturers

John Desmond Cashman, BE N.S.W., BA MSc A.N.U. Gordon Albert Moyle, ME Auck., CEng, MIEAust, MIREEAust, MIEE, MIEEE

Teaching Fellow Michael Faulkner, BSc(Eng) Lond., MEngSc N.S.W.

# Department of Mechanical Engineering

Professor of Mechanical Engineering and Head of Department Robert Kirby Duggins, BSc(Eng) Lond., PhD Nott., CEng, MIMechE

Senior Lecturer Thomas Guy, PhD S'ton., CEng, MIMechE, MAIAA

Lecturers Ian William Linnett, BE MEngSc Syd. Noel Edward Thompson, BSc Syd., MSc Birm.

Tutor Wai Yee Yuen, BE N'cle. (N.S.W.)

## **Computer Centre**

Manager Malcolm Charles Smith, ME N.S.W.

Programmer Wilma Stibbards, BSc Qld.

The following members of the staff of the Royal Military College, Duntroon, have been appointed members of the Faculty:

Department of Engineering C. W. Thomas, ASTC, MIEAust A. R. Watson, BE *Qld.*, CEng, MIMechE, MIEAust

Department of Mathematics D. L. Hoffman, BA A.N.U.

#### **Bridges Memorial Library**

Librarian Judith A. Wing, BA Syd., ALAA

The following military officers have also been appointed members of the Faculty:

Commandant, Royal Military College, Duntroon Major-General R. A. Hay, CB, MBE, idc, psc, psc(US)

Director of Military Art, Royal Military College, Duntroon Colonel A. Clunies-Ross, MBE, jssc, psc

Student Counsellor Lieutenant Colonel H. F. Buckham, BCom DipPsych *Qld.*, MAPsS, AA Psych Corps

Commanding Officer of the Corps of Staff Cadets Lieutenant Colonel R. J. Moyle, jssc, psc, RAAC

Second-in-Command of the Corps of Staff Cadets Major R. K. Hill, MC, RAAC

Chief Instructor Lieutenant Colonel D. E. Paterson, psc, psc(US), RAInf

Staff Officer 2 (Co-ordination) Major A. Harkness, BA A.N.U., psc, pl, RAA

#### **Company Commanders**

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## Faculty of Professional Studies

Comprises Schools of Health Administration, Librarianship, Social Work, and Education; Department of Industrial Arts.

Acting Dean Professor A. H. Willis

Chairman Professor L. M. Brown

# The following members of the University located at Kensington have also been appointed members of the Faculty:

Head of the School of Chemical Technology: Professor F. W. Ayscough

Head of the School of Chemistry: Professor J. S. Shannon Head of the School of Civil Engineering: Professor A. S. Hall Head of the School of Economics: Professor W. G. Rimmer Head of the School of English: Professor H. J. Oliver Head of the School of Geography: Professor J. A. Mabbutt Head of the School of History: Professor F. K. Crowley Head of the School of Mathematics: Professor V. T. Buchwald Head of the School of Mechanical and Industrial Engineering: Professor R. A. A. Bryant Head of the School of Metallurgy: Professor H. Muir Head of the School of Physics: Professor E. P. George Head of the School of Political Science: Professor D. M. McCallum Pro-Vice-Chancellor: Professor A. H. Willis Registrar of the University: Mr K. L. Jennings Associate Registrar of the University: Mr J. M. Gannon

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Professor of Education

Desmond John Drinkwater, MA Syd., MA PhD Lond., ABPS, MAPS, MACE

Professor of Science Education and Director of Science Teachers' Courses Austin Adolphus Hukins, MSc DipEd Syd., PhD Alta., MACE

Senior Lecturers Colin Fraser Gauld, BSc DipEd PhD Syd. James Henry Gribble, BA PhD *Melb., MPhil Lond.* Colman Kevin Harris, BA MEd *Syd.* Phillip Hugh Meade, BSc BEd *Qld.,* MA *LaT.,* PhD *N.S.W.* Barry Charles Newman, BA MSc PhD *Syd.* 

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Research Assistant Thomas Pepe, BA Long Is. Univ.

## **School of Health Administration**

Professor and Head of School

George Rupert Palmer, BSc *Melb.*, MEc *Syd.*, PhD *Lond.*, FSS, FHA

#### Associate Professor

John Colin Harris Dewdney, BA MD BS Melb., SM Harv., DPH Lond., DipTertEd N.E., FACMA, MFCM, MACE

Senior Lecturers Erica Margaret Bates, BA DipSocStud Syd., PhD N.S.W. Colin Grant, MA Oxon., AHA John Roger Bancks Green, ARIBA, ARAIA, AADip!

#### Lecturers

Sydney Samuel Wilton Davis, LLM Syd. Stephen John Duckett, BEc A.N.U., MHA N.S.W. Timothy John Philips, BCom N.S.W., DipEd Syd. Graeme Rawson, BA N.E., MA Macq.

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## **Department of Industrial Arts**

#### Associate Professor

Leslie Martin Haynes, BA MEd Syd., FRSA, FBPsS, FAIM, MACE

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Donald McArthur Godden, MSc *N.S.W.* William Richard Lawson, BSc PhD *N.S.W.* Keith Alexander Lodge, BE *Syd.*, SAEA John Kyle Redmond, MA *R.C.A.*, DipAd *C.S.A.D.*, FRSA, AIDIA

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## School of Librarianship

Professor of Librarianship and Head of School Melvin Weinstock, BSc Rutgers, MSc Drexel

Senior Lecturer Carmel Jane Maguire, BA Qld., MA A.N.U., ALAA

#### Lecturers

Jennifer Linsley Affleck, BA Syd., DipLib N.S.W., ALAA Jack Richard Nelson, MA Syd., ALAA Peter Orlovich, MA DipEd Syd., MLib N.S.W., ALAA Patricia Willard, BA N.E., MLib N.S.W., ALAA

Senior Tutor Merilyn Jean Bryce, BA Syd., DipLib N.S.W.

Tutor Melanie Seymour, BA DipEd Syd., DipLib N.S.W., ALAA

Administrative Assistant Peter Frank Kowald, BA DipEd Syd.

Honorary Associate Wilma Radford, BA MEd Syd., BSc Col., FLAA June Huntington, BA Lond. Margaret Teresa Lewis, BSocStud Qld., MSW N.S.W. Elizabeth Jane Lloyd, BA DipSocWk W.Aust., MSW N.S.W. Colin John Marshall, BA DipSocWk DipCrim Syd. Erkan Ongel, BS Ankara, MSW PhD Pitt. Pamela Marjorie Thomas, BA DipSocStud Syd., MS Col. Anthony John Toohey, BSW Qld. Christopher John Williams, B.A. Camb., DipSA Manc.

Senior Tutors Maisry Elspeth Browne, BA DipSocStud Syd. Jennifer Warner Wilson, BA BSocStud Syd.

### Tutors

Caroline Ann Bray, BA DipSocStud Syd. Jane Catherine Fishburn, BSW N.S.W. Elizabeth Leu, BSW Qld. Judith Estelle Taylor, BA DipSW W.Aust.

Teaching Fellow Geoffrey Norman Channon, BSW N.S.W.

Administrative Assistant Audrey Nancy Ferguson, BA DipSocStud Syd.

Research Assistant Rosemary Berreen, BSW N.S.W.

## **School of Social Work**

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#### Senior Lecturers

Robert U. Doyle, BA St Francis Xavier U., MSW Dal., PhD Tor. Gwendoline Audrey Rennison, MA Camb., CertSocSci&Admin L.S.E.

#### Lecturers

Shirley Jessie Barnes, BA DipSocWk Syd. Winsome Claire Bundey, BA N.S.W., DipSocStud Syd. Charles Maxwell Ross Cornwell, BA BSocStud Qld. Brian Anthony English, BSW N.S.W.

#### Professort

George William Kenneth Cavill, MSc Syd., PhD DSc Liv., FAA, FRACI

Professor of Theoretical and Physical Chemistry and Head of Department of Physical Chemistry Raymund Marshall Golding, MSc Auck., PhD Camb., FNZIC, FInstP, FRACI

Professor\*\* and Head of Department of Inorganic Chemistry Stanley Edward Livingstone, PhD DSc N.S.W., FSTC, FRACI

Professor of Analytical Chemistry and Head of Department of Analytical Chemistry Lloyd Earle Smythe, MSc Syd., PhD Tas., FRACI

Executive Assistant to Head of School William John Dunstan, MSc Svd., ARACI

Senior Administrative Officer Ralph Sutton, MVO, AFAIM, psc

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\*Board of Studies in Science and Mathematics.

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†In the field of organic chemistry.

\*\*In the field of inorganic chemistry.

# Faculty of Science\*

Comprises Schools of Chemistry, Mathematics, Optometry and Physics.

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Chairman Professor R. M. Golding

Director of Studies in Science Associate Professor L. G. Parry

Graduate Assistant Emma Shackleton Rossi, BA Syd.

## **School of Chemistry**

Professor of Chemistry and Head of School James Stanley Shannon, DIC, PhD Lond., DSc Adel., FRACI

#### Professor of Organic Chemistry

Stephen John Charles Angyal, PhD Bud., DSc N.S.W., FAA, FRACI

#### **Department of Analytical Chemistry**

Associate Professor Douglas Peter Graddon, MSc PhD Manc., FRIC

Senior Lecturers Peter William Alexander, MSc PhD Syd., ARACI Ian Kelvin Gregor, BSc N.E., MSc PhD N.S.W. Ewan Cameron Martin, MSc PhD N.S.W., ASTC, FRACI

Lecturers

Sergio Dilli, BSc PhD N.S.W., ASTC, ARACI Jaroslav Petr Matousek, MSc T.U.(Prague), ARACI

Teaching Fellow Vyt Peter Garnys, BSc W.Aust., ARACI

## **Department of Nuclear and Radiation Chemistry**

Associate Professor and Head of Department Douglas John Carswell, MSc PhD DipEd Syd., FRACI

Senior Lecturers Norman Thomas Barker, MSc PhD N.S.W. Mervyn Allan Long, MSc PhD Auck., ANZIC

Tutor Anu Mihkelson, MSc N.S.W., PhD Syd.

#### **Department of Organic Chemistry**

Associate Professor and Head of Department Ronald Arthur Eade, MSc Syd., PhD Liv., FRACI

#### **Department of Applied Organic Chemistry**

Associate Professor and Head of Department Edward Ritchie Cole, MSc Syd., PhD N.S.W., FAIFST

Senior Lecturer George Crank, MSc Qu., PhD Monash

#### Lecturers

Norman William Herbert Cheetham, BSc PhD Qld. Peter Thomas Southwell-Keely, BSc Syd., PhD N.S.W.

Senior Tutor Durvasula Satya Narayana Murthy, MSc And., PhD Syd., ARIC

#### Associate Professors

Peter Steele Clezy, BSc PhD Tas., ARACI Robert Jack Louis Martin, MSc Melb., PhD Lond., ARACI John Johnson Henry Simes, MSc DipEd Syd., PhD Liv., FRACI

#### Senior Lecturers

John Lawrence Courtney, BSc PhD N.S.W., ASTC, ARACI William John Dunstan, MSc Syd., ARACI Michael John Gallagher, MSc Qld., PhD Camb., ARACI John David Stevens, BSc Tas., PhD N.E., ARACI

Lecturer George Vernon Baddeley, BSc Manc., DPhil Oxon.

Senior Tutor Inno Salasoo, BSc PhD N.S.W., ASTC, ARACI

#### **Department of Inorganic Chemistry**

Associate Professor Harold Andrew Goodwin, BSc PhD Syd., ARACI

#### Senior Lecturers

James Roy Backhouse, MSc Syd., PhD N.S.W. Ian Gordon Dance, MSc Syd., PhD Manc., ARACI David John Phillips, BSc PhD Lond., ARACI

Lecturer Benjamin Sidney Morris, MSc Syd., ARACI

#### **Department of Physical Chemistry**

Associate Professor John Lyndon Garnett, MSc N.S.W., PhD Chic., ASTC, ARACI

Senior Lecturers Gregory Stewart Buchanan, MSc Syd., ARACI Brian Raymond Craven, MSc PhD N.S.W., ASTC Tristan John Victor Findlay, BSc PhD St. And., ARACI William David Johnson, BSc Syd., MSc N.E., PhD N.S.W. Prosper David Lark, BEc Syd., MSc PhD N.S.W., ASTC, ARACI Brian John Orr, MSc Syd., PhD Brist., ARACI

Lecturers David Scott Alderdice, MSc Syd., PhD Lond. Ruby Foon, MSc PhD Melb. Alan David Rae, MSc PhD Auck., ANZIC

Senior Tutor Martin Peter Bogaard, BSc PhD Syd.

Tutor Remedios Ona Pascual, BSPharm Philippines, MA PhD Col.

Teaching Fellow Russell Clive Cowell, BSc Syd.

## **School of Mathematics**

Professor of Theoretical and Applied Mechanics and Head of School Viliam Teodor Buchwald, BSc Manc., MSc PhD Lond., FIMA

Professor of Applied Mathematics John Markus Blatt, BA Cinc., PhD Corn. and Prin., FAA, FAPS

Professor of Pure Mathematics Gavin Brown, MA St. And., PhD N'cle.(U.K.)

Professor of Statistics Abraham Michael Hasofer, BEE Faruk, BEc PhD Tas., MIEAust

Professor of Pure Mathematics \*George Szekeres, DiplChemEng Bud., FAA

Director of First Year Studies Associate Professor Angus Henry Low, MSc DipEd Syd., PhD N.S.W.

Executive Assistant to Head of School Douglas Edward Mackenzie, BSc *Tas*.

Administrative Assistant Pamela Jean Monk, BSc N.E.

Professional Officer Loy Tong Yeo, BSc BE N.S.W.

#### **Department of Pure Mathematics**

Associate Professor Alfred Jacobus van der Poorten, BA BSc PhD MBA N.S.W.

Senior Lecturers Peter Windeyer Donovan, BA BSc Syd., DPhil Oxon. Jack David Gray, BA Syd., PhD N.S.W. Ezzat Sami Noussair, BA BSc Cairo, PhD Br.Col. John Frederick Price, MSc Melb., PhD A.N.U. John St. Alban Sandiford, MSc Syd.

\*Retired from the University 31 December 1976.

### **First Year Chemistry**

Director of First Year Classes in Chemistry June Clare Griffith, MSc N.S.W., PhD Syd.

Senior Lecturer Norman Robert Davies, BSc PhD Lond., FRIC

#### Lecturers

Roger Bishop, BSc And., PhD Camb. Clive Reginald Taylor, BSc Syd.

Senior Tutor Peter See Kien Chia, MSc PhD N.S.W.

Tutors Victor Chen-Teh Bien, MSc Syd. Nguyen Quang Minh, BSc PhD N.S.W.

Teaching Fellow Mohammad Akhtar Malik, MSc Panj.

#### Lecturers

Charles Dixon Cox, BSc DipEd *Qld.* Shaun Anthony Requa Disney, BA Adel., DPhil Oxon. Mary Ruth Freislich, BA Rand., MA N.S.W. Michael Gillingham Greening, MA Lond. David Christopher Hunt, BSc Syd., MSc PhD Warw. Rodney Kelvin James, BSc PhD Syd. John Harold Loxton, MSc Melb., PhD Camb. Ronald William Ramsay, BSc PhD Monash David Graham Tacon, BSc N'cle.(N.S.W.), PhD A.N.U.

#### Senior Tutors

Michael David Hirschhorn, BSc Syd., MSc Edin. Agnes Vilma Nikov, DiplMath DiplEd Bud.

#### Tutors

Gregory Karpilovsky, Dipl Uzhgorod, DiplPhD Kharkov Richard Nicholas Reddan, BSc Qld.

### Honorary Associate

Gregory Maxwell Kelly, BSc Syd., BA PhD Camb., FAA

## Department of Applied Mathematics

#### Associate Professors

lan Hugh Sloan, BA BSc Melb., MSc Adel., PhD Lond. William Eric Smith, MSc Syd., BSc Oxon., PhD N.S.W., MinstP

#### Senior Lecturers

Elvin James Moore, MSc W.Aust., PhD Harv. Kazuto Okamoto, BS Tokyo, PhD Louisiana State

#### Lecturers

Michael James Barber, BSc N.S.W., PhD Corn. Brian James Burn, MSc Otago, PhD Camb. Alexander Hugh Opie, BSc DipEd Melb., PhD Monash Kok-Lay Teo, BSc Sing., MASc PhD Ott., MIEEE, AMIEE

#### Senior Tutors Mandel Brender, BSc McG.

Felicity Alison Dewar, BSc Qu.

#### Tutors

Cameron Kidd, BSc Syd. Jan Dennis Newmarch, BSc Brist.

### **Department of Statistics**

Associate Professor of Mathematical Statistics James Bartram Douglas, MA BSc DipEd Melb.

Associate Professor Clyde Arnold McGilchrist, BSc BEd Qld., MSc PhD N.S.W.

Senior Lecturers Anthony Gilbert Lewis Elliott, BSc W.Aust. Marek Kanter, BA Rice, PhD Calif. Phillip Joseph Staff, BSc DipEd Syd., MSc PhD N.S.W. Manohar Khanderao Vagholkar, DIC, MSc Bom., PhD Lond.

#### Lecturers

Peter John Cooke, MSc N.E., MS PhD Stan. Ronald Bruce Davis, BSc Syd., MSc N.S.W., DipEd N.E. John Anthony Eccleston, BSc Syd., MSc Man., PhD Corn.

Tutor Nelson Shik Yin Tsang, BSc N.E.

Professional Officer Rhonda Gock, BSc N.S.W.

Honorary Associate Alan John Miller, MSc PhD Manc., FSS

### **Department of Theoretical and Applied Mechanics**

Associate Professor Simon Jacques Prokhovnik, BA MSc Melb.

Senior Lecturer Colin Bruce Kirkpatrick, MSc Syd., AlnstP

Lecturers Noel Geoffrey Barton, BSc PhD W.Aust. Michael Leslie Banner, BE MEngSc Syd., PhD Johns H. John Desmond Fenton, BE MEngSc Melb., PhD Camb. Douglas Edward Mackenzie, BSc Tas. William Dennis McKee, BSc Adel., MSc Flin., PhD Camb. David Allan Mustard, BSc Syd., MSc N.S.W. Senior Tutors Donald Sidney Craig, BSc Qld. Albert Tator Daoud, BSc R'dg.

#### Tutors

Alan Glenn De'Ath, BSc N'cle.(U.K.) Elizabeth McCarthy, BSc Teesside Polytech Gordon Robert Pennock, BSc Heriot-Watt

#### Honorary Associate

Bruce Valton Hamon, BSc BE Syd., MAIP

## **School of Physics**

Professor of Physics and Head of School Eric Paul George, BSc PhD Lond., DSc N.S.W., FinstP, FAIP

Professor of Experimental Physics and Head of Department of Applied Physics Hiroshi Julian Goldsmid, BSc PhD DSc Lond., FinstP. FAIP

Professor of Experimental Physics Kenneth Norman Robert Taylor, BSc PhD Birm., FInstP

Professor of Theoretical Physics and Head of Department of Theoretical Physics Heinrich Hora, DipPhys Halle, DrRerNat Gena, FAIP

Professor of Applied Physics Vacant

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Executive Assistant to Head of School Kenneth Mann, BSc Qld., MSc N.S.W.

Director of First Year Studies Dr G. J. Russell

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\*Established from 1 January 1977. Formerly part of School of Applied Physics and Optometry, whose Head of School and Professor of Applied Physics, Christopher John Milner, MA PhD Camb., FinstP, FAIP, retired from the University 31 December 1976.

## School of Optometry\*

Professor of Optometry and Head of School Josef Lederer, BSc Syd., MSc N.S.W., ASTC, FIO

Associate Professor George Amigo, BSc(OptSc) PhD N.S.W., ASTC, FIO, FAAO

#### Senior Lecturers

Brien Anthony Holden, BAppSc *Melb.*, PhD *City*, LOSc VCO(Melb), FAAO Maxwell McNeil Lang, BSc PhD *N.S.W.*, ASTC, FIO, FAAO, MAIP

#### Lecturers

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Professional Officer Angela Kathleen McCarthy, ASTC, FIO

#### Tutors

David Cecil Pye, BOptom N.S.W. Bernard Peter Tan, BSc(Optom) Melb., LOSc VCO(Meib)

Instructor Ian William Robinson

#### Lecturers

Peter Russel Elliston, BSc Melb., PhD Monash Veronica Jean James, BA BSc Qld., PhD N.S.W., MAIP Kenneth Hulme Marsden, BSc Lond., MSc N.S.W., MInstP, MAIP, ARCS Peter Mitchell, BSc PhD Adel., MAIP George Lange Paul, MSc Syd., PhD Edin., MAIP James Martin Pope, MSc Brist., DPhil Sus., AInstP Andrew Morven Stewart, DIC, MA Camb., AM Harv., EE Col., PhD Lond., MInstP, MIEEE

#### Senior Tutors

Ian Richard Dunn, BSc BA Melb., MIEEE Edward Peter Eyland, BSc MPhysics N.S.W., BD Lond. Martin Desmond Knight, BSc N.S.W.

#### Tutors

Robert Geoffrey Ashcroft, BSc Syd. Kenneth Richard Doolan, BSc Syd. Walter Kalceff, BSc DipEd Syd. Phillip Andrew Miles, BSc N.S.W. Paul Michael O'Halloran, BA Macq., GradAIP John Dorsett Smith, BSc Indiana S.U. John Robert Smith, BSc Syd.

#### **Teaching Fellows**

Robert Leendert Calvert, BSc S'ton, MSc Qu. Kevin Charles Fitzsimmons, BSc Syd. Prem Darkash Narang, MSc Delhi Ahmed Abdul Rahman, BSc Qld., MSc N.S.W. Janis Lee Van Doorn, BSc Adel.

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#### Honorary Associates

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#### Honorary Visiting Fellows

Victor Kastalsky, BSc PhD N.S.W., ASTC, MInstP, MAIP

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#### Associate Professors

Brian Ronald Lawn, BSc PhD W.Aust., GradInstP David Henry Morton, MA Oxon., FInstP, FAIP Howard Frank Pollard, MSc W.Aust., PhD N.S.W., MInstP, MAAS, MASA, MAIP

#### **Senior Lecturers**

John Ian Dunlop, BSc PhD N.S.W., MAIP, MAASATI John Robert Hanscomb, BSc Qld., MSc PhD N.S.W., MAIP, GradInstP Leslie Bevan Harris, BSc Lond., BA DipEd Durh., PhD N.S.W., AIM, AInstP Victor Raymond Howes, BSc PhD Lond.

#### Lecturers

Kenneth Mann, BSc Qld., MSc N.S.W.

#### Tutors Vu Van Hoi, BSc BE N.S.W.

#### **Department of Theoretical Physics**

Senior Lecturers Jaan Oitmaa, BSc PhD N.S.W., MAIP

#### Lecturers

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Teaching Fellow Ting Hun Ho, BSc H.K.

Analyst Programmer lan Leslie Johnstone, BSc N.S.W.

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AGSM Librarian Pamela Ann Taylor, BA Syd., DipLib N.S.W., ALAA

Librarian Susan Rae Hornby, BA Syd., DipLib N.S.W., ALAA

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Administrative Assistant Matthew Percy Ross Percival, BA N.S.W.

Secretary to the Director Angelica Friedrich

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#### Associate Professors

George Foster, MEc Syd., PhD Stan. Philip Yetton, BA Camb., DipIndustAdmin Liv., MS PhD Carnegie-Mellon

Senior Lecturer Robert Bryan Vermeesh, LLM Syd.

#### Lecturer

David Francis Midgley, BSc Salf., MSc PhD Brad.

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Comprises Department of General Studies.

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Administrative Assistant Helen Rothwell, BCom N.S.W.

#### Lecturers

Philip Brian Bell, BA PhD Syd. Roger John Bell, BA N.S.W., MA PhD Syd. Geoffrey John Borny, BA Durh., DipEd Syd., PhD N.S.W. John Matthew Brown, BA MCom N.S.W. Catherine Mary Burke, BA DipEd Syd. Graeme Henry Patrick Connelly, BA MSc(Econ) Lond. Norman Douglas, BA N'cle.(N.S.W.) PhD A.N.U. Helen Ronnie Harding, BA Syd., BSc N.S.W. lan David Iredale, MCom N.S.W. Richard Edward Waring Kennedy, MA Melb. Robyn Janet Lim, BA Qld., PhD A.N.U. Richard John Martyn Lucy, BA Syd., PhD N.S.W. John Harold Masters, BA Melb., PhD Syd. Kenneth Graham Pont, BA Syd., PhD A.N.U. Phillip James Staines, BA N'cle.(N.S.W.) John Cromarty Tulloch, BA DipEd Camb., PhD Sus.

Senior Tutor Gladys Mary Palmer Norton, BA LLB Adel.

Tutors Kathleen Boehringer, BA Syr. Angela Elizabeth Hale, BA Syd. Kerryn Higgs, BA Melb.

## **Department of General Studies**

Professor and Head of Department of General Studies Ralph Frederick Hall, MA PhD Syd.

Senior Lecturers David Robert Mackenzie Burns, MA DipEd Melb. Peter Keeton Lomas, BCom Durh., MCom Rand Joan Margaret Ritchie, MA Melb., MEd Syd. James Robert Erskine Waddell, MA Oxon., CertEd Birm., MSc Lond., PhD P.N.G.

Tutor Nina Petrovsky, BEcSc Harbin

Visiting Fellow Haruko Murakami, BA ICU Tokyo

## Institute of Marine Sciences

# Institutes and Other Bodies

## Institute of Administration

Director Vacant

Course Directors Lalor Edward John Curran, BA Syd., MBA N.S.W., ASTC, ACIS, AASA(Senior) Leslie Ronald Lewarne, BA Syd. Robert Learmonth Young, BCom Melb.

Administrative Assistant Joan Kennedy Dwyer, BCom N.S.W.

House Manager, Residential Centre John Dench

# Vacant

Director

## Institute of Rural Technology

Chairman Professor Albert Henry Willis, DSc(Eng) Lond., CEng, FIMechE, FIEAust, MemASAE, WhSc

Technical Secretary John William Alfred Brain, BA Syd.

# Division of Postgraduate Extension Studies

## Institute of Languages

Director Alex John Garrick, BA DipEd *Melb.*, psa Co-ordinator of Postgraduate Extension Studies Associate Professor Derek Broadbent, BSc *Birm.*, MEngSc PhD *Melb.*, SMIEEE, FIREEEAust, MIEAust, MIEE

Senior Producer John Hendry Shaw, MSc DipEd Syd., FRGS

Television Producer Tony Keulemans, BCom GradDip N.S.W., PhD Colorado

Producers Robert Iwao Wijbren Hoogenboom, BA Syd. Robert Charles Mitchell, BE Syd., MEngSc N.S.W., MIREE(Aust)

Production Assistant Bruce Bluett, BA DipEd Syd.

Administrative Officer Rene Lemercier, AFAiM, psc, psa

Administrative Assistant Trudy Dunne, BSc GradDip N.S.W.

Postgraduate Committee in Medical Education

Honorary Director Edgar Frederick Thomson, CMG, OSTJ, MB ChB N.Z., FRACP, FRCPA, FRIPH, FHA, FACMA

Administrative Officer Charles Paul Moess, DJur Bud., BA Syd. Senior Lecturers David Vincent Connor, BA BEd Qld., PhD Lond., ABPsS, MACE Maxwell Rolfe Dunstan, BA MEd PhD DipEd Syd.

Senior Education Officer Douglas John Magin, BA LittB N.E.

Education Officers Merilyn Teresa Armstrong, BSc DipEd N.S.W. Evelin Madge Barrett, BSc(Econ) Lond. Denis Edmund Kelly, BSc N.S.W., BA A.N.U. Margot Pearson, MA Auck., EdS Mich. Christine Ellen Wieneke, BA Syd.

Research Assistant Kordyan Lewandowski, MAEd Calif.

Film Officer Patrick Matthew, LMusTCL

Officer-in-Charge, Productions George Pashuk

Programmers Ian Duart Maclean Ian Roberts, BSc N.S.W. Ian David Shannon, BSc N.S.W.

## **Tertiary Education Research Centre**

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Assistant Director John Percival Powell, BA Brist., MA Dub., PhD A.N.U.

Editorial Services Officer Anthony Joseph Eames

#### Information Section

University Information Officer James Gibb Loudon, BA A.N.U.

Assistant Information Officer Geraldine Kirshenbaum, BA Col.

# Vice-Chancellor's Unit and Administration

# Vice-Chancellor's Unit

#### Vice-Chancellor and Principal

Professor Rupert Horace Myers, CBE, MSc PhD Melb., Hon. LLD Strath., Hon. DSc W'gong., FIM, FRACI, FAIM, MAusIMM

Senior Administrative Officer Kevin Maxwell Barry

Secretary to the Vice-Chancellor Joan Patricia Waghorn

#### **Public Affairs Unit**

Adviser, Public Affairs and Head of Unit Robert Peter Campbell Pockley, BSc DipEd Melb., DPhil Oxon.

#### **Editorial Services Section**

Manager of Editorial Services Marianne Joan Devin, BA LittB N.E., MEd Syd., DipArt(Ed), MACE, MPRIA

#### **Department of Music**

Associate Professor and Head of Department Roger David Covell, BA Qld.

#### Lecturer Patricia Anne Brown, MA Qld., DipLib N.S.W.

#### **Computing Services Unit**

Manager Vacant

Assistant Manager Systems Software John Gergen, BPh MS PhD Minn.

Assistant Manager Operations Graham David Lodwick, BSc Qld., MACS

#### Senior Analyst/Programmers

Peter Ronald Hewitt, BSc Melb. John Tindale, BSc Adel.

Analyst/Programmers

John Phillip Beale, BSc PhD N.S.W. Noel Diaz, BScEE BScME Feati, MScEE Purdue Andrew Ronald Dodds, BSc Qu. Shu Fai Mok, BSc N.S.W. James Murray, BSc Glas. Geoffrey Innes Smith, BE MEngSc N.S.W.

Professional Officer (Engineer) Vladimir Kuperman, BSc(Eng) N.S.W.

Graduate Assistant John Stanton Burkitt, BSc Syd., ARMTC

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Senior Internal Auditor Bruce Lance Marsh, BEc Syd., AASA

Auditor Anthony Van der Horst, AASA(Senior), ACIS

#### **Admissions and Higher Degrees Section**

Assistant Registrar John Philip Hill, ASTC

#### Undergraduate Admissions Unit

Senior Administrative Officer John Vincent Beauchamp, BA N.S.W.

#### **Higher Degrees Unit**

Administrative Officer Stuart Nelson Clarke, LLB Lond.

Senior Lecturer Roy Stafford Caddy, BSc DipEd Syd., MinstP, MAIP, MAAS

Radiation Protection Officer Ronald Rosen, MSc N.Z., PhD N.S.W., MinstP, MAIP

# Alumni Office, Printing Unit and Publications Section

Assistant Registrar Douglas Sinclair Howie, BA Br.Col.

#### Alumni Office

Administrative Officer Idelies Maria Louwers, BA N.S.W.

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Associate Registrar John Martin Gannon, ASTC, ARACI

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#### **Printing Unit**

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#### **Publications Section**

Officer-in-Charge David Ernest Milliss, BA Syd.

Administrative Assistant Pamela Joyce McDonnell, BA Syd.

Publications Assistant Anne Elizabeth Lawrence, BA N.S.W.

#### **Data Processing Section**

Officer-in-Charge Graham Francis Mayne, ASTC

Systems Analysts Keith William Jordan John Baron Laing, BA Macq.

#### **Statistics Section**

Senior Administrative Officer Paul David Best, BA N.S.W.

Administrative Assistant John Edward Chappell, DipSoc N.S.W.

#### **Examinations and Student Records Section**

Assistant Registrar John Arnold Warr, DSO, BA Melb., AFAIM

Senior Administrative Officer Veronica Fisher

#### **Examinations Unit**

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Administrative Assistant Richard John Greenwood, BA N.S.W.

#### **Student Records Unit**

Administrative Officer John Aitken Clark Morrison

Administrative Assistants Ronald Russell Kendall, BSc U.S.M.A. Robyn Mulholland, BA N.S.W.

#### Secretariat

Assistant Registrar and Secretary to Council Raymond Arthur Nicol

Senior Administrative Officers Geoffrey Taylor Bradshaw Terence James Wallace

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Head Ian Edmund Joseph Moutray, BA Syd., MEd N.S.W., DipPhysEd

Deputy Head/Executive Officer of Sports Association William Arthur Harris, BCom N.S.W.

Supervisor of Physical Recreation James Andrew O'Brien, BEd W.Aust. DipPhysEd

Assistant Supervisor of Physical Recreation Deborah Michelle Carroll, DipPhysEd

Student Housing Officer Judith Anne Hay, BA N.E.

Administrative Assistant Yannick Aubree, BA Bordeaux, LLB Paris, LLM Texas

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#### Senior Counsellors

Robert Archibald Sheen, MA Syd., MEd N.S.W., MAPsS John Charles Wheeler, BA DipEd Syd., MAPsS

#### Counsellors

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Senior Research Officer Keith Leslie Underwood, BA Syd., PhD N.S.W., ASTC, MAPSS

Research Officers Kenneth Roy Mitchell, MSc N.S.W., PhD N.S.W., MAPsS, MACE, ABPsS Basil Smith Walker, BSc N.S.W., MAPsS

Research Assistant Margaret Eleanor Lawson, BA Syd. Associate Bursar (Finance) George Dixon Christie, AASA

Deputy Bursars Valerie May McCallum, BSc N.S.W., MAPsS Jack Alexander Owens, BA Syd. Bruce Cecil Smith, AASA

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**Student Employment and Scholarships Unit** 

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Administrative Officer Garry de Jager, BSc N.E.

Administrative Assistants Adrian Thomas Michael Hall, BA N.S.W. Kenneth Charles Stuart, BCom N.S.W. Assistant Bursar (Accounting) Kenneth James Williams, BCom N.S.W., AASA

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Paymaster and Investment Records Officer Mervyn Ray Atherton

Examiner of Accounts Leslie Allan Deveridge

Salaries and Wages Officer Reginald Clement Snellgrove

#### **Student Health Unit**

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Medical Officers James George Blyth, MB ChB Edin., DRCOG Lond. Igor Galitsky, MB BS Syd.

Nursing Sisters Hillegonda Aafje Krans, SRN, SRM Susan Lavinia Thompson, SRN

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University Appointments Officer Dennis Lloyd Moore

Appointments Officer Warwick Acott, BA Syd.

Employment Officer Peter John Seymour Thom, BA N.S.W.

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Chief Ledgerkeepers Kevin James Austin (Special Purposes) Eric William Bamforth, AASA (General)

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Bursar Thomas Joseph Daly, BEc Syd.

#### **Costing and Analysis Unit**

Senior Administrative Officer Norman Charles Moore

Investigation and Analysis Officer John Desmond Bullivant

Administrative Officer Michael James Anstiss, BCom N.S.W., AASA

Administrative Assistant William Christiaan Van Kalken

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Business Manager (Property) Robert Kennedy Fletcher, LLB Syd.

Associate Business Manager (Property) James Emery Moore, MA LLB Syd.

Deputy Business Manager (Property) Ian Richard Way, BE Qld., MIEAust

Legal Officer Albert Charles Edghill

Administrative Assistant Roger Michael Parks, BEc Monash

#### **Establishments Office**

Administrative Officer Roger Dye, BCom N.S.W.

#### **Purchasing Branch**

Assistant Bursar (Procurement) John Frank Ernest Best

Purchasing and Stores Officer Keiran Russell Young

Assistant Purchasing Officer Peter Stanley Harry Miles

Registry

Officer-in-Charge

Ronald Frederick Nelson

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Architects

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Robert Thomas Reid Bennett, BArch N.S.W., ARAIA Allan Lindsay Craig, DipTCP Syd., ASTC, ARAIA Peter Alfred Godhard, BArch Syd., ARAIA

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Assistant Engineer Barrie Glenn Windhurst, MEngSc N.S.W., ASTC, MIEAust

Maintenance Controller Robert Osborne Kent

Curator William Gregory Hart

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Warden, Philip Baxter College Professor Eric Paul George, BSc PhD Lond., DSc N.S.W., FInstP, FAIP

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Administrative Assistants Terence David Hand, BA N.S.W. George Frederick William Sanders, BA Syd.

## **International House**

#### **Patrol & Cleaning Services**

Superintendent Dennis Michael McMahon

Deputy Superintendent Walter Dunn Warden

Professor John Spurgeon Ratcliffe, MSc PhD N.S.W., ASTC, CEng, FIREE, FIEAust, FIChemE

The Prince Henry, The Prince of Wales and The Eastern Suburbs Hospitals

Assistant Warden June Hall

## **The University Union**

Warden A. T. Cuningham, ED, BEc Syd. Chief Executive Officer John Edward Delaney, BHA N.S.W.

## **The Kensington Colleges**

Master Kenneth William Bromham, ED, BA MEd DipEd Syd.

Warden, Basser College John Eric Giutronich, BSc Syd., PhD N.S.W., AAIP

## **Unisearch Limited**

General Manager and Secretary Barry Rosenberg

Administrative Officer Ross Arch Lewis, BCom N.S.W.

#### **Acquisitions Department**

Acquisitions Librarian Dora Petrie Berman, BA Syd., DipLib N.S.W., ALAA

Senior Librarians Margaret Pam Glock, BA N.E., ALA, ALAA Pamela Margaret O'Brien, BEc Adel., DipLib N.S.W., ALAA Johanne Elizabeth Stubbin, BA Qld., ALAA Isabella Doris Trahn, BA Qld., DipLib N.S.W.

Librarians Annette Joy Quay, BA Syd., DipLib N.S.W. Marjorie Robin Shelley-Jones, BA N.S.W., ALAA Roberta Seymour Whitehead, BA Syd., DipLib N.S.W.

Senior Clerk Warren Alan Duggin

#### **Cataloguing Department**

Head Cataloguer Vacant

Senior Librarians Frances Jossek, BA Syd., DipLib N.S.W. Jeanette Sau Ling Shi, BA Syd., DipLib N.S.W.

#### Librarians

Julia Hamilton Barton, BA Syd., DipLib N.S.W. Ronald Sherby Berman, BA Brandeis, MLS Pratt Inst., N.Y. Virginia Carter, BA Macq., DipLib N.S.W. Elaine N. Hall, BA Well., MA Auck., DipT N.Z., ALAA Mohammed Kazim, BA DipLib N.S.W., ALAA Fides Datu Lawton, BLS Philippines, ALAA Thomas Pill, BA Syd., DipLib N.S.W. ALAA Irene Smith, BA DipLib N.S.W. Kerrie Edith Talmacs, BA Syd., DipLib N.S.W. Judith Irene Wilson, BA Syd.

#### **Reader Services Division**

Reader Services Librarian Brian Douglass Foote, BDSc Qld., DDS Tor., ALAA

Reader Education Librarian Margaret Susan Perkins, BA Syd., DipLib N.S.W.

# Library

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Deputy University Librarian Robert Ziegler Langker, BA Syd., ALAA

Systems Supervisor David Tung, BSc N.S.W., DipLib Canberra C.A.E.

Systems Analyst Kewan McDonaid

Senior Librarian (Systems) Margaret Lyndall Grose, BSc N.S.W., DipLib Canberra C.A.E.

#### Librarians

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## **Technical Services Division**

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Audio Visual Librarian Drummond William George McBain, MA St. And., DipLib N.S.W., ALAA

Librarian John Hadfield Holland, BA Syd., DipLib N.S.W., ALAA

#### Joint Services Group

Circulation Librarian Roslyn Margaret Walker, BA Syd., ALAA

Librarian Rosaline Wai-Shan Young, BSocSci H.K., DipLib N.S.W., ALAA

#### Physical Sciences Library

Physical Sciences Librarian Janine Betty Schmidt, BA Qld., ALAA

Deputy Physical Sciences Librarian Dorothy Anne Basili, BA Syd., DipLib N.S.W.

#### Librarians

Librarians

Susan McGowan, BA Wales, DipLib N.S.W. Walter Duncan Rutherford, BA Syd., DipLib N.S.W. Phin That Tjhai, BE DipLib N.S.W., BArch Syd.

#### Social Sciences and Humanities Library

Social Sciences and Humanities Librarian Alan John Walker, BA Syd., DipLib N.S.W., ALAA

Bernard Thomas Price, BA Syd., DipLib N.S.W. David George Reeder, BA Syd., DipLib N.S.W. Charmaine Susan Symonds, BA DipLib N.S.W.

Anne Wilhelmina Van Wienen, DrEcon Hamburg, DipCom Berl.,

#### **Biomedical Library**

Biomedical Librarian George Thomas Franki, BDS Syd., DipLib N.S.W., ALAA

Deputy Biomedical Librarian Betty Waddell McEwin, BSc Adel., ARMIT

#### Librarians

Monica Cecilia Davis, BA DipEd Chile, DipLib N.S.W. Mary Carmel Patricia Linnane, BEc Qld., DipLib N.S.W.

#### Prince Henry Hospital

Librarian Joyce Barry Pate, BA Syd., DipLib N.S.W.

#### Law Library

Law Librarian Robert Francis Brian, BA A.N.U., DipLib N.S.W., ALAA

Deputy Law Librarian John Paul Moulos, BEc Syd., DipLib N.S.W., ALAA

#### Librarians

Margaret Selina Bettison, BA DipEd Adel., ALAA Donald William Goodsell, BA LLB Auck., DipNZLS

#### **Undergraduate Library**

DipLib N.S.W., ALAA

Undergraduate Librarian Patricia Frances Howard, BA Syd., ALAA

Senior Librarian Helen Lorne-Smith, BSc Syd., DipLib N.S.W., ALAA

#### Librarians

Rani Khuman, BA *Punjab*, DipLib *N.S.W.* Pasu Visvalingham Pasupathy, BA *Malaya*, DipEd *Syd.*, DipLib *N.S.W.* Linda Margaret Rouse, BA *Tas.*, DipLib *N.S.W.* 

#### Water Research Library

Senior Librarian Judyth Ann Shaw, MA Syd., ALAA Librarian\* Fay Ruth Winter, BA Syd., ALAA

# **Broken Hill Division**

Director Professor J. E. Andersen

# W.S. and L.B. Robinson University College

Director and Head of Department of Science Professor John Everard Andersen, BE *Melb.*, PhD *N.S.W.*, FIEAust, MAusIMM, ARACI

Head of Department of Mining and Mineral Sciences Professor Leon John Thomas, BSc PhD *Birm.*, CEng, FIEAust, MAusIMM, MIMinE

Administrative Officer Peter Francis Hern, AASA

Professional Officer Boyd Parker Watson, BSc(Tech) N.S.W.

#### **Department of Mining and Mineral Sciences**

#### **Mechanical Engineering**

#### Lecturers

Llewellyn Ramsay Jones, BSc N.Z., DipAm MEng Sheff., PhD Wales, MIEAust, MIMechE

lan Lachlan Maclaine-cross, BE Melb., MIEAust, MAIRAH, MSES

Chakravarti Varadachar Madhusudana, BE Mys., ME B'lore, PhD Monash, MIEAust

#### **Professional Officer**

Kenneth James Murray, BSc Syd., MSc N.S.W., AMAusIMM

#### **Department of Science**

#### Chemistry

Associate Professor Keith George O'Brien, MSc Syd., PhD N.S.W., FRACI, AMAusIMM

Lecturer Derek Richard Smith, BSc PhD Wales

Senior Tutor Robert Edward Byrne, MSc N.S.W., ARACI, AMAusIMM

#### Mathematics

#### **Mining Engineering**

Lecturer Venkata Satyanarayana Vutukuri, BSc(Eng) Ban., MS Wis., MMGI, AIME, AMAusIMM Lecturers David Charles Guiney, BSc PhD Adel. Zdenek Kviz, Dip Phys Brno, CSc RerNatDr Charles, PhD Prague Dennis William Trenerry, BSc PhD Adel.

#### **Physics**

#### **Mineral Science**

Senior Lecturer Barenya Kumar Banerji, MSc Patna, PhD Leeds, MAusIMM

Lecturers Robert John Stening, MSc Syd., PhD Qld., MAIP Kenneth Reid Vost, BSc Glas., MSc N.S.W., AMAusIMM

#### Geology

Senior Lecturer Gerrit Neef, BSc Lond., PhD Well., FGS, AMAusIMM

#### Lecturers

Ian Rutherford Plimer, BSc N.S.W., PhD Macq., AMAusIMM, AMIMM Kevin David Tuckwell, BSc PhD N.S.W., AMAusIMM

Tutor Alaster Carlile Edwards, BSc Melb., GSA, AMAusIMM

## **Fowlers Gap Research Station**

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#### **Professores Emeriti**

Henry Ingham Ashworth, OBE, MA BA(Arch), FRIBA, FRAIA, Hon.FRAIC, FAIB, MRAPI Sir Philip Baxter, KBE, CMG, BSc PhD, Hon.DSc, FAA, FRACI, FIEAust, MIChemE Geoffrey Bosson, MSc

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Eugene Bryan Smyth, Hon.DSc, ASTC, FASA, FCAA, FCIS Frederick Edward Anthony Towndrow, FRIBA, FRAIA, FAPI James Matthew Vincent, DScAgr, DipBact, FAIAS John Fell Dalrymple Wood, BSc BE, FIEAust, MACE

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Godfrey Lionel Macauley, BEc 1950-1974

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#### Registrars

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Wallace Charles Wurth, CMG, LLB, Hon.LLD, FSTC 1949-1960 The Hon. Sir John Clancy, KBE, CMG, LLB, Hon.DLitt, Hon.LLD 1960-1970 Sir Robert Webster, CMG, CBE, MC, Hon.DSc, FASA 1970-1975

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#### Director

Arthur Denning, BSc DipEd, Hon.DSc, ASTC 1949-1952

#### Vice-Chancellor

Sir Philip Baxter, KBE, CMG, BSc PhD, Hon.DSc, FAA, FRACI, FIEAust, MIChemE 1953-1969

#### **Pro-Vice-Chancellors**

David Watkin Phillips, BSc PhD, DipMetMin, FGS, MIMinE, MAmerIME, MAusIMM 1955-1962 Rupert Horace Myers, CBE, MSc PhD, Hon.LLD, Hon.DSc, FIM, FRACI, FAIM, MAusIMM 1961-1969 John Faithfull Clark, BSc MA DipEd PhD 1962-1967

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Eric Alexander DICKSON 1958-1962 Lorimer Fenton DODS (Emeritus Professor Sir) 1962-1964 John Bartram DOUGLAS (Associate Professor) 1971-1975 Philip John DRUMMOND 1973-1975 Randolph Edward DUNBAR 1962-1971 Kevin ELLIS (The Hon. Sir) 1965-1975 Ian Thomas ERNST 1960-1965 Raymond James Wood Le FEVRE (Professor) 1947-1948 Francis Joseph FINNAN (The Hon.) MLA 1949-1953 Geoffrey Francis FISHBURN (Dr) 1971-1975 **Douglas Lyons FORD** 1965-1973 John Maxwell FREELAND (Professor) 1963-1965 **Robert Clarence GIBSON** 1955-1959 John Patrick GLASHEEN 1947-1954 William McCulloch GOLLAN (The Hon.) MLA 1953-1962 John Martin GREEN 1974-1976 Berthold HALPERN 1971-1973 Roy William HARMAN 1947-1953 Robert Carr HARRISON 1947-1953 Ronald Max HARTWELL (Professor) 1955-1956 Robert James HEFFRON (The Hon.) MLA 1947-1949 Jeremiah HIRSCHHORN 1962-1966 Richard Meredyth HUEY (Associate Professor) 1967-1971 Austin Adolphus HUKINS (Professor) 1971-1975 George Ian Dewart HUTCHESON (Captain) 1956-1965 Richard Richmond JEREMY (Dr) 1964-1969 Allan Robert JOHNSTON 1958-1967 John Patrick KENNEDY 1957-1959 James Denis KENNY (The Hon.) MLC 1960-1967 1947-1962 William George KETT 1949-1960 Robert Arthur KING (The Hon.) MLC James Norman KIRBY 1947-1955 William Rae LAURIE (Dr) 1949-1970 Milton Patrick McCARNEY 1968-1974 1973-1975 Neil Robert McDONALD (Dr) John Gordon McKENZIE 1947-1952 David Lyon McLARTY 1957-1962 James Kenneth MacDOUGALL 1948-1960 Reginald William John MACKAY 1960-1969 David John MAGNUSSON 1959-1961 James Joseph MALONEY (The Hon.) MLC 1949-1967 David Paver MELLOR (Emeritus Professor) 1963-1967 Jessica Ruth MILNER 1965-1971 Crawford Hugh MUNRO (Emeritus Professor) 1955-1959, 1961-1965 1950-1953 Robert Kenneth MURPHY Claude Edward Courtenay NICHOLLS 1963-1969 Harold James OLIVER (Professor) 1970-1971 1957-1961 Peter John O'NEILL Richard Godfrey Christian PARRY-OKEDEN (Dr) 1947-1969

David Watkin PHILLIPS (Professor) 1952-1959 Simon Jacques PROKHOVNIK 1966-1969 Edward Sydney QUAY 1971-1973 Bernhard John Frederick RALPH (Professor) 1959-1961. 1971-1975 Leo Richard RAWSON 1971-1974 Edward Oswald RAYNER (Dr) 1965-1969 Gerald Frederick RHOADES 1957-1963 Percy Dryden RIDDEL 1947-1950 Ronald Henry RIGBY 1969-1971 Stephen Henry ROBERTS (Emeritus Professor Sir) 1947-1969 William Milton ROBERTSON 1971-1973 Arthur Alfred ROBINSON 1953-1957 Albert Ernest ROGERS 1960-1965 Raymond Louis ROGERSON 1953-1955 Francis Felix RUNDLE (Emeritus Professor) 1963-1967 Eugene Bryan SMYTH (Emeritus Professor) 1957-1961, 1965-1969 Philip Albert SULLIVAN 1959-1960 Robert Henry SUTHERLAND 1957-1969 Gregory Bede THOMAS (His Hon. Judge) 1949-1970 John Basil THORNTON (Professor) 1957-1962, 1967-1969 Frans Willem TIMMERMAN 1973-1975 John Joseph TOOMEY 1961-1973 Frederick Edward TOWNDROW (Emeritus Professor) 1950-1955, 1961-1963 Alfred Jacobus van der POORTEN 1967-1973 Rex Eugene VOWELS (Professor) 1959-1968 Greig Richard WALLWORK (Associate Professor) 1973-1975 Robert John WALSH (Professor) 1969-1973 Geoffrey WARD 1953-1955 Robert WEBSTER (Sir) 1947-1975 Fred WILSON 1947-1953 John Fell Dairymple WOOD (Professor) 1950-1975 Wallace Charles WURTH 1947-1960 Harold Stanley WYNDHAM 1952-1968

# Acts Relating to the University

Prior to 1969 there were four Acts which together were cited as the Technical Education and University of New South Wales Act, 1949-1965. These four Acts were (i) the Technical Education and New South Wales University of Technology Act, 1949; (ii) the Technical Education and New South Wales University of Technology (Amendment) Act, 1955; (iii) the University of New South Wales Act, 1958; and (iv) the University of New South Wales Act, 1961.

The last two of these Acts, together with portions of the first two Acts mentioned were repealed by the University of New South Wales Act, 1968, which commenced on 1st January, 1969. The University of New South Wales Act, 1968, has been amended by the University of New South Wales (Amendment) Act, 1970. The incorporable amendments made by that Act have been included in the Act printed herein.

## **University of New South Wales Act, 1968**

An Act to consolidate, with amendments, the statutory provisions relating to The University of New South Wales; to make certain consequential amendments to certain Acts; and for purposes connected therewith. [Assented to, 22nd October, 1968.]

BE it enacted by the Queen's Most Excellent Majesty, by and with the advice and consent of the Legislative Council and Legislative Assembly of New South Wales in Parliament assembled, and by the authority of the same, as follows:

1. (1) This Act may be cited as the "University of New South Wales Act, 1968".

(2) This Act shall commence upon a day (in this Act referred to as the "appointed day") to be appointed by the Governor and notified by proclamation published in the Gazette.

2. (1) The Acts specified in the Schedule to this Act are, to the extent therein expressed, hereby repealed.

(2) The repeals effected by subsection one of this section and otherwise by this Act shall not

(a) prejudice or affect the continuity of the body corporate continued under the amendments made by the University of New South Wales Act, 1958, and that body corporate shall continue, subject to this Act, notwithstanding those repeals; or

(b) except to the extent that there would be an inconsistency with this Act, prejudice or affect

(i) any property of the University; or

(ii) any right, privilege or legal proceeding that, but for those repeals, might have been enforced, enjoyed, instituted or continued,

and, except to the extent of any such inconsistency, any such right, privilege or legal proceeding may be enforced, enjoyed, instituted or continued as if it had been conferred by, or had arisen under, this Act.

(3) A reference in any Act, by-law, regulation or other statutory instrument or in any certificate evidencing a degree or in any other instrument whatsoever to The New South Wales University of Technology shall be read as a reference to The University of New South Wales.

(4) A branch, department or college established by the University and being maintained by the University immediately before the appointed day may be maintained by the University as if this Act had been in force when it was so established.

Short title and commencement.

Repeals and savings.

	(5) All regulations and by-laws made under the Acts specified in the Schedule to this Act and in force immediately before the appointed day shall, so far as they could have been made under this Act had it been in force at the relevant time, be deemed to have been made under this Act and may be amended, repealed or replaced by regulations or, as the case may require, by by-laws, made under this Act.
	(6) Any delegation made by the Council under the Acts specified in the Schedule to this Act and in force immediately before the appointed day shall be deemed to be a delegation by the Council made under this Act.
Transitional provisions relating to Council.	3. (1) This section shall have effect notwithstanding any repeal effected by, or anything contained in, this Act and notwithstanding any repeal or amendment of the regulations or by-laws that takes effect after the appointed day.
	(2) Until the thirtieth day of June, one thousand nine hundred and sixty-nine
	(a) the Council shall continue to be constituted; and
	(b) the persons who, immediately before the appointed day, were members of the Council shall continue in office as such members,
	as if this Act had not been enacted and shall so continue to be constituted, or to hold office, subject to the regulations and by-laws made under the Acts specified in the Schedule to this Act and in force immediately before the appointed day.
	(3) On and from the first day of July, one thousand nine hundred and sixty-nine, the Council shall be constituted, and the members thereof shall hold office as such members, as is provided by and under this Act, subsections one and two of this section excepted.
	(4) A retiring member of the Council holding office under subsection two of this section shall not, by reason of that membership, be disqualified from again becoming a member of the Council.
	(5) Nothing in this section shall be construed as affecting the continuation in office on and after the first day of July, one thousand nine hundred and sixty-nine, of the members of the Council elected by the Houses of Parliament and holding office immediately before that day and they shall, subject to this Act, continue in office accordingly.
Definitions	4 In this Act unless the context or subject-matter otherwise indicates or requires
Act No. 11, 1949, s. 15.	"by-laws" means by-laws made under this Act:
	"Chancellor" means the Chancellor of the University;
	"Council" means the Council of the University;
	"Deputy Chancellor" means the Deputy Chancellor of the University;
	"prescribed" means prescribed by this Act or by the regulations or by the by-laws;
	"regulations" means regulations made under this Act;
	"the University" means The University of New South Wales;
	"Vice-Chancellor" means the Vice-Chancellor of the University.
The University of New South Wales. Act No. 11, 1949, s. 16, Act No. 24, 1958, s. 2 (a) and Act No. 49, 1961, s. 2 (1) (a).	5. (1) The University of New South Wales is the body corporate continued by this Act and shall consist of the Council, the professors, such other classes of persons giving instruction within the University as may be prescribed by the by-laws, such superior officers within the University as may be so prescribed and the graduates and under-graduates of the University.
	(2) The University shall have perpetual succession and a common seal, and shall by its corporate name of "The University of New South Wales" be capable of suing and of being sued, and of doing and suffering all such other acts and things as bodies corporate may by law do and suffer.
	(3) The University shall, subject to this Act and the regulations, have power to take, purchase, hold, grant, alienate, demise, or otherwise dispose of real and personal

property: Provided that the University shall not, except with the approval of the Governor, grant, alienate, mortgage, charge or demise any real property except by way of lease for any term not exceeding twenty-one years from the time when the lease is made, in and by which there is reserved during the whole of the term, the highest rent that can reasonably be obtained without fine.

6. (1) The common seal of the University shall be kept in such custody as the Council directs, and shall not be used except upon resolution of the Council.

(2) All courts, judges and persons acting judicially shall take judicial notice of the common seal of the University affixed to any document, and shall presume that it was duly affixed.

7. The objects of the University shall include

(a) the provision of facilities for higher specialised instruction and advanced training in the various branches of technology and science in their application to industry and commerce:

(b) aiding, by research and other suitable means, the advancement, development, and practical application of science to industry and commerce; and

(c) the provision of instruction and the carrying out of research in the disciplines of humane studies and medicine and in such other disciplines as the Council may from time to time determine.

8. (1) The governing authority of the University shall be the Council and the Council shall have and may exercise and discharge the powers, authorities, duties and functions conferred and imposed upon it by or under this Act.

- (2) Subject to section three of this Act, the Council shall consist of
- (a) parliamentary members:
- (b) official members:
- (c) elected members, being
- (i) elected non-student members: and
- (ii) elected student members; and
- (d) nominated members.

(3) The parliamentary members of the Council shall be

(a) a member of the Legislative Council elected by that Council as soon as practicable after the commencement of the term of service of the members of that Council elected at each election held as required by subsection five of section 17F of the Constitution Act, 1902; and

(b) a member of the Legislative Assembly elected by that Assembly as soon as practicable after each general election of members of that Assembly.

(4) The official members of the Council shall be

(a) the person for the time being holding the office of Chancellor, where he is not otherwise a member of the Council:

(b) the person for the time being holding the office of Vice-Chancellor; and

(c) the person for the time being holding the office of Chairman of the Professorial Board of the University.

(5) The elected non-student members of the Council shall be qualified and elected as in Amended. each case or for each class may be prescribed by this subsection and the by-laws and shall comprise

(a) ..... (b) seven persons so elected by the graduates of the University;

(c) one person so elected by the professors and such other persons, being persons giving instruction within the University and superior officers within the University, as may be prescribed by the by-laws; and

Common seai. Act No. 11, 1949, s. 17.

**Objects of the University.** Act No. 11, 1949, s. 18.

The Council. Act No. 11, 1949, s. 19.

Substituted paragraph. Act No. 75, 1970, s. 3 (1) (a).

Amended. Act No. 75, 1970. s. 2 (1) (a) (i).

Amended. Act No. 75, 1970. s. 2 (1) (a) (ii).

ibid., s. 3 (1) (b).

ibid., s. 3 (1) (c).

New proviso added,

Act No. 75, 1970,

s. 2 (1) (a) (iii).

Substituted paragraph, (d) six persons, of whom one has been so elected by each of such six of the faculties and boards of studies as the Council has, not less than one month before the closing of nominations for the election of those persons, specified for the purposes of this paragraph:

Provided that a person who is a full-time member of the staff of the University shall be ineligible to be elected as a member of the Council under paragraph (b) of this subsection.

New paragraph added, The by-laws may make provision for or with respect to determining whether or not a person is a full-time member of the staff of the University for the purposes of this subsection.

For the purposes of this subsection "graduate" means a person whose name appears on the list, prepared in accordance with the by-laws, of graduate electors.

New subsection added,<br/>Act No. 75, 1970,<br/>s. 3 (1) (e).(5A) The elected student members of the Council shall comprise three persons, each<br/>qualified and elected as prescribed by the by-laws:

Provided that

(a) a person who is not a student of the University shall be ineligible to be elected as a member of the Council under this subsection; and

(b) a person who is a full-time member of the staff of the University shall be ineligible to be elected as a member of the Council under this subsection.

For the purposes of this subsection "student" means a person who is enrolled as a candidate proceeding to a degree or diploma of the University.

The by-laws may make provision for or with respect to determining whether or not a person is a full-time member of the staff of the University for the purposes of this subsection.

(6) The nominated members of the Council shall be appointed by the Governor and, subject to subsection seven of this section, shall comprise

Amended, Act No. 75, 1970, s. 2 (1) (a) (iv). (a) five persons nominated in accordance with that subsection as being persons who are practising, or who have practised, in the professions;

(b) five persons nominated in accordance with that subsection as being persons experienced in industry or commerce;

(c) three persons nominated in accordance with that subsection as being persons associated with trade unions or other organisations of employees;

(d) two persons nominated in accordance with that subsection as being experienced in agricultural, pastoral or other rural affairs; and

Amended, ibid., s. 2 (1) (a) (v). (e) six persons nominated by the Minister.

(7) For the purposes of paragraphs (a), (b), (c) and (d) of subsection six of this section

(a) nominations may be submitted to the Minister in accordance with regulations prescribing, in relation to each such paragraph

(i) the person or persons, or the class or classes of persons, who may submit nominations;

(ii) the number of nominations that may be submitted by each such person or class of persons; and

(iii) the time within which nominations may be so submitted; or

(b) where, in respect of any such paragraph, a prescribed person or class of persons has failed to comply with the regulations relating to nominations, the Minister may, unless he is satisfied that sufficient nominations have otherwise been received, make such nominations as he thinks fit in order to complete the prescribed number thereof and any nomination so made by the Minister shall be deemed to be a valid nomination for the purposes of that paragraph.

The regulations may provide in respect of any such paragraph for the nomination of a number of persons in excess of the number to be appointed.

(8) Subject to this Act, a member of the Council shall hold office

(a) in the case of a parliamentary member, until a member of the House of Parliament that elected him is elected by that House to replace him;

(b) in the case of an official member, while he holds the office by virtue of which he is such a member; and

(c) in the case of an elected or nominated member, for such period not exceeding four years as may be prescribed by the by-laws.

A period of office may be prescribed by the by-laws by reference to determined, or determinable, days of commencement and termination.

The by-laws may prescribe different periods of office in respect of different classes of members.

(9) A retiring member of the Council shall not, by reason of that membership, be disqualified from again becoming a member of the Council.

(10) A casual vacancy in the office of an elected or nominated member shall be filled

(a) in the case of an elected member, as prescribed by the by-laws; or

(b) in the case of a nominated member

(i) by a person appointed by the Governor for the purpose, being a person who could have been appointed to fill the vacancy had it not been a casual vacancy; or

(ii) where the regulations prescribe the manner of filling such a vacancy, as so prescribed,

and any member filling a casual vacancy under this subsection shall hold office for the residue of the term of office of his predecessor.

(11) The provisions of the Public Service Act, 1902, as subsequently amended, shall not apply to or in respect of the appointment by the Governor of any member of the Council, and any member so appointed shall not, in his capacity as such member, be subject to the provisions of that Act, as so amended, during his term of office.

9. A member of the Council shall be deemed to have vacated his office if he

(a) dies;

(b) resigns his office by writing under his hand addressed

(i) in the case of a parliamentary member who is a member of the Legislative Council, to the President of the Legislative Council;

(ii) in the case of a parliamentary member who is a member of the Legislative Assembly, to the Speaker of the Legislative Assembly;

(iii) in the case of an elected member, to the Vice-Chancellor; or

(iv) in the case of a nominated member, to the Minister;

(c) becomes bankrupt, compounds with his creditors or makes any assignment of his salary or estate for their benefit;

(d) becomes a mentally ill person, a protected person or an incapable person within the meaning of the Mental Health Act, 1958, as subsequently amended;

(e) is an elected or appointed member and absents himself from four consecutive meetings of the Council without leave of the Council;

(*t*) in the case of a parliamentary member elected by the Legislative Council, ceases to be a member of that Council; or

(g) in the case of a parliamentary member elected by the Legislative Assembly

(i) ceases to be a member of that Assembly otherwise than by reason of its dissolution or its expiration by effluxion of time; or

(ii) ceases to be a member of that Assembly by reason of its dissolution or its expiration by effluxion of time and is not re-elected as a member of that Assembly at the next general election of members of that Assembly. Amended, Act No. 75, 1970, s. 2 (1) (a) (vi). Amended, ibid., s. 2 (1) (a) (vii).

New paragraph added, ibid., s. 2 (1) (a) (viii).

Amended, s. 2 (1) (a) (ix) (x).

Vacation of office. Act No. 11, 1949, s. 20.

Amended, Act No. 75, 1970, s. 2 (1) (b) (i). Substituted paragraph, ibld., s. 2 (1) (b) (ii).

New paragraph added, ibid.

Chancellor and Deputy Chancellor. Act No. 11, 1949, s. 21.	<b>10.</b> (1) The persons who, immediately before the appointed day, held office as Chancellor and Deputy Chancellor of the University shall, on and from that day, be respectively the Chancellor and Deputy Chancellor and shall hold that office upon the terms and conditions upon which, and for the residue of the period for which, they would respectively have held office had this Act not been enacted, but shall be eligible for re-election.
	(2) Where a vacancy occurs in the office of Chancellor or Deputy Chancellor, the Council shall elect a Chancellor or, as the case may require, Deputy Chancellor who may, in the case of the Chancellor, and shall, in the case of the Deputy Chancellor, be one of its members.
	(3) The Chancellor and Deputy Chancellor shall, subject to subsection one of this section, hold office for such period and on such terms and conditions as may be prescribed by the by-laws.
Chairman. Act No. 11, 1949, <del>s</del> . 22.	<b>11.</b> At every meeting of the Council the Chancellor or, in his absence, the Deputy Chancellor, shall preside as Chairman, but if the Chancellor and Deputy Chancellor are both absent, the members present shall elect a person from amongst their number to preside as Chairman.
Questions—how decided. Act No. 11, 1949, s. 23.	12. (1) All questions which come before the Council shall be decided by a majority of votes of the members present at a duly convened meeting of the Council at which a quorum is present.
	(2) The Chairman at any such meeting shall have a vote, and in the case of an equality of votes a second or casting vote.
	(3) At any meeting of the Council ten members shall form a quorum.
Validity of acts and proceedings. Act No. 11, 1949, s. 24.	<b>13.</b> (1) No act or proceeding of the Council or any committee of the Council, or of the Vice-Chancellor or any person acting pursuant to any direction of the Council shall be invalidated or prejudiced by reason only of the fact that at the time when such act or proceeding was done, taken or commenced, or such direction given there was a vacancy or vacancies in the office of any member of the Council.
	(2) All acts and proceedings of the Council or any committee of the Council, or of the Vice-Chancellor or any person acting pursuant to any direction of the Council shall, notwithstanding the subsequent discovery of any defect in the appointment or election of any member of the Council, or that any such member was disqualified from acting as, or incapable of being a member of the Council, be as valid as if such member had been duly appointed or elected and was qualified to act as or capable of being a member and had acted as a member of the Council and as if the Council had been properly and fully constituted.
Powers of the Council. Act No. 11, 1949, s. 25.	14. Subject to this Act and to the regulations and by-laws, the Council
	(a) may provide courses in applied science, engineering, technology, commerce, industrial organisation, humane studies and medicine and such other courses as it deems fit and may, after examination, confer the several degrees of Bachelor, Master and Doctor, and such other degrees and such certificates in the nature of degrees or otherwise and such diplomas as it thinks fit;
	(b) may from time to time appoint and terminate the appointment of deans, professors, lecturers and other officers and employees of the University;
	(c) shall have the entire control and management of the affairs, concerns and property of the University;
	(d) may invest any funds belonging to or vested in the University in such securities as may be prescribed by the by-laws; and
	(e) may act in all matters concerning the University in such manner as appears to it best calculated to promote the objects and interests of the University.

15. (1) The Vice-Chancellor shall be the chief executive officer of the University.

(2) The person who, immediately before the appointed day, held office as Vice-Chancellor of the University shall, on and from that day, be the Vice-Chancellor and shall hold that office upon the terms and conditions upon which, and for the residue of the period for which, he would have held that office had this Act not been enacted.

(3) The Vice-Chancellor shall have and may exercise and discharge such powers, authorities, duties and functions as may be prescribed by the by-laws and subject thereto as the Council may determine.

(4) The Vice-Chancellor shall, subject to subsection two of this section, hold office for such period and upon such terms and conditions as the Council determines.

(5) Where a vacancy occurs in the office of Vice-Chancellor the Council shall appoint a person to be Vice-Chancellor.

**16.** (1) The Council may constitute and appoint such committees as it thinks fit and may delegate all or any of its powers, authorities, duties and functions (except this power of delegation and the power to make by-laws) to any such committee or to any member of the Council, or to any officer or officers of the University.

(2) Every delegation under this section shall be revocable by resolution of the Council and no delegation shall prevent the exercise or discharge by the Council of any of its powers, authorities, duties or functions.

**17.** (1) Where any person has obtained in any university or other educational establishment recognised by the University for the purpose any degree or diploma corresponding or equivalent, in the opinion of the Council, to any degree which the Council is empowered to confer after examination, or has such other qualifications as, in the opinion of the Council, are sufficient for the purpose, the Council may confer such latter degree upon such person without examination.

(2) A person upon whom a degree is conferred, under the provisions of subsection one of this section shall be entitled to the same rights and privileges as appertain to persons who have taken the same degree in the ordinary course in the University.

(3) By-laws may be made for or with respect to the conferring of honorary degrees or other distinctions.

**18.** (1) The Council may establish and maintain such branches, departments or colleges of the University as the Council deems fit and the Governor may approve.

(2) The Council may, with the approval of the Governor

(a) authorise the establishment of residential colleges or halls of residence within the University or elsewhere;

(b) authorise the affiliation with the University of residential colleges; or

(c) join or co-operate with any person in the provision or conduct of student hostels and residential accommodation for students.

(3) The Council may authorise any college or educational establishment, whether incorporated or not, to issue to a candidate for any degree or diploma conferred by the University a certificate to the effect that the candidate has completed such course of instruction therefor as the Council by by-law prescribes and any person who presents to the Council any such certificate may be admitted as a candidate for the degree or diploma to which it refers.

**19.** All degrees conferred by the University shall be evidenced by a certificate under the common seal of the University.

**20.** The Council may by by-law make provision for the payment by students of the University of fees for entrance to the University, attendance at lectures, conferring of degrees and other charges, except in the case of any student who is granted any fellow-ship, scholarship, exhibition, bursary or similar benefit, to the extent to which he is thereby exempted from payment of fees.

Vice-Chancellor. Act No. 11, 1949, s. 26.

Delegation to committees, etc. Act No. 11, 1949, s. 27.

Ad eundem and honorary degrees. Act No. 11, 1949, s. 28.

Branches, departments and colleges. Act No. 11, 1949, s. 29.

Evidence of degrees conferred. Act No. 11, 1949, s. 30.

Fees. Act No. 11, 1949, s. 31. Investigations. 21. (1) The Council may carry out special investigations in any matter at the request of any authority, institution, association, firm or person, and in respect of any such investigation may charge such fees therefor and agree to such conditions in relation thereto as it thinks fit.

(2) The Council may, subject to any conditions imposed under subsection one of this section, publish information relating to any matter investigated by it pursuant to the provisions of that subsection.

**By-laws. 22.** (1) The Council may make by-laws, not inconsistent with this Act or the regulations, with respect to all matters pertaining to the University.

(2) Without prejudice to the generality of subsection one of this section the Council may make by-laws with respect to

(a) the management, good government, and discipline of the University;

(b) the method of election of members of the Council (other than the parliamentary members) who are to be elected;

(c) the manner and time of convening, holding and adjourning the meetings of the Council; the manner of voting at such meetings, including postal voting or voting by proxy; the powers and duties of the Chairman thereof; the conduct and record of the business; the appointment of committees of the Council, and the quorum, powers and duties of such committees;

(d) the number, stipend, manner of appointment and dismissal of deans, professors, lecturers, examiners and other officers and employees of the University;

(e) the entrance standards for students;

(f) the examinations for and the granting of degrees, diplomas, certificates and honours and the attendance of candidates therefor;

(g) the examinations for and the granting of fellowships, scholarships, exhibitions, bursaries and prizes;

(*h*) the admission of students of other universities and institutions of higher education to any status within the University or the granting to graduates of such universities or institutions, or other persons, of a degree or diploma without examination;

(*i*) the establishment of residential colleges and halls of residence within the University and their conduct or the affiliation of residential colleges;

(*j*) the affiliation with or admission to the University of any educational or research establishment;

(k) the provision of a scheme of superannuation for the professors of the University.

(3) The by-laws may provide for empowering any authority (including the Council) or officer of the University to make regulations, rules or orders (not inconsistent with this Act or with any by-law) for regulating, or providing for the regulation of, any specified matter (being a matter with respect to which by-laws may be made) or for carrying out or giving effect to the by-laws, and any such regulation, rule or order shall have the same force and effect as a by-law.

(4) Every by-law made by the Council shall be sealed with the common seal of the University, shall be submitted for the consideration and approval of the Governor, and when so approved shall

(a) be published in the Gazette; and

(b) take effect from the date of publication or from a later date specified in the by-law.

(5) A copy of every such by-law shall be laid before both Houses of Parliament within fourteen sitting days after the publication thereof in the Gazette if Parliament is in session, and if not, then within fourteen sitting days after the commencement of the next session.

(6) Any such by-law may be proved in any court by the production of a verified copy under the seal of the University or by the production of a document purporting to be a copy of such by-law and to be printed by the Government Printer.
23. (1) There shall be paid by the Treasurer to the University in respect of the year commencing upon the first day of January in the year in which this Act commences, and in respect of each succeeding year, such sum as the Treasurer may determine having regard to the University's estimated expenditure requirements and income from all sources which is capable of being applied towards meeting such expenditure requirements and, in the case of the year in which this Act commences, any moneys paid by the Treasurer to the University, in that year, before the appointed day.

(2) To enable the Treasurer to exercise and perform the powers and functions conferred on him by subsection one of this section, the University shall, either before or as soon as practicable after the first day of January in each year, submit to the Treasurer estimates of the expenditure and income of the University for such year and such other information as the Treasurer may deem necessary.

(3) Any moneys payable by the Treasurer under this section shall be paid out of moneys provided by Parliament.

24. The Treasurer may for the temporary accommodation of the University advance such moneys to the University as the Governor may approve upon such terms and conditions as to repayment and interest as may be agreed upon between the Treasurer and the University.

#### 25. The University may borrow money for

(a) the purpose of carrying out its objects or exercising or performing any of its powers, authorities, duties and functions;

(b) the renewal of loans; or

(c) the discharge or partial discharge of any indebtedness to the Treasurer or to any bank,

within such limits, to such extent and upon such conditions as to security or otherwise as the Governor upon the recommendation of the Treasurer may approve.

**26.** The Council shall cause to be kept proper books of account in relation to the funds of the University and shall, as soon as practicable after the thirty-first day of December in each year, prepare and transmit to the Minister for presentation to Parliament a statement of accounts in a form approved by the Auditor-General exhibiting a true and correct view of the financial position and transactions of the University.

**27.** The accounts of the University shall be audited by the Auditor-General, who shall have, in respect thereof, all the powers conferred on the Auditor-General by any law now or hereafter in force relating to the audit of public accounts, and the Audit Act, 1902, as subsequently amended, shall apply to the members of the Council and to the officers and employees of the University in the same manner as it applies to accounting officers of public departments.

**28.** No religious test shall be administered to any person in order to entitle him to be admitted as a student of the University, or to hold office therein, or to graduate thereat, or to enjoy any benefit, advantage or privilege thereof.

**29.** (1) The University shall have power to acquire by gift, bequest or devise any property for the purposes of this Act, and to agree to and carry out the conditions of any such gift, bequest or devise.

(2) The rule of law relating to perpetuities shall not apply to any condition of a gift, bequest or devise to which the University has agreed.

**30.** In the exercise of its powers, authorities, duties and functions under this Act the Council shall, so far as is practicable, co-operate with other institutions devoted to advanced studies and research.

**31.** (1) As soon as practicable after the thirty-first day of December in each year, the Council shall prepare and furnish to the Minister a report upon the proceedings of the University during the period of twelve months immediately preceding that day. Such report shall include a summary of the work, researches and investigations carried out by the University during such period.

Treasurer to meet certain costs. Act No. 11, 1949, s. 39.

Advances by Treasurer. Act No. 11, 1949, s. 40.

Power of University to borrow. Act No. 11, 1949, s. 41.

Accounts to be rendered. Act No. 11, 1949, s. 42.

Audit. Act No. 11, 1949, s. 43.

No religious test. Act No. 11, 1949, s. 44.

Power to accept gifts, etc. Act No. 11, 1949, s. 45.

Council to co-operate with other bodies. Act No. 11, 1949, s. 46.

Report of proceedings. Act No. 11, 1949, s. 47. (2) A copy of such report shall be laid before both Houses of Parliament as soon as practicable after it has been received by the Minister.

Regulations.
 Act No. 11, 1949, s. 48.
 32. (1) The Governor may make regulations not inconsistent with this Act prescribing all matters which by this Act are required or permitted to be prescribed by regulation or which are necessary or convenient to be prescribed by regulation and generally for carrying out or giving effect to the objects of the University and to this Act.

- (2) The regulations shall
- (a) be published in the Gazette;

(b) take effect from the date of publication or from a later date to be specified therein; and

(c) be laid before both Houses of Parliament within fourteen sitting days after the publication thereof if Parliament is in session, and if not, then within fourteen sitting days after the commencement of the next session.

If either House of Parliament passes a resolution of which notice has been given at any time within fifteen sitting days after such regulations have been laid before such House disallowing any regulation or part thereof, such regulation or part shall thereupon cease to have effect.

#### Amendment of Act No. 28, 33. (1) The Superannuation Act, 1916, as subsequently amended, is amended

(a) (i) by inserting in the definition of "Employee" in subsection one of section three after the words "University of Newcastle," the words "or, subject to subsection four of this section, a professor of The University of New South Wales,";

(ii) by inserting next after subsection three of the same section the following new subsection:

(4) (a) Subject to this subsection, the exclusion from the definition of "Employee" of a professor of The University of New South Wales shall not extend to a person whose rights as a contributor are continued by section two of the University of New South Wales Act, 1968.

(b) A professor of The University of New South Wales shall cease to be a contributor if, after the commencement of the University of New South Wales Act, 1968, he becomes or continues to be a party to any scheme or arrangement to which that University is also a party and under which he is or may become entitled to any pension or annuity or retiring allowance upon retirement from his professorship.

(c) The provisions of subsection three of this section shall apply, mutatis mutandis, to professors of The University of New South Wales other than those who are employees by virtue of paragraph (a) of this subsection.

Schedule III. (b) by omitting from Schedule III the words "The New South Wales University of Technology" and by inserting in lieu thereof the words "The University of New South Wales".

(2) The Superannuation Act, 1916, as subsequently amended and as amended by this Act, may be cited as the Superannuation Act, 1916-1968.

Amendment of Act No. 11, 1949. 1949, as subsequently amended, is amended

Long title.

1916.

Sec. 3.

(Interpretation.)

1949, as subsequently amended, is amended

 (a) by omitting from the long title the words "to provide for the establishment and incorporation of a New South Wales University of Technology;";

Sec. 1. (b) (i) by omitting from subsection one of section one the words "and New South Wales University of Technology";
Parts.) (ii) by omitting from subsection two of the same section the matter relating to Part III;

(Short title and division into Parts.)

Sec. 9. (Functions and duties of Council.) (c) by omitting paragraph (b) of subsection one of section nine and by inserting in lieu thereof the following paragraph:

(b) the co-ordination of the functions of the Department of Technical Education with those of the Department of Education, the University of Sydney, The University of New South Wales and other bodies concerned with education.

(2) The Technical Education and New South Wales University of Technology Act, 1949, as subsequently amended and as amended by this Act, may be cited as the Technical Education Act, 1949-1968.

35. The University of Newcastle Act, 1964, is amended by omitting section thirty-nine.

Amendment of Act No. 72, 1964. Sec. 39. (Amendment of Act No. 11, 1949.)

Sec. 3.

Schedule			
Reference to Act	Short Title	Extent of Repeal	
No. 11, 1949	Technical Education and New South Wales University of Technology Act, 1949.	Sections fourteen to forty- eight, both inclusive. Sub- section two of section forty- nine.	
No. 8, 1955	Technical Education and New South Wales University of Technology (Amendment) Act, 1955.	Sections three and four.	
No. 24, 1958	University of New South Wales Act, 1958.	The whole.	
No. 49, 1961	University of New South Wales Act, 1961.	The whole.	

# Regulations

Interpretation	1. The Regulations made under Part III of the Technical Education and University of
	New South Wales Act, 1949, as subsequently amended, are hereby repealed.

2. In these Regulations

"The Act" means the University of New South Wales Act, 1968;

"the Schedule" means the Schedule to Regulation 3 of these Regulations.

Submission to Minister of Panels of Names Relating to the Appointment of Certain Members of the Council of the University 3. (1) The organizations named in the Schedule may, subject to this Regulation, submit nominations to the Minister for the purposes of paragraphs (a), (b), (c) and (d) of subsection six of section eight of the Act.

(2) The maximum number of nominations that may be submitted by an organization is the number set opposite the name of that organization in the Schedule.

(3) Nominations may be submitted

(a) for the purposes of paragraph (a) of subsection six of section eight of the Act—only by the organizations named in Part A of the Schedule;

(b) for the purposes of paragraph (b) of that subsection—only by the organizations named in Part B of that Schedule;

(c) for the purposes of paragraph (c) of that subsection—only by the organizations named in Part C of the Schedule; and

(d) for the purposes of paragraph (d) of that subsection—only by the organizations named in Part D of the Schedule.

(4) Nominations shall, in respect of the first appointment of members to the Council of the University in pursuance of the Act, be submitted to the Minister not later than the fourteenth day of May, one thousand nine hundred and sixty-nine, and in respect of any subsequent appointment of members of that Council, be submitted to the Minister not later than the fourteenth day of May in the year in which the appointment is to be made.

## Regulations

Organization	No. of Nominations	Schedule
The Institution of Engineers, Australia, Sydney Division	3	Part A
The Royal Australian Chemical Institute (NSW Branch)	3	Persons who are Practising
The Australian Optometrical Association (Division of New South Wales)	3	or have Practised in the
The Royal Australian Institute of Architects, NSW Chapter	3	Professions
The Institution of Production Engineers (Sydney Section)	3	
The Australian Institute of Physics (NSW Branch)	3	
The Australasian Institute of Mining and Metallurgy Incorporated	3	
The Royal Australasian College of Physicians	3	
The Royal Australasian College of Surgeons	3	
The Australian College of General Practitioners (New South Wales		
Faculty)	3	
The Law Society of New South Wales	3	
The New South Wales Bar Association	3	
The Chamber of Manufactures of New South Wales	3	Part B
The Sydney Chamber of Commerce	3	Persons experienced in
The Metal Trades Employers' Association	3	Industry or Commerce
The Employers' Federation of New South Wales	3	
The Building Industry Suppliers' Association of New South Wales		
Limited	3	
The Australian Institute of Management (Sydney Division)	3	
The Labor Council of New South Wales	3	Part C
The University of New South Wales Staff Association	3	Persons associated with
The Public Service Association of New South Wales	3	Trade Unions or Employee Organizations
The Primary Producers' Union	2	Part D
The Graziers' Association of New South Wales	2	Persons experienced in
The United Farmers and Woolgrowers' Association of New South Wales	2	Agricultural, Pastoral or other Rural Affairs

# **By-laws**

Chapter I --- The 1. (a) The Chancellor shall hold office for a period commencing from his election and terminating at the close of the ordinary meeting of the Council next preceding the **Chancellor and Deputy** Chancellor expiration of two years from the date of his election. (b) The Deputy Chancellor shall hold office for a period commencing from his election and terminating at the close of the ordinary meeting of the Council next preceding the expiration of two years from the date of his election. (c) Any retiring Chancellor or Deputy Chancellor shall be eligible for re-election. 2. (a) The Chancellor and Deputy Chancellor shall, by virtue of their office, be members of any Committee constituted by any By-law or by any resolution of the Council and of any Board or Faculty within the University. (b) The Chancellor may preside at any meeting of any such Committee, Board or Faculty and shall have all the rights and powers of the Chairman of any such Committee, Board or Faculty. (c) If the Chancellor is absent or does not desire or is unable to act, or if the office of Chancellor is vacant, the Deputy Chancellor may preside at any such meeting and shall have the like rights and powers. (d) In the absence of the Chancellor, or if the office of Chancellor is vacant, any powers or duties conferred or imposed upon the Chancellor by these By-laws may be exercised and discharged by the Deputy Chancellor. (e) This By-law shall have effect notwithstanding the provisions of any other By-law. Chapter II --- The 1. The Council shall ordinarily meet on the second Monday of March, May, July, Council September and November in each year, and on such other days as may be necessary for the despatch of business, provided that, if any Monday so specified is a public holiday, Meetings and Rules of the meeting shall be held on the following Monday. Procedure 2. The Chancellor or, in his absence, the Deputy Chancellor or, in the absence of both, the Vice-Chancellor may call a special meeting of the Council to meet at any time in the interval between ordinary meetings.

3. Upon the written request of any five members of the Council, the Chancellor, Deputy Chancellor or Vice-Chancellor or, in their absence, the Registrar shall convene a special meeting of the Council to be held within fourteen days after the receipt of the request.

The written request shall specify the matters which the five members wish the Council to consider.

4. Any meeting of the Council may be adjourned to a later date.

5. The Secretary to the Council shall transmit by post or deliver to each member of the Council a written or printed Notice of Meeting specifying the date of the next ensuing meeting of the Council, whether such meeting is an ordinary or special meeting, and such Notice of Meeting shall, so far as practicable, be posted or delivered seven clear days prior to the date of the meeting. All matters to be considered at any meeting shall be stated in the said Notice of Meeting or in a supplementary Notice of Meeting which shall be transmitted by post or delivered to each member of the Council, so far as practicable, three clear days before the meeting. Where practicable, the said Notice of Meeting shall be accompanied by supporting statements in sufficient detail to allow members the opportunity to consider the matters prior to the meeting.

6. (a) At ordinary meetings, unless otherwise decided by the Council, no motion initiating any subject for discussion shall be made except in pursuance of a Notice of Motion given to the Secretary to the Council ten clear days before the meeting of the Council at which the motion is to be moved. The Secretary to the Council shall enter all such Notices of Motion in the Notice of Motion book in the order in which they are received by him.

(b) At special meetings, unless otherwise decided by the Council, no motion shall be made on any matters other than those listed in the Notice of Meeting or supplementary Notice of Meeting.

7. If a quorum of the Council is not present within half an hour after the time appointed for any meeting, the members then present may appoint a convenient future day as the day on which the meeting shall be held. The day appointed may be the day of the next ordinary meeting of the Council but in any case shall be such as to enable the Secretary to the Council to give all members seven clear days' notice of the meeting, in the usual way. Where the day appointed is the day of the next ordinary meeting of the Council, the business which was to have been dealt with at the meeting lacking a quorum shall take precedence over the business of the ordinary meeting of the Council.

8. The minutes of any meeting of the Council which have not been approved as being a true record shall be circulated to members prior to the next ordinary meeting of the Council. Upon being approved as correct, such minutes shall be signed by the Chairman as being a true record.

9. All elections referred to in this chapter shall be conducted by the Registrar, who shall be the Returning Officer. Subject to the Act, to the provisions of these by-laws and to any relevant resolution of the Council, all elections shall be effected in such manner as the Registrar shall determine.

10. The election of members of the Council pursuant to paragraph (d) of subsection (5) of section 8 of the Act shall be conducted in accordance with by-laws 11 to 16 of this chapter.

11. (a) The election of a member by the members of each of such six of the faculties and boards of studies as are specified by the Council pursuant to paragraph (d) of subsection (5) of section 8 of the Act shall be held on such day in May, 1971 and on such day in that month in every alternate year thereafter as the Council may from time to time appoint. The term of office of such elected members shall be two calendar years commencing on the first day of July immediately following their election.

(b) Forty clear days' notice of the day appointed for each election shall be given by notices posted at the University and in such other places as the Council may determine.

12. The Registrar shall, in respect of each faculty and board of studies so specified, prepare a list of voters, comprising all persons who are members of the faculty or board of studies, completed to the last day for receiving nominations for the election, and a copy of each list so prepared shall be available for inspection at the University during the period from that day to the day appointed for the election.

Returning Officer for Elections

Members Elected by the Faculties and Boards of Studies 13. (a) No person shall be a candidate at an election by a faculty or board of studies so specified unless he is a member of that factulty or board of studies and his name has been communicated to the Registrar in writing under the hands of two persons who are members of that faculty or board of studies twenty-eight clear days before the day appointed for the election.

(b) Every nomination of a person for election shall contain the written consent of such person to his nomination and shall specify the faculty or board of studies to which the nomination relates.

14. On the expiration of the time for receiving nominations, the Registrar shall cause the name of each person so nominated and the fact of his candidature to be posted as soon as practicable at the University.

15. Where only one candidate is nominated in respect of a faculty or board of studies so specified the Registrar shall declare the candidate duly elected. Where two or more candidates are nominated in respect of a faculty or board of studies so specified, the election for that faculty or board of studies shall be by postal ballot.

16. The ballot shall be conducted in the manner prescribed in by-laws 45 and 46 of this chapter.

Member Elected by Professors, Persons Giving Instruction within the University and Superior Officers within the University 17. The election of a member of the Council pursuant to paragraph (c) of subsection (5) of section 8 of the Act shall be conducted in accordance with by-laws 18 to 23 of this chapter.

18. (a) For the purposes of paragraph (c) of subsection (5) of section 8 of the Act

(i) the prescribed persons being persons giving instruction within the University shall be, in addition to the professors, those members of each class of persons prescribed under paragraph (a) of by-law 2 of Chapter IX of these by-laws, together with the members of the following classes of persons giving instruction within the University—the tutors, the demonstrators and the tutor-demonstrators;

(ii) the prescribed persons being superior officers within the University shall be those prescribed under paragraph (b) of by-law 2 of Chapter IX of these by-laws.

(b) The election shall be held on such day in May 1971 and on such day in that month in every alternate year thereafter as the Council may from time to time appoint. The term of office of such an elected member shall be two calendar years commencing on the first day of July immediately following his election.

(c) Forty clear days' notice of the day appointed for the election shall be given by notices posted at the University and in such other places as the Council may determine.

19. The Registrar shall prepare a list of voters comprising all persons eligible to vote as provided under by-law 18 of this chapter, completed to the last day for receiving nominations for the election, and a copy of such list shall be available for inspection at the University during the period from that day to the day appointed for the election.

20. (a) No person shall be eligible for election unless he is one of the persons referred to in by-law 18 of this chapter and his name has been communicated to the Registrar in writing under the hands of two qualified voters twenty-eight clear days before the day appointed for the election.

(b) Every nomination of a person for election shall contain the written consent of such person to his nomination.

21. On the expiration of the time for receiving nominations, the Registrar shall cause the name of each person so nominated and the fact of his candidature to be posted as soon as practicable at the University.

22. Where only one candidate is nominated the Registrar shall declare the candidate duly elected. Where two or more candidates are nominated, the election shall be by postal ballot.

23. The ballot shall be conducted in the manner prescribed in by-laws 45 and 46 of this chapter.

24. The election of members of the Council pursuant to paragraph (b) of subsection (5) of section 8 of the Act shall be conducted in accordance with by-laws 25 to 31 of this chapter.

25. (a) The election shall be held on such day in June 1971 and on such day in that month in every alternate year thereafter as the Council may from time to time appoint. The term of office of such elected members shall be two calendar years commencing on the first day of July immediately following their election.

(b) Seventy clear days' notice of the day appointed for the election shall be given by advertisement in two or more of the daily newspapers published in Sydney, and by notices posted at the University and in such other places as the Council may determine.

26. The Registrar shall prepare a list of voters comprising all graduates of the University, completed to the last day for receiving nominations for the election, and a copy of such list shall be available for inspection at the University during the period from that day to the day appointed for the election. For the purposes of this chapter, a graduate of the University is a person on whom the Council has conferred any degree or to whom the Council has awarded any postgraduate diploma.

27. (a) No person shall be eligible for election

(i) unless he is a graduate of the University; and

(ii) unless his name has been communicated to the Registrar in writing under the hands of two qualified voters thirty-five clear days before the day appointed for the election.

(b) Every nomination of a person for election shall contain the written consent of such person to his nomination.

28. For the purposes of subsection (5) of section 8 of the Act, a person is a full-time member of the staff of the University if he occupies a position which the Council, by order, determines is a full-time position.

29. On the expiration of the time for receiving nominations, the Registrar shall cause the name of each person so nominated and the fact of his candidature to be posted as soon as practicable at the University and in such other places as the Council may determine.

30. If the number of nominations received is equal to or less than the number of candidates to be elected, the Registrar shall declare the candidate or candidates duly elected. If the number of candidates exceeds the number of candidates to be elected, the election shall be by postal ballot.

31. The ballot shall be conducted in the manner prescribed in by-laws 45 and 46 of this chapter.

32. The election of the elected student members (in this chapter referred to as the "student members") pursuant to subsection (5A) of section 8 of the Act shall be conducted in accordance with by-laws 33 to 44 of this chapter.

33. The student members shall be elected by the students of the University.

34. Three student members shall be elected on such day in June 1971 as the Council may appoint and their terms of office shall be

(a) in the case of two of them, two calendar years commencing on the first day of July immediately following their election;

(b) in the case of the other, one calendar year commencing on the first day of July immediately following his election.

35. (a) The student members referred to in paragraph (a) of by-law 34 of this chapter shall be the two elected candidates who secured, on the final count, the largest and second largest number of votes at the election held in June 1971.

(b) The student member referred to in paragraph (b) of by-law 34 of this chapter shall be the elected candidate who secured, on the final count, the third largest number of votes at the election held in June 1971.

Members Elected by Graduates

#### Elected Student Members

(c) Where only one or two candidates are duly nominated at the election held in June 1971, their terms of office shall be two calendar years commencing on the first day of July immediately following their election.

(d) Where only three candidates are duly nominated at the election held in June 1971 or where all three of the elected candidates secure an equal number of votes on the final count in that election, the Registrar shall determine by lot which of them shall hold office for two calendar years and which of them shall hold office for one calendar year.

In this paragraph, "determine by lot" means determine in accordance with the following directions:

The name of each student member concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the two student members whose names are first and second drawn shall hold office for two calendar years and the other student member shall hold office for one calendar year.

(e) Where two student members secure on the final count an equal number of votes and they are placed equal second in the election held in June 1971, the Registrar shall determine by lot which of them shall hold office for two calendar years and which of them shall hold office for one calendar year.

In this paragraph, "determine by lot" means determine in accordance with the following directions:

The name of each student member concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the student member whose name is first drawn shall hold office for two calendar years and the other student member shall hold office for one calendar year.

36. An election by the students of one student member shall be held on such day in June 1972 and on such day in that month in each alternate year thereafter as the Council may from time to time appoint. The term of office of the student member elected in 1972 and in each alternate year thereafter shall be two calendar years commencing on the first day of July immediately following his election.

37. An election by the students of two student members shall be held on such day in June 1973 and on such day in that month in each alternate year thereafter as the Council may from time to time appoint. The term of office of the two student members elected in 1973 and in each alternate year thereafter shall be two calendar years commencing on the first day of July immediately following their election.

38. Forty clear days' notice of the day appointed for the election of student members shall be given by notices posted at the University and in such other places as the Council may determine.

39. The Registrar shall prepare a list of the students qualified to vote at the election and a copy of such list, completed to the last day for receiving nominations for the election, shall be available for inspection at the University during the period from that day to the day appointed for the election.

40. (a) No person shall be eligible for election unless his name has been communicated to the Registrar under the hands of two qualified voters twenty-eight clear days before the day appointed for the election.

(b) Every nomination of a person for election shall contain the written consent of such person to his nomination.

41. For the purposes of subsection (5A) of section 8 of the Act, a person is a full-time member of the staff of the University if he occupies a position which the Council, by order, determines is a full-time position.

42. On the expiration of the time for receiving nominations, the Registrar shall cause the name of each person so nominated and the fact of his candidature to be posted as soon as practicable at the University.

43. If the number of nominations received is equal to or less than the number of candidates to be elected, the Registrar shall declare the candidate or candidates duly elected. If the number of candidates exceeds the number of candidates to be elected, the election shall be by postal ballot.

44. The ballot shall be conducted in the manner prescribed in by-laws 45 and 46 of this chapter.

45. In the case of members to be elected by the graduates twenty-one and in all other cases fourteen clear days before the day appointed for an election the Registrar shall transmit a voting paper through the post to each person whose name appears on the relevant list of voters, addressed to the last known address of the person as noted in the records of the Registrar. Each voting paper shall be accompanied by an envelope marked "voting paper" and by a second envelope addressed to the Registrar on the inside of which shall be printed a form of declaration to be signed by the voter stating that he is duly qualified to vote at the election.

46. (a) The voting paper shall contain the names of all duly nominated candidates arranged in the order which the Registrar shall determine by lot. The voter shall record his vote by placing the number "1" opposite the name of the candidate to whom he desires to give his first preference vote. He may then, at his discretion, give contingent votes to some of or to all of the remaining candidates by placing the numbers "2", "3", "4" and so on, as the case may require, opposite the names of such candidates respectively so as to indicate by numerical sequence the order of his preference for them. In this paragraph "determine by lot" means determine in accordance with the following directions:

The name of each candidate concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the candidates' names shall be listed in the order drawn.

(b) Having marked his voting paper and signed the declaration, the voter shall place the voting paper without any other matter in the envelope marked "voting paper", which he shall seal and transmit to the Registrar in the envelope provided for that purpose. All voting papers so transmitted and received by the Registrar not later than 5 p.m. on the day of the election shall, subject to paragraph (e) of this by-law, be counted in the ballot.

(c) In conducting the ballot, the Registrar may be assisted in the counting of the votes by scrutineers to be appointed by the Vice-Chancellor. Each candidate shall be entitled to nominate one scrutineer.

(d) As soon as practicable after the closing of the ballot the Registrar, in the presence of such of the scrutineers as choose to be present, shall proceed to the examinations of the voting papers.

(e) The Registrar shall reject as informal any voting paper in respect of which the provisions of paragraphs (a) and (b) of this by-law have not been complied with.

(f) The method of counting votes at any election where only one candidate is to be elected shall be as prescribed in by-law 47 of this chapter.

(g) The method of counting votes at any election where two or more candidates are to be elected shall be as prescribed in by-law 48 of this chapter.

47. (a) The Registrar shall count the total number of first preference votes given to each candidate.

(b) If any candidate has received an absolute majority of votes, the Registrar shall declare that candidate elected; but if no candidate has received an absolute majority of votes, the candidate who has received the fewest votes shall be excluded and each voting paper counted to him shall be allocated to the continuing candidate next in order of the voter's preference.

Method of Counting Votes at Elections where only One Candidate is to be Elected

Conduct of Elections where Ballot is Necessary (c) The Registrar shall then make a second count and, if any candidate then has received an absolute majority of votes, the Registrar shall declare that candidate elected; but if no canidate then has received an absolute majority of votes, the process of excluding the candidate who has received the fewest votes, of allocating each voting paper counted to him to the continuing candidate next in order of the voter's preference, and of making a further count shall be repeated until a count reveals that one candidate has received an absolute majority of votes. The Registrar shall then declare that candidate elected.

(d) If, after any count other than the final count, two or more candidates have received an equal number of votes and one such candidate has to be excluded, the Registrar shall determine by lot which of them shall be excluded. In this paragraph, "determine by lot" means determine in accordance with the following directions:

The name of each candidate concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the candidate whose name is first drawn shall be excluded.

(e) If, after the final count in which there are only two continuing candidates, both candidates have received an equal number of votes, the Registrar shall determine by lot which of them shall be elected. In this paragraph, "determine by lot" means determine in accordance with the following directions:

The name of each candidate concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the candidate whose name is first drawn shall be elected.

The candidate so elected shall be deemed to have received an additional vote.

(f) In this by-law

"an absolute majority of votes" means a number greater than one half of the total number of ballot papers counted;

"continuing candidate" means a candidate who has not been excluded from the ballot.

Method of Counting Votes at Elections where Two or More Candidates are to be Elected 48. (a) The Registrar shall count the total number of first preference votes given to each candidate.

(b) The candidate who has received the fewest votes shall then be excluded and, if the number of continuing candidates is then equal to the number to be elected, the Registrar shall declare such continuing candidates elected; but if the number of continuing candidates is greater than the number to be elected, each voting paper counted to the excluded candidate shall be allocated to the continuing candidate next in order of the voter's preference.

(c) The Registrar shall then make a second count.

(d) The candidate who has received the fewest votes shall then be excluded and, if the number of continuing candidates is then equal to the number to be elected, the Registrar shall declare such continuing candidates elected; but if the number of continuing candidates is still greater than the number to be elected, the process of allocating the excluded candidate's voting papers to the continuing candidate next in order of the voter's preference, of making a further count, and of excluding the candidate who has received the fewest votes shall be repeated until the number of continuing candidates is equal to the number to be elected. The Registrar shall then declare such continuing candidates elected.

(e) If, after any count, two or more candidates have received an equal number of votes and one such candidate has to be excluded, the Registrar shall determine by lot which of them shall be excluded. In this paragraph "determine by lot" means determine in accordance with the following directions:

The name of each candidate concerned having been written on separate and similar slips of paper and the slips having been folded so as to prevent identification and mixed and drawn at random, the candidate whose name is first drawn shall be excluded.

(f) In this by-law

"continuing candidate" means a candidate who has not been excluded from the ballot.

49. When a casual vacancy occurs in the office of an elected member, the Council shall appoint a person to fill the vacancy.

Filling of Casual Vacancy in the Office of an Elected Member

1. The Professors and such other persons as Council may appoint shall form a Board, to be called the Professorial Board.

2. The members of the Professorial Board shall elect a Chairman at a duly convened meeting to be held in May in 1950 and in 1951 and in May of every alternate year after 1951.

The Chairman shall hold office for a period of two years from the first day of July following the election: Provided that the first Chairman shall hold office for a period of one year from the first day of July following his election.

If the office becomes vacant by death, resignation or otherwise before the expiration of the full term, a successor shall be elected at a duly convened meeting of the Board to be held as soon as conveniently may be, and the Chairman so elected shall hold office during the remainder of his predecessor's term of office.

3. The Registrar shall, by virtue of his office, be a member of the Professorial Board and shall act as Secretary to the Board.

4. (i) The Professorial Board shall be specially charged with the duty of furthering and co-ordinating the work of Faculties and Departments and of encouraging scholarship and research and of considering the studies and discipline of the University.

The Board shall consider and report upon all matters referred to it by the Council or by the Vice-Chancellor.

(ii) Subject to By-laws and to any resolution of the Council the Board

(a) may consider and take action upon reports submitted to it by any Faculty;

(b) may refer matters to Faculties for consideration and report;

(c) may appoint internal and external examiners after report from the Faculty or from the Dean of the Faculty concerned;

(d) shall, on the recommendation of the appropriate Faculties, annually prescribe text and principal reference books and descriptions of subjects for examinations in the University, but in any of these subjects pertaining to more than one Faculty when the recommendations of the Faculties concerned do not coincide, the Professorial Board shall, after further communication with the said Faculties, prescribe such books and descriptions of subjects;

(e) may determine the conditions of competition for any postgraduate fellowship, scholarship or prize and make the awards: Provided that any conditions of competition approved by the Board for any postgraduate fellowship, scholarship or prize shall be subject to conditions, if any, with respect thereto made by the founder or donor;

(f) may, after report from the Faculties concerned, decide all questions of admission ad eundem gradum. The Professorial Board may by an absolute majority of its members (provided that the Faculty, if any, concerned concurs by an absolute majority of its members) recommend to the Council that a person who has obtained any degree or diploma in another University or educational establishment be admitted to a Degree in the University of New South Wales without any examination;

(g) may submit recommendations to the Council on the invitation of the Council with respect to the selection of Professors, Lecturers, and other teaching and research staff;

(*h*) may, after a report of the Faculties concerned, decide all questions of admission with advanced standing. The Professorial Board may by an absolute majority of its members (provided that the Faculty, if any, concerned concurs by an absolute majority of its members) recommend to Council that a person who has completed an approved course of study in a University or educational establishment approved by the Council be admitted with such advanced standing as may be permitted in each case to a course leading to a Degree of the University of New South Wales;

Chapter III — The Professorial Board (*i*) may perform the duties of a Faculty for all subjects not pertaining to any Faculty and perform any function committed to it by this By-law, although any Faculty or Faculties may have failed to report;

(*j*) may submit recommendations to Council with respect to any other matter pertaining to academic standards or facilities.

Where the Board does not approve without amendment any recommendation made by a Faculty, the Board shall, if so requested by the Faculty, transmit the recommendation to the Council.

(iii) The Board shall have such other duties and powers as may from time to time be assigned to it by the Council.

(iv) A report of the proceedings of the Board shall be circulated to members of the Council with the notice or supplementary notice of matters to be considered at the meeting of the Council next following that of the Board and shall be laid upon the table of the Council at that meeting.

(v) The Council may at any time of its own motion or at the request of a Faculty review any decision of the Board.

5. (a) The Vice-Chancellor or any member of the Professorial Board may suspend any student from attendance at classes and examinations for breach of discipline or misconduct, and may impose penalties in accordance with academic usage on any student for breach of discipline or misconduct, provided that the circumstances relating to the suspension or fine shall be reported in writing by the member to the Vice-Chancellor forthwith. This By-law shall only extend to breach of discipline or misconduct committed in or with respect to the classes or work of the Department of such member, or committed in his presence.

(b) On reference by the Vice-Chancellor the Board shall investigate matters which involve any question as to breach of discipline or misconduct of any kind by any student or candidate at any University examination and may impose penalties in accordance with academic usage.

(c) Any person affected by a decision of any member of the Professorial Board (other than the Vice-Chancellor) in respect of breach of discipline or misconduct may appeal to the Vice-Chancellor, and in the case of disciplinary action by the Vice-Chancellor, whether on appeal or otherwise, to the Council.

6. (a) The Professorial Board shall meet at the discretion of the Chairman or upon the written request of the Chancellor, or Vice-Chancellor, or of three members of the Board.

(b) Except where otherwise provided by these By-laws, all questions which shall come before a meeting of the Professorial Board at which a quorum is present shall be decided by the majority of members present, and the Chairman shall have a vote, and in the case of an equality of votes, a casting vote.

The number of members who shall constitute a quorum of the Professorial Board shall be the product obtained by multiplying the total number of members of the Board (exclusive of members who have been granted leave of absence by the Vice-Chancellor) by two-thirds, any fraction in the product being disregarded.

(c) All meetings shall be convened by written notice from the Registrar, specifying the time and place and agenda of the meeting.

Chapter IV — The<br/>Faculties1. (a) The Council may constitute such Faculties as it may deem fit.<br/>(b) Each Faculty shall consist of the Professors, Associate Professors, Senior Lecturers

and Lecturers in the subjects for which the Faculty is responsible and such other persons having appropriate qualifications as the Council may appoint thereto.

(c) The Registrar shall, by virtue of his office, be a member of each Faculty.

2. Each Faculty shall elect a Chairman, in the manner provided in this Chapter, who shall preside over the meetings of the Faculty and shall discharge any other duties which Council may assign to him.

3. A person shall not be eligible to be elected as Chairman of any Faculty unless he is a Professor of that Faculty. The Chairman of a Faculty shall be elected by a postal preferential ballot conducted by the Registrar during the month of March in 1964 and during the month of February in each alternate year after 1964. Nominations for election as Chairman of any Faculty shall be signed by two members of the Faculty and, in the case of the election to be conducted during the month of March in 1964, shall be lodged with the Registrar before 5 p.m. on the 19th March, 1964, and, in the case of subsequent elections before 5 p.m. on the second Monday in the month of February of each alternate year after 1964. Such nominations shall also contain the written consent of the nominee to his nomination. Where there is only one nominee the Registrar shall declare him to be elected as Chairman of the Faculty. Where there is more than one nominee the Registrar shall, within seven days after the close of nominations, transmit to each member of the Faculty a voting paper addressed to the official address of the member. Each voting paper shall be accompanied by an envelope marked "voting paper" and addressed to the Registrar. The voter shall be instructed to record his vote on the voting paper and to return it to the Registrar to reach him not later than 5 p.m. on the last day that is not a Saturday, Sunday or public holiday, in the month of March in the year 1964 and not later than 5 p.m. on the last day that is not a Saturday, Sunday or public holiday in the month of February in each alternate year after 1964.

All voting papers so received by the Registrar not later than 5 p.m. on the day appointed shall be counted in the ballot and the method of counting the votes to ascertain the results of the election shall be as prescribed by by-law 47 of Chapter II of these By-laws.

4. (a) If the office of Chairman becomes vacant by death, resignation, or otherwise before the expiration of the full term, a successor shall be elected generally in the manner prescribed above, as soon as practicable, and in the interval the Dean shall act as Chairman of the Faculty.

(b) If the Chairman is absent from a meeting of Faculty, the meeting may elect a Chairman for that meeting from the Professors present.

5. Each Faculty shall

(a) supervise the teaching in the subjects with which the Faculty is concerned;

(b) be responsible, with the assistance of such examiners as the Professorial Board may from time to time appoint on the report of the Faculty or of the Dean, for the conduct of examinations in those subjects;

(c) take cognizance of and encourage scholarship and research in those subjects;

(d) consider and report upon all matters referred to it by the Council or by the Vice-Chancellor, or by the Professorial Board.

6. Each Faculty shall consider and report to the Professorial Board upon all matters relating to the studies, lectures, examinations and degrees of the Faculty including the annual prescription of text and principal reference books and descriptions of subjects for lectures which the Faculty is responsible to supervise, all admissions *ad eundem gradum* to degrees of the Faculty, and all admissions with advanced standing to courses in the Faculty.

7. Each Faculty shall have such other duties and powers as may from time to time be assigned to it by the Council.

8. Each Faculty shall establish an Executive Committee which shall meet under the Chairman of the Faculty. The Executive Committee shall meet as required, and shall consider all business relating to the Faculty, including the agenda for Faculty meetings, and shall submit to each Faculty meeting recommendations upon the matters contained in the agenda. The Executive Committee of the Faculty shall consist of the Chairman of the Faculty, the Dean of the Faculty, the Registrar, the Heads of Schools of the Faculty, and such other members of the Faculty as the Faculty may appoint thereto.

8A. Each Faculty shall not consider any item of business at a meeting that has not received prior consideration by the Executive Committee pursuant to by-law 8 except with the consent of the Chairman and of a four-fifths majority of members present and voting at that meeting.

9. Each Faculty shall establish a Higher Degree Committee which shall perform such

duties as may be assigned to it by Council on the recommendation of the Professorial Board. The Higher Degree Committee shall consist of the Chairman of the Faculty who shall be the Chairman of the Committee, all the Professors who are members of the Faculty, the Registrar and not more than six other members of the Faculty nominated by Faculty. Each Faculty shall be responsible for the general supervision of all matters relating to candidature for a higher degree or graduate diploma of the Faculty and shall indicate to its Higher Degree Committee the broad policy to be followed.

10. All meetings of the Faculty and of its Executive and Higher Degree Committees shall be called by the Registrar, who shall consult with both the Chairman and the Dean before determining the place, date and hour of the meeting.

11. Except where otherwise provided by these By-laws all questions which come before a meeting of a Faculty at which a quorum is present shall be decided by the majority of the members present and voting and the Chairman shall have a vote, and in the case of an equality of votes, a casting vote. The number of members who shall constitute a quorum of any Faculty shall be the greater of (i) 20, or (ii), the product obtained by multiplying the total number of members (exclusive of members who have been granted leave of absence by the Vice-Chancellor) of that Faculty by one-third, any fraction in the product being disregarded.

12. Each Faculty shall deal with all applications for information and other correspondence on subjects appropriate to such Faculty which may be brought before it by the Dean or by the Registrar.

13. Nothing in this chapter shall be construed as affecting the precedence and authority of the Chancellor, Deputy Chancellor, Vice-Chancellor and the Dean of the Faculty, as prescribed in the Act, Regulations and By-laws.

13A. None of the provisions of this chapter shall affect the authority of the Professorial Board under which authority every Faculty shall exercise the powers, authorities and discretions and perform the duties vested in and conferred upon it by these By-laws, provided that, upon request of a Faculty the Professorial Board shall refer to the Council for final decision any matters in dispute between that Faculty and the Professorial Board.

Chapter V — The Deans 1. The Council shall appoint a Dean for each Faculty to serve for such period as Council may determine.

2. The Council may appoint Deans in areas other than Faculties and they shall serve for such periods as Council may determine.

3. The Deans appointed to Faculties, and the Deans appointed in areas other than Faculties, shall work under the supervision of the Vice-Chancellor and shall have such duties as Council may from time to time prescribe.

4. The Dean appointed to any Faculty shall be a member of the Faculty and of any committee within the Faculty, and may, if he so desires, preside at any meeting of such Faculty or committee. Nothing in this By-law shall affect the precedence or authority of the Chancellor, the Deputy Chancellor, or the Vice-Chancellor.

Chapter VI — Vice-Chancellor 1. The Vice-Chancellor shall be specially charged with the duty of promoting the interests and furthering the development of the University.

2. The Vice-Chancellor shall, by virtue of his office, be a member of every Board, Faculty and Committee, within the University, and may, if he so desires, preside at any meeting of such Board, Faculty or Committee.

3. The Vice-Chancellor shall, under the Council, subject to the By-laws and to any resolution of the Council

(a) manage and supervise the administrative, financial and other activities of the University;

(b) consult with and advise the Professorial Board, and all other University Boards, Faculties, Committees, Professors and other Heads of Departments;

(c) exercise supervision over the discipline of the University, with power, in the case of students, to impose penalties in accordance with academic usage for breach of discipline or for misconduct of any kind;

(d) give effect to the By-laws and to any regulations, rules or orders made, or to any resolution or report passed or adopted, by the Council;

(e) have such powers, authorities, duties, functions and discretions as may, from time to time, be assigned to or vested in him by the Council.

4. Nothing in this chapter shall affect the precedence or authority of the Chancellor or Deputy Chancellor.

1. The Council may admit, Honoris Causa, to any Degree other than that of Bachelor within the University, any person who is recommended for such admission by an absolute majority of the Professorial Board and by an absolute majority of the Faculty in which the Degree is to be conferred as being a person of distinguished eminence in some branch of learning appropriate to such Faculty.

2. The Council may admit, Honoris Causa, to the Degree of Doctor in an appropriate field in the University any person considered by the Council to be distinguished by eminent service to the community.

1. Subject to the provisions of any instrument creating a particular trust, moneys belonging to the University, whether at the time in a state of investment or not, may be invested in any of the following modes of investment:

(a) any public funds or Government Stock or Government Securities of the Commonwealth of Australia, or any State thereof;

(b) any debentures or securities guaranteed by the Government of the Commonwealth of Australia or any State thereof;

(c) any duly authorised debentures or securities issued by any city, municipality or shire in New South Wales, or any incorporated body or society having statutory powers to issue the same in New South Wales, and approved by the Council;

(d) first mortgage of land held in fee simple in New South Wales;

(e) first mortgage of leasehold lands held under leases, which will have not less than thirty years to run at the date of the expiration of the mortgage: Provided that no such investment shall be made unless approved by resolution of the Council at a meeting the agenda of which contains express notice of the proposal;

(f) deposit at interest with any bank authorised to carry on banking business under the Banking Act 1959 (as amended by subsequent Acts) of the Parliament of the Commonwealth of Australia or with the Rural Bank of New South Wales or with any institution authorised for the investment of cash under the control or subject to the order of the Supreme Court in its equitable jurisdiction;

(g) purchase of freehold or leasehold lands, with or without improvements: Provided that no such investment shall be made unless approved by resolution of the Council at a meeting the agenda of which contains express notice of the proposal.

2. Where any property or money is given, devised or bequeathed to or held by the University subject to any trust, the University may, subject to the terms of the trust, retain

#### Chapter VIII — Investment of University Funds

#### Chapter VII — Honorary Degrees

such property or money in the same form of investment and in relation thereto exercise all the powers conferred on trustees by the Trustee Act, 1925, as amended by subsequent Acts.

**Chapter IX — General** 1. In these by-laws, unless the context or subject matter otherwise indicates or requires, "the Act" means the University of New South Wales Act, 1968.

2. For the purposes of subsection (1) of section 5 of the Act

(a) in addition to the professors, the following classes of persons giving instruction within the University are hereby prescribed to be members of the body corporate of the University—the associate professors, senior lecturers, lecturers, senior tutors, senior demonstrators, senior tutor-demonstrators and senior instructors and such other classes of persons giving instruction within the University as the Council may, by order, from time to time determine;

(b) the following superior officers within the University are hereby prescribed to be members of the body corporate of the University—the persons appointed to the positions of Assistant Principal, Registrar, Bursar and University Librarian and to such other positions as the Council may, by order, from time to time determine.

3. For the purposes of paragraph (c) of subsection (8) of section 8 of the Act

(a) the term of office of the nominated members of the Council who were holding office on the twenty-fifth day of March 1971 shall expire on the thirtieth day of June 1973;

(b) the term of office of nominated members of the Council nominated subsequent to the twenty-fifth day of March 1971 shall be four calendar years commencing on the first day of July immediately following their nomination;

(c) the term of office of the elected members of the Council holding office on the twenty-fifth day of March 1971 shall expire on the thirtieth day of June 1971.

#### Chapter X — Fees and Charges

The Council may make regulations for the fixing and payment of fees by students of the University for entrance to the University, attendance at lectures, conferring of degrees and other charges, except in the case of any student who is granted any fellowship, scholarship, exhibition, bursary or similar benefit, to the extent to which he is thereby exempted from payment of fees.

# **General Information**

## **Intra-University Organizations**

## **Board of Studies in General Education**

The provision of courses in general studies, which form a compulsory part of most courses in Faculties other than Arts and Law, was originally the responsibility of the Faculty of Arts. However, the growing size and complexity of general studies made it necessary for a separate academic authority to be established. For this purpose, Council established a Board of Studies in General Education to be responsible from 1964 for courses in general studies for students in Faculties other than Arts, and more generally for the fostering of other forms of general education. Essentially the Board of Studies has, in the area of general education, responsibilities similar to those of a Faculty.

The Board offers for suitably qualified graduates a program of advanced studies leading to the award of the degree of Master of General Studies (MGenStud). The degree is offered for the first time in 1977. For details consult the General Studies Handbook.

## **Board of Studies in Science and Mathematics**

The Board of Studies in Science and Mathematics, which was established to facilitate the joint academic admini-

stration of the Science and Mathematics degree course by the Faculty of Biological Sciences and the Faculty of Science, considers and reports to the Professorial Board on all matters relating to studies, lectures and examinations in the science course.

The Board of Studies in Science and Mathematics includes all members of the Faculty of Biological Science, the Faculty of Science and some members of specific Schools in other Faculties contributing to the Science and Mathematics course, a representative of the Department of General Studies; the Registrar or his nominee; and such other persons as Council may appoint.

### **Broken Hill Division**

#### W. S. & L. B. Robinson University College

The Broken Hill Division of the University provides courses in Mechanical Engineering, Mining Engineering; and in Mineral Processing leading to the award of the degrees of BSc(Eng), BE and BSc(Tech) respectively. Details of these courses are set out in the section of the Faculty of Engineering Handbook covering the School of Mechanical Engineering and of the Faculty of Applied Science Handbook covering the School of Mining Engineering. Courses in Electrical and Civil Engineering can be commenced at Broken Hill Division and completed at Kensington. A Science course is also offered leading to the award of the degree, Bachelor of Science. Details of this course may be found in the Combined Sciences Handbook. Accommodation for 30 students is available at the Residential Hall.

Further information concerning the facilities at Broken Hill may be obtained from the Director, Broken Hill Division of the University of New South Wales, Box 334, PO, Broken Hill 2880.

### Royal Military College, Duntroon

The Royal Military College was established in 1911 to train cadets for service as officers in the Australian and New Zealand Armies. It presents four-year courses which combine both military and academic studies. In recent years, the courses were developed under the guidance of external academic committees to make them comparable in standard with university undergraduate courses.

In 1967 the University and the Department of the Army agreed to co-operate in developing the Royal Military College into a separate autonomous degree-conferring body within a period of ten years. To this end in 1968 the University established the Faculty of Military Studies at the College. The Faculty provides courses of study leading to the award by the University of the degrees of Bachelor of Arts in Military Studies (BA(Mil)), Bachelor of Arts with Honours in the Faculty of Military Studies (BA), Bachelor of Engineering in the Faculty of Military Studies (BE) (available at pass or honours level), Bachelor of Science in Military Studies (BSc(Mil)), and Bachelor of Science with Honours in the Faculty of Military Studies (BSc). Opportunities are available for graduate study leading to the award of the University's degrees of Master of Arts (through research), Master of Engineering, Master of Engineering Science, Master of Science and Doctor of Philosophy.

Entry to the Royal Military College is by selection; a candidate must have reached an approved academic standard and must meet certain physical and personal standards. Admission to undergraduate courses in the Faculty of Military Studies is restricted to cadets of the Royal Military College who meet the matriculation requirements of the University and to other members of the regular Defence Forces who meet such requirements and who may be approved by Faculty.

The undergraduate courses offered by the Faculty of Military Studies are listed later in the section Disciplines of the University and are published in detail in the annual Royal Military College Handbook.

Enquiries relating to the College should be addressed to the Registrar, Royal Military College, Duntroon, ACT 2600.

## Australian Graduate School of Management

In 1969 the Australian Government appointed a committee of overseas experts headed by Dr Richard Cyert, to advise on the future needs for graduate management education in Australia. The committee recommended *inter alia*, that 'a new national graduate school of management be established at the University of New South Wales.'

Late in 1973 the Australian Government announced that it would provide the financial resources necessary to proceed with the establishment of the proposed School. To undertake its planning the University appointed an Interim Board of Management, which completed its task early in 1976, and at this point was replaced by a permanent Board of Management. The sixteen members of the permanent Board include the Vice-Chancellor, the school's Director (Professor P. R. Brown), the Chairman of the Professorial Board, representatives of the public and private sectors, of employee and other organizations with interests in management education, and of the academic staff and student body of the School.

The school also has a Board of Studies which operates in similar manner to a faculty so far as the activities of the School are concerned.

The Cyert Committee saw as the basic aim of the new School 'a need to enhance, at a national level, the effectiveness of Australian professional management now and in the future'. The achievement of this goal was seen as involving five programs, different substantially in their academic content and in the time and nature of their impact, but all emphasizing preparation for general management.

The committee saw the most immediate contribution to the development of management capacity as coming from short advanced management programs designed for those already holding important managerial responsibilities in both the private and public sector. These courses commence in 1977.

In fulfilment of its second aim the School has introduced Masters' degree programs in Business Administration (MBA) and Public Administration (MPA) designed to accelerate the development of talented young persons in top management positions. Enrolment of the first masters candidates occurs at the beginning of 1977.

The third aim is to develop a doctoral program to meet the future needs of trained academic staff, not only to a limited extent for the national School itself but also in particular for Australian universities and colleges of advanced education.

The committee also saw a need for a program to produce educational materials uniquely designed to meet the needs of Australian management education, and for a program of research aimed at the development of new concepts and techniques to increase the effectiveness of Australian managers.

### Visiting Committees

To enhance its contact with outside interests and to advise it, Council has appointed a series of visiting Committees comprised of senior and experienced people from industry, commerce, government and the professions together with the professorial staff of schools and representatives from the Alumni Association. These Committees appraise particular educational programs in relation to the needs of industry and professional practice, receive and discuss the annual report of the head of the school, report to Council on any special problems facing the school, and aid the development of the school in any other way possible.

The present chairmen are: Mr G. W. Bottrill (Accountancy); Dr E. O. Rayner (Applied Geology); Dr G. De V. Gipps (Applied Physics); Dr A. A. Cooper (Building); Mr P. Huggins (Chemical Engineering and Fuel Technology); Lt-Col J. de Teliga (Chemistry); Mr C. H. Monk (Civil Engineering); Mr M. F. Lamrock (Electrical Engineering); Dr V. M. Lewis (Food Technology and Biological Process Engineering); Dr S. Sax (Health Administration); Mr A. F. Schmidt (Highway Engineering); Dr J. E. Isaac (Industrial Relations); Mr R. J. Yates (Mechanical and Industrial Engineering); Mr C. H. Martin (Mining Engineering); Mr G. Bell (Optometry); Mr R. W. Rutledge (Statistics); Mr R. B. Alderton (Surveying); Mr A. Hayes (Traffic Engineering); Mr R. J. O'Keefe (WS & LB University College, Broken Hill).

#### Australian School of Nuclear Technology

The University of New South Wales and the Australian Atomic Energy Commission have co-operated to establish the Australian School of Nuclear Technology. The school is controlled by a board consisting of representatives of the University of New South Wales, the Australian Atomic Energy Commission and the Australian Institute of Nuclear Science and Engineering. Dr J. L. Symonds, AAEC Research Establishment, is Chairman of the Board.

The School is located adjacent to the Research Establishment at Lucas Heights and has access to the excellent research facilities of the Australian Atomic Energy Commission. It was created primarily to help meet the need for additional facilities for instruction in nuclear science and technology. The principal, Mr D. A. Newmarch, who is responsible to the board for the operation of the school, controls its day to day activities. Lecturing staff is drawn from the University and the Commission as well as from other institutions when appropriate.

Courses, ranging in duration from three to sixteen weeks, are offered in various phases of nuclear technology at a variety of levels. The courses do not lead to a degree or diploma. In relevant cases, however, students of universities may obtain credit for successful attendance at a course by application through the normal university channels. Further details may be obtained from the Principal, Australian School of Nuclear Technology, Private Mail Bag, Sutherland, New South Wales 2232.

# Other University Organizations

## **Alumni Office**

The Alumni Office of the University, a section in the Registrar's Division, was established to provide a point of contact for the graduates and graduate diplomates who constitute the Alumni. It encourages a continuing relationship with the University, and each alumnus is welcome to contact the office regarding any queries or problems which may arise concerning the University. The Alumni Officer is Ms Idelies Louwers. The Alumni Office is located in the Chancellery building. Telephone 663 0351, Extn. 2998.

A close liaison is maintained with the University of New South Wales Alumni Association.

### **Division of Postgraduate Extension Studies**

The Division was formed in 1961 for the purpose of expanding the University's activities in the field of postgraduate extension studies and of providing an organization within which the University's radio and television activities could be established. Lectures, courses and seminars are held at the University's Kensington campus and elsewhere and are given over Radio University VL2UV, and Television University VITU; correspondence courses using audio or video tape recordings of the radio or television lectures are available at extension centres or wherever a group of students exists.

Special printed notes are provided for students of the radio, television and tape courses, and these are essential for understanding the lectures; seminars are conducted in conjunction with these courses giving the students the opportunity to discuss the lectures and any difficulties they may have with the material.

Domestic radios may be adapted readily to receive VL2UV. TV receivers with a uhf tuner are necessary to receive VITU. Over seventy courses are available in this way, and in country areas, groups of as few as three students may participate at fees comparable to those

paid by students in Sydney. Many enrolments are also accepted from students in other States and from over-seas.

The emphasis of radio and television courses is on graduate and refresher courses for professional people, and for school-leaving students who are proceeding to an undergraduate course at a university. A wide range of subjects is offered.

The Division also offers a two year part-time graduate diploma in human communication, in which lectures on radio and television are combined with laboratory/ tutorial work at the Kensington campus. The Division also offers a number of subjects on tape which can be taken towards the Graduate Diploma in Engineering Developments. For details see the section on Graduate Study in the Faculty of Engineering Handbook.

The research projects in the Division are principally in the field of learning and perception, using the media of radio and television, and in automated educational television program production and presentation.

The Co-ordinator of Postgraduate Extension Studies is Associate Professor D. Broadbent. The Division is located on the top floor of the Science Building, High Street, Kensington. Telephone 663 0351, Extn. 2691.

#### **Field Stations**

The University has acquired a number of field stations because real environmental conditions are necessary for teaching and research purposes in many disciplines such as Wool and Pastoral Sciences, Botany, Zoology, Surveying, Geography, Water Engineering, Architecture and Geology.

The agricultural field stations of the University include the Fowlers Gap Arid Zone Research Station, the Central West Field Station Complex (comprising properties at Wellington, Manildra and Stuart Town) and the Hay Field Station.

The biological field stations include an area at Cowan and the coastal field station at Smith's Lake.

### Institute of Administration

The Institute of Administration was established by the University Council in March 1960, its aims being to encourage and develop research and graduate and extension courses in various administrative fields.

The Institute conducts short residential courses for executives in industry, commerce, the public services,

and the professions, at its self-contained 35-bedroom residential centre at Little Bay, which is located near the Kensington campus. Some courses have general appeal but most are designed to meet the special needs of administrators in particular areas such as construction management, government, marketing, insurance, transport, trade unions and the administration of justice.

In addition to its residential courses, the Institute conducts evening graduate extension courses at Kensington in specific areas of administration.

Lecturing on Institute courses is carried out by Institute staff and University lecturers, and practising executives from business and government.

The policies of the Institute are guided by a Board of Management which consists of senior members of the University.

#### Institute of Languages

In 1966 Council approved the establishment of an Institute of Languages within the University. The Institute is an entity in its own right, and is distinct from any School or Faculty. Its main aim is to assist students and staff members to acquire practical skill and proficiency in speaking, reading and, in some cases, writing a foreign language. Its secondary aim is to conduct courses in a number of languages, including English as a Foreign Language for overseas students and others.

The languages offered are determined in the light of needs and demands. Included in the Institute's facilities are two thirty-booth language laboratories, remedial and convertible individual booth laboratories, listening posts, a rapid reading clinic and miscellaneous electronic equipment to aid in the accelerated language learning process.

The Institute is responsible directly to Professor J. B. Thornton, Pro-Vice-Chancellor. The Director is Mr A. J. Garrick.

## **Institute of Marine Sciences**

The Institute comprises members of departments, schools and faculties of the University which have teaching and research interests in some field of marine science. The major part of the work of the Institute is conducted within the administrative framework of the member schools, but it is envisaged that some research and future courses that span the interests of several schools will be developed as Institute projects.

## Institute of Rural Technology

The Institute of Rural Technology was formed by the University Council in 1959. It was felt that such a body could best co-ordinate and expand the research activities of the various Schools on problems relating to the primary industries of Australia. While the School of Wool and Pastoral Sciences is daily concerned with many problems of the wool industry, other Schools are also engaged in work of importance to the man on the land. For example, various aspects of agricultural engineering are being investigated by the School of Mechanical and Industrial Engineering, and the School of Botany is involved in the development of superior varieties of cereal crops. These different activities are being co-ordinated by the Institute of Rural Technology.

Advisory work in fields not covered by existing advisory services is also carried out by the publication of reports of research.

The Institute through its Chairman is responsible for the development and administration of field research stations placed under its control by the University. The first of these stations is at Wellington, NSW, with subsidiary properties at Manildra and Stuart Town.

The Management Committee of the Institute is made up of representatives of the University's Schools under the chairmanship of Professor A. H. Willis, Pro-Vice-Chancellor, Mr J. W. A. Brain is the Technical Secretary of the Institute.

# The Postgraduate Committee in Medical Education

The Postgraduate Committee in Medical Education was established by Council in 1963 with the following membership:

1. The Chancellor, the Deputy Chancellor, the Vice-Chancellor, any members of the Council who are legally qualified members of the medical profession, and the Dean of the Faculty of Medicine as *ex officio* members.

2. The Heads of the Schools and Professors in the Faculty of Medicine.

**3.** The Honorary Director of the Postgraduate Committee in Medical Education.

4. One representative of each of the following hospitals to be appointed to the Committee by Council after a nomination is received from each hospital: Prince Henry, Prince of Wales, St. Vincent's, St. George, Royal Hospital for Women, Bankstown, Canterbury, Lewisham, Royal South Sydney, Sutherland.

**5.** Not more than eight representative members who shall be appointed by the Council.

6. Not more than three co-opted members who may be elected by the *ex officio* and the appointed members.

The Chairman of the Postgraduate Committee in Medical Education is the Vice-Chancellor, or a member of the Professorial Board nominated by the Vice-Chancellor.

The terms of reference of the Postgraduate Committee in Medical Education are to promote graduate education and research in medicine at the University, and at its associated hospitals. It organizes courses for medical practitioners on developments in medicine and provides graduate courses by radio and television through the University's Division of Postgraduate Extension Studies, co-operates with the relevant Government authorities in the field of graduate medicine, with the Boards and staffs of the associated hospitals, with graduate committees in medicine at other Australian Universities, and with the Australian Postgraduate Federation in Medicine.

#### **Public Affairs Unit**

The role of the Public Affairs Unit is to facilitate communication of information and mutual understanding within the University community, and to promote knowledge of the University in the community at large.

The Unit has two sections, Editorial Services and Information. The PAU is responsible for several publications including UNIKEN (a fortnightly campus journal for staff and students), Quarterly (a journal for alumni, staff and general public), the University's Annual Report, Occasional Papers, the Handbook for New Students, Gulde to the Campus, You and the University, and a visitor's leaflet.

Other services of the PAU are official news releases, general liaison with the media, a daily press cuttings service, design and editorial advice for publications of a general nature, and photography for the University's administration.

The Adviser, Public Affairs, and Head of the Public Affairs Unit is Dr Peter Pockley.

The Unit is located in Rooms 158/159, The Chancellery. Telephone 663 0351, Extn. 3741.

#### Publications

Students learn about the University—its rules and courses—through the Calendar, the Handbooks and brochures produced by the Publications Section in the Registrar's Division. The Publications Section also brings the activities of the University to the attention of the outside community by publicizing such events as 'Open Day'. The section is also responsible for a number of major publications which appear regularly: the *Triennium Submission to the Universities Commission*, the *Research and Publications Report, Approach to Physical Sciences*, the Ratcliffe Memorial Lectures (monographs), proceedings of some of the University's seminars and symposia, and for such journals as *The Australian Journal of Management* and *Urbanology*. The section also arranges other publications as required by the University.

## **Radiation Protection**

The increase in the use of ionising radiation in the University led to the appointment in 1961 of a full-time Radiation Protection Officer. The objectives of the radiation safety program are to supervise the protection of personnel, to ensure fulfillment of the statutory requirements, to facilitate the use of radiation, and to minimize the possibility of the occurrence of a radiation incident within the University. Association is maintained with those responsible for radiation safety in the University's teaching hospitals.

The Radiation Protection Officer is Dr R. Rosen.

## **Tertiary Education Research Centre**

Established in 1961, the Centre aims to carry out research and development activities relevant to the University generally and to its teaching and learning programs in particular. The Centre's Director is Professor F. M. Katz.

The Centre offers consultative and evaluative services to help faculties, schools and individual staff members to develop teaching skills, educational objectives and evaluation procedures. Its more general research activities are not only involved in these areas but also in aspects of students' academic and social progress in the University.

TERC also offers specialized services. The Film Centre arranges the loan of selected films, and provides annotated lists of films on various subjects. The Visual Aids Section produces many visual aids including 8 mm and 16 mm films and video-recordings. The Teaching and Learning Resources Centre advises on all aspects of educational media.

### **Unisearch Limited**

Unisearch Ltd. was established in April 1959, by the Council of the University for the purpose of furthering one of the major objects of the University as set out in the Act of Incorporation, viz 'to aid by research and other suitable means the advancement, development and practical application of science to industry and commerce'.

Unisearch actively seeks to assist Australian industry in the solution of its research and developmental problems. It provides technical services in a wide variety of industrial fields, and is responsible for the exploitation of patents of inventions arising out of the work of the University. The Company has had considerable success in solving production problems brought to it by industrial organizations in all Australian States and in assisting in the establishment of new industrial processes.

The Articles of Association of Unisearch Ltd., which has no share capital, provide that only members of the Council of the University may be appointed members of the Company, of which there are nine. The business of the Company is conducted by four directors, one of whom is the Vice-Chancellor of the University. The members and directors receive no payment for their services and all profits from the Company's operations are given to the University to further its objects and work in the community.

All enquiries should be addressed to the General Manager, Mr B. Rosenberg, Unisearch Ltd, PO Box 1, Kensington, NSW 2033. Telephone 663 0351, Extn. 3701.

## Associated University Organizations

### **Drama Foundation**

The Foundation was established in 1965 under the auspices of the Council of the University and in association with the Australian Elizabethan Theatre Trust. The Board of Governors is made up of an equal number of members representing the University, and the Trust, and a Chairman appointed by the University. The Chairman of the Board is Mr H. F. Heath, Member of Council of the University of New South Wales. The Executive Member of the Board is Professor Robert Quentin, Head of the School of Drama, the University of New South Wales. The purpose of the Foundation is to promote and encourage the practice and study of the theatre arts in New South Wales, particularly through the drama organizations already existing at the University, and to receive and administer funds for this purpose.

The Foundation began its operations in 1966.

#### The Medical Foundation

The present Foundation was established in 1973 by the University Council as a fund-raising body to promote education, training and research in the University's Faculty of Medicine and teaching hospitals. It is controlled by a Board consisting of the Dean of the Faculty of Medicine, the Chairman of the Faculty of Medicine, any medically qualified member of Council and up to twelve other members appointed by Council.

## Monomeeth Association

The Monomeeth Association, which takes its name from an aboriginal word meaning 'friendship', is a group of parents and friends of the University, founded in 1963 to promote the University's interests in the Community. It also raises funds for campus amenities, and those provided to date include the large clocks on the outside of four of the major buildings of the University, and the Steinway piano in the Clancy Auditorium.

The Association's members normally meet in the Council Chamber on the last Friday of every second month, and occasionally hold social functions. Membership is open to all parents and friends of graduates and undergraduates. Other persons interested to learn about the University may attend any of the Association's functions without obligation. Further information may be obtained from the President, Mr G. S. C. Lang, Unit 603, 349 New South Head Road, Double Bay 2028. Telephone 326 1138.

### The National Institute of Dramatic Art

The National Institute of Dramatic Art was established in 1958 under the auspices of the University of New South Wales, the Australian Elizabethan Theatre Trust and in association with the Australian Broadcasting Commission. These three bodies are represented on the Board of Directors to which the Director, Mr J. R. Clark, is responsible for the general conduct of the Institute. The Board is advised through the Director by a Board of Studies on such matters as the awarding of scholarships and the arrangement of the curriculum.

In 1963, NIDA established the Old Tote Theatre Company, which has grown in stature to become one of the country's leading drama companies. The Old Tote soon became an independent organization and moved to the Parade, a larger theatre on the University campus, and extended its range in 1973, when it became the resident theatre company at the Sydney Opera House.

The Jane Street season of Australian plays was established in 1966 and, in association with the NIDA Advanced Course, has become a regular feature of the theatrical life of Sydney.

NIDA is financially supported by the Australia Council and by the University of New South Wales. Valuable assistance of a practical kind is received from the Australian Elizabethan Theatre Trust, and the Australian Broadcasting Commission provides generous training facilities in radio and television.

Enquiries should be addressed to: The Director, The National Institute of Dramatic Art, PO Box 1, Kensington, NSW 2033. Telephone 663 3815.

#### The University of New South Wales Alumni Association

Graduation confers on each graduate or diplomate alumnus of the University formal membership of the University of New South Wales Alumni Association, which fills a similar function to Convocation, the statutory body to which graduates automatically belong in many other universities.

Over 26,000 alumni have now entered various fields of employment in over 80 countries, and the Association seeks to bring all these people into a mutually beneficial co-operative association. Branches have developed both interstate and abroad, and they provide helpful contacts wherever alumni may travel. This point is emphasized by the Association's membership of the Australian University Graduate Conference, which has already established world-wide contacts in the interests of University alumni.

The Alumni Association was formed in 1967, and now has a broadly representative elected Board. A major section of the Board, which manages the affairs of the Association, consists of a member from the graduating class in each Faculty, who holds office for one year. The remainder of the Board consists of thirteen members elected by the alumni and five persons appointed by the University Council, at least three of whom are members can also be co-opted by the Board. There is no subscription for an ordinary member; however, an alumnus may choose to become a contributing member of the organization to assist with continuing expenses and to establish a fund for Alumni Association projects.

If you wish to obtain any further information about the Association, please contact the Alumni Office, Third Floor, the Chancellery, or telephone 663 0351, Extn. 2998.

#### The New South Wales University Press Limited

The New South Wales University Press publishes scholarly works, textbooks and a variety of general books. It was established in 1961 and is jointly owned by the University and the Students' Union.

In 1976 an Editorial Advisory Committee was formed with a view to encouraging the publication of quality scholarly typescripts. However, the number of such typescripts it accepts is related both to their quality and available finance.

The Chairman of directors is Mr H. Levy. Mr D. S. Howie is general manager of the company.

The editorial and sales offices of NSWU Press are in the Chancellery Building, Telephone 663 0351, Extn. 3503.

All enquiries should be addressed to the General Manager, New South Wales University Press, Box 1, PO Kensington, NSW 2033.

## **U** Committee

The U Committee, with members drawn from staff wives and friends of the University, has very much broadened its interests since it was established in 1963 as the U Ball Committee.

Fund-raising is its prime purpose, and in the twelve years of its operation the Committee has presented more than \$116,000 to the University. Projects it has promoted include the combined Sydney University and UNSW International House furnishing appeal, the stage tower at the Parade Theatre, the acquisition of the Mona Hessing tapestry for the foyer of the Clancy Auditorium, the time clock and its installation at the David Phillips Field, and the visit of the UNSW Opera to the Fifth International Festival of Youth Orchestras in Britain in 1975. One of its major activities is the Book Fair, the fifth of which was held in April 1976. The next will be held in 1978.

The Secretary, Mrs J. A. Mills, 3/13 Ferry Street, Hunters Hill 2110 (Telephone 896 1700), would be pleased to hear from women Interested in joining.

#### Wives' Group

The members of the University Wives' Group are wives of University staff. They meet on the third Wednesday of each month from February to November to share interests and develop friendship and social intercourse. Generally the meetings have a guest speaker and are held in the Roundhouse.

The Group is eager to welcome new members, and in order to attract more young wives has established a child-minding service with a nominal fee. The Group membership fee is \$3 and wives interested in joining may contact the Secretary, Mrs E. Hind, at 20 Maitland Avenue, Kingsford 2032. Telephone 663 2959.

## **Financial Assistance to Students**

#### **Tertiary Education Assistance Scheme**

Under this scheme, which is financed by the Australian Government, assistance is available for full-time study in approved courses, to students who are not bonded and who are permanent residents of Australia, subject to a means test on a non-competitive basis.

Students in the following types of university courses are eligible for assistance:

- Undergraduate and graduate degree courses
- Graduate diplomas
- Approved combined Bachelor degree courses

• Master's qualifying courses if the course is the equivalent of an honours year and the student has not attempted an honours year.

#### Benefits (as at 30 June 1976)

Means-tested Living Allowance The maximum rates of living allowances are \$1,000 per annum for students living at home and \$1,600 per annum for students living away from home. The maximum rates of living allowance will be paid where the adjusted family income is equal to *or* less than \$7,600 per annum. The adjusted family income is assessed by subtracting from the gross income of both parents their business expenses and an amount of \$450 for each dependent child other than the student.

When the adjusted family income exceeds \$7,600 pa the amount of living allowance will be reduced by \$2 for every \$10 of income until the family income exceeds \$15,200 per annum. After this level, the living allowance will be reduced by \$3 for every \$10 of income. A concession may be made where there are other children in the family undertaking tertiary education with scholarship assistance from schemes other than the Tertiary Education Assistance Scheme of less than \$600 pa.

Students qualifying for living allowance will also receive the following allowances where appropriate:

Incidentals Allowance The Incidentals Allowance of \$100 is designed to help the student meet the cost of those fees which have not been abolished—the Students' Union, University Union and Sports Association fees, and other expenses associated with their studies.

Travel Allowance Students whose homes are in the country may be reimbursed the cost of three return trips per year, during vacation time.

**Dependants' Allowance** This is made up of allowances of \$15 per week for a dependent spouse and \$7 per week for each child.

How to Apply 1976 Higher School Certificate candidates and tertiary students receiving an allowance were sent forms last October. Other students may obtain forms from the Admissions Section or the Student Employment and Scholarships Unit, or from the Regional Director, Department of Education, 323 Castlereagh Street, Sydney, NSW 2000 (Telephone 218 8800). The administrative closing date for 1977 applications was 31 October 1976.

#### **Other Financial Assistance**

In addition to the Tertiary Education Assistance Scheme financed by the Australian Government the following forms of assistance are available:

1. Determent of Payment of Fees Deferments may be granted for a short period, usually one month, without the imposition of a late fee penalty, provided the deferment is requested prior to the due date for fee payments.

2. Short Term Cash Loans Donations from the Students' Union, the University Union and other sources have made funds available for urgent cash loans not exceeding \$100. These loans are normally repayable within one month.

3. Early in 1973 the Australian Government made funds available to the University to provide loans to students in financial difficulty. The loans are to provide for living allowances and other approved expenses associated with attendance at University. Repayment usually commences after graduation or upon withdrawal from the ccurse. Students are required to enter into a formal agreement with the University to repay the loan.

From the same source students who are in extremely difficult financial circumstances may apply for assistance by way of a non-repayable grant. In order to qualify for a grant a student must generally show that the financial difficulty has arisen from exceptional misfortune.

In all cases assistance is limited to students with reasonable academic records and whose financial circumstances warrant assistance.

Inquiries about all forms of financial assistance should be made at the office of the Deputy Registrar (Student Services), Room 148A, in the Chancellery.

#### Financial Assistance to Aboriginal Students

Financial assistance is available from a number of sources to help Aboriginal students. Apart from the Australian Government's Tertiary Education Assistance Scheme there is a Commonwealth Aboriginal Study Grant Scheme Furthermore, the University may assist Aboriginal students with some essential living expenses in exceptional circumstances.

All inquiries relating to this scheme should be made at the office of the Deputy Registrar (Student Services), Room 148A, in the Chancellery.

#### Fund for Physically Handicapped and Disabled Students

The University has a small fund (started by a generous gift from a member of staff who wishes to remain anonymous) available for projects of benefit to handicapped and disabled students. Inquiries should be made at the office of the Deputy Registrar (Student Services), Room 148A, in the Chancellery.

## Scholarships

## Undergraduate Scholarships

As well as the assistance mentioned, there are a number of scholarships available to students. What follows is an outline only. Full information may be obtained from the Student Employment and Scholarships Unit, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Registrar by 14 January each year.

Undergraduate	Scholarships	(continued)
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Donor	Value	Year/s of Tenure	Conditions
General			
Bursary Endowment Board*	\$300 pa if living at home; \$400 pa if living away from home	7 years	Merit in HSC and total family income not exceeding \$4000
Sam Cracknell Memorial	\$1000 to \$1500 pa payable in fort- nightly instalments	1 year	Prior completion of at least 2 years of a degree or diploma course and enrol- ment in a full-time course during the year of application; academic merit; participation in sport either directly or administratively; and financial need
Air Force Association Memorial Scholarship	\$250 pa	1 year renewable for the duration of the course subject to satisfactory progress	Child of member or former member of Royal Australian Air Force undertaking a full-time degree course

Applied Science			
Applied Geology			
Esso Australia Ltd	\$600 pa	1 year	Permanent residence in Australia and eligibility for admission to Year 4 or honours year of full-time Applied Science or Science Course in Geology or Geophysics
Chemical Engineering	·		
Shell Refining (Australia) Pty Ltd	\$300 pa plus \$100 book and equip- ment allowance		Eligibility for admission to the second year of the full-time course in Chemical Engineering
Dow Chemical (Australia)	\$500 pa	1 year renewable for the duration of	Permanent residence in Australia and eligibility for admission to the full-time degree course in Chemical Engineering
University of New South Wales Chemical Engineering Association	\$200 pa	to satisfactory progress	Eligibility for admission to the first or second year of the full-time degree course in Chemical Engineering
Western Mining Corporation†	\$1000 pa		Eligibility for admission to the second or later years of the full-time degree course in Chemical Engineering

\*Apply to The Secretary, Bursary Endowment Board, Box 460, PO, North Sydney 2060 immediately after sitting for HSC. †Applications close with the Registrar, 31 December.

Donor	Value	Year/s of Tenure	Conditions
Ceramic Engineering			
Australian Ceramic Society	\$600 pa	)	
Australian Consolidated Industries Ltd	\$600 pa		
The Brick Manufacturers' Association of New South Wales	\$900 pa	for the duration of the course subject to satisfactory progress	Permanent residence in Australia and eligibility for admission to the first or second year of the full-time degree course in Ceramic Engineering
Gallard & Robinson Pty Ltd	\$600 pa		
Harbison-ACI Pty Ltd	\$200 pa	2 years subject to satisfactory progress	Permanent residence in Australia and completion of the equivalent of the first two years of the Ceramic Engineer- ing course at the Wollongong University
The State Brickworks	\$900 pa	1 y≏ar renewable for the duration of the course subject to satisfactory	Permanent resident status in Australia and eligibility for admission to the first or second year of the full-time degree
Wunderlich Limited	\$6 <b>0</b> 0 pa	progress	course in Ceramic Engineering
Food Technology			
Alfa Laval Pty Ltd	\$4000 over 4 years	1 year renewable	Not more than 22 years of age on 1 December preceding the year in which the award commences and eligibility for admission to the full-time degree
Arnotts Biscuits Pty Ltd	\$1000 pa	> the course subject	course in Food Technology
Bush-Boake-Allen Pty Ltd	\$4000 over 4 years	to satisfactory progress	Permanent residence in Australia and eligibility for admission to the first year of the full-time degree course in Food
Coca-Cola Export Corporation	\$1000 pa	J	l
Food Technology Association	\$1000 pa	)	ſ
George Weston Foods Ltd	\$4000 over 4 years	1 year renewable	Not more than 22 years of age on 1
Gillespie/White Wings	\$1000 pa	the course, subject	the award commences and eligibility
Marrickville Holdings	\$1000 pa	to satisfactory	for admission to the full-time degree
Unilever Aust. Pty Ltd	\$40 <b>00 over</b> 4 years	progress	course in Food Technology L
Fuel Technology			
Australian Waste Disposal Conference Committee	\$300 pa	1 year with possi- bility of further extension subject	Permanent residence in Australia and eligibility for admission to the full-time degree course in Fuel Technology

to satisfactory progress

# Undergraduate Scholarships (continued)

Undergraduate Scholarships (continued)				
Donor	Value	Year/s of Tenure	Conditions	
Metallurgy				
CIG-EMF	\$600 pa		Eligibility for admission to the full-time degree course in Metallurgy	
School of Metallurgy	\$500 pa		Eligibility for admission to the first year of the full-time course in Metallurgy	
Western Mining Corporation*	\$1000 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Eligibility for admission to the first or second year of the full-time degree course in Metallurgy	
Mining Engineering		p 3,		
Stan Sawyer Memorial Scholarship to Coal Mining Students	\$200 pa		Eligibility for admission to the third or fourth year of the full-time degree course in Mining Engineering	
Western Mining Corporation*	\$1000 pa		Eligibility for admission to the second or later years of the full-time degree course in Mining Engineering	
Textile Technology The Australian Wool Corporation Bonds Industries Ltd Bradmill Industries Ltd	\$1000 pa \$4000 over 4 years \$1000 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Permanent residence in Australia and eligibility for admission to the full-time degree course in Textile Technology	
Wool and Pastoral Sciences				
The Australian Estates Co Ltd	\$1000 pa			
The Australian Wool Corporation	\$1000 pa			
Commercial Banking Company of Sydney Limited	\$1000 pa	1 year renewable for the duration of	Permanent residence in Australia an eligibility for admission to the full-tim degree course in Wool and Pastor Sciences	
Dalgety Australia Limited	\$4000 over 4 years	the course, subject to satisfactory progress		
Merck Sharp & Dohme (Aust) Pty Ltd	\$1000 pa			
National Council of Wool Selling Brokers of Australia	\$1000 pa			

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\*Applications close with the Registrar, 31 December.

Donor	Value	Year/s of Tenure	Conditions
<b>Biological Sciences</b>	<u></u>	······································	
<b>Biological Technology</b> Mauri Brothers & Thomson Ltd	\$1000 pa	1 year	Eligibility for admission to the honours year of the full-time degree course ir Biological Technology
Commerce			
CSR Ltd	\$1200 pa for 1st year; \$600 pa for 3rd and 4th year	1 year renewable for the duration of the course, subject to satisfactory progress	Eligibility for admission to the full-time course in Accounting and Financial Management, Economics, Econometrics, Marketing or Industrial Relations. The award is available for full-time study in first year, for part-time study in the second and third year while employed with the Company and for full-time study in the third and fourth years of the course.
Dalgety Australia Limited	\$4000 over 4 years	1 year renewable for the duration of	Permanent residence in Australia and eligibility for admission to the full-time degree course in Marketing
Manufacturers Mutual Insurance Limited	\$200 pa	the course, subject to satisfactory progress	Eligibility for admission to the full-time degree course in Accounting and Financial Management, Economics, Econometrics or Industrial Relations
Engineering			
The Regent Scholarship for Women	\$200 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Female students eligible for admission to the full-time Bachelor of Engineering course in either the Faculty of Applied Science or Faculty of Engineering
Electrical Engineering			
The Tyree Electrical Company Pty Ltd	\$500- <b>\$</b> 1500 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Eligibility for admission to the full-time degree course in Electrical Engineering

Undergraduate Scholarships (continued)			
Donor	Value	Year/s of Tenure	Conditions
Mechanical Engineering			
The Fox Manufacturing Company	\$1200 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Eligibility for admission to the full-time degree course in Mechanical Engi-
James Howden & Co Australia Pty Ltd	\$300 pa	1 year	
Surveying			
The Institution of Surveyors, NSW Division	\$250 per session	In parts 4, 5, 6 and 8 of the full-time course	Permanent residence in Australia and eligibility for admission to the full-time degree course in Surveying
<b>Medicine</b> The Claude H. Vautin Memorial Scholarship	\$250 pa	1 year renewable for the duration of the course, subject to satisfactory progress	Child of member or former member of Royal Australian Air Force undertaking the full-time degree course leading to the degrees of Bachelor of Medicine and Bachelor of Surgery
Science Mathematics			, 
Olivetti Australia Pty Ltd	\$600 pa	2 years subject to satisfactory progress	Eligibility for admission to third year of the full-time course leading to the degree of Bachelor of Arts or Bachelor of Science majoring in Mathematics or Statistics

Donor	Value	Year/s of Tenure	Conditions
Optometry			
The Australian Optometrical Association	\$250 pa for 1st year of the course \$500 pa for 2nd and later years of the course	rse of 1 year renewable for the duration of the course subject to satisfactory progress	Permanent residence in Australia and eligibility for admission to the full-time degree course in Optometry
The Australian Optometrical Association (NSW Division)	\$500 pa		Residents of NSW under the age of 21 who are eligible for admission to the
Gibb & Beeman (Spectacle Makers) Pty Ltd	\$500 pa		full-time degree course in Optometry
Optometric Associates Co-operative Limited	\$250 pa	1 year	Permanent residents of NSW intending to practise optometry in NSW who are eligible for admission to the fourth year of the full-time degree course in Opto- metry

### Undergraduate Scholarships (continued)

### **Graduate Scholarships**

Applications for scholarships should be made in triplicate on the required form, and sent to the Registrar by 31 October. Eligibility depends on such factors as the applicant holding an honours degree *or* equivalent qualification, *or* having relevant experience. Students completing the final year of a course may apply. Those under bond should disclose this fact. Awards are tenable for one year, and may be renewed for a maximum of two years for a Masters and 3 to 4 years for a PhD degree. Renewal each year is subject to satisfactory progress. Any exceptions from these requirements are indicated. Application forms and further information are available from the Student Employment and Scholarships Unit, which is located on the ground floor of the Chancellery. This Unit produces the booklet *Graduate Awards*, and also provides information on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

Where possible, the scholarships are listed in order of faculty.

## Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
General			
University of New South Wales Research Awards		1-2 years for a Masters and 3-4 years for a PhD degree	Applicants must be honours graduates (or equivalent)
Australian Government (Research Awards)	Living allowance of \$3250 pa. Other allowances	As above	Applicants must be honours graduates (or equivalent) or scholars who will graduate with honours in current academic year, and who are domiciled in Australia.
Australian Government (Course Awards)	may also be paid.	1-2 years; minimum duration of course	Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held an Australian Government Postgraduate Award. Applications to Registrar by 30 September.
Australian American Educational Foundation Travel Grant*	<b>,</b>		Applicants must be graduates, senior scholars or post-doctoral Fellows. Gradu- ate applications close 31 December. Other applications by mid-November.
Australian Federation of University Women	A total of \$500/\$3200	Up to 1 year	Applicants must be female graduates from any accredited Australian or overseas university
The British Council Commonwealth University Interchange Scheme	Cost of travel to UK or other Commonwealth country university		Applicants must be: 1. University staff on study leave. Applications close with Regis- trar by 30 November. For visits to com- mence during ensuing financial year 1 April to 31 March. 2. Graduate research workers holding research grants. Applications close with Registrar by 28 February for visits to commence during ensuing 1 April to 31 March.
Canadian Pacific Airlines Award for Travel to Canada for University Graduates	One free economy class return flight a year to Canada		Graduates of an Australian University who are Australian citizens or permanent resi- dents. Candidates must have been accepted by a Canadian University, be able to support themselves on a full-time basis, and intend to return to Australia. Applica- tions close with Registrar by 31 May.
Commonwealth Scholarship and Fellowship Plan	Varies for each country. Generally covers travel, living, tuition fees, books and equip- ment, approved medical expenses. Marriage allowance may be payable.	Usually 2 years, sometimes 3	Graduates who are Commonwealth citizens or British Protected Persons, and who are not older than 35 years af age. Applica- tions close with Registrar by 1 October.

\*Application forms are available from The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.

Donor	Value	Year/s of Tenure	Conditions
General (continued)		· · · · · · · · · · · · · · · · · · ·	
General Motors Holden's Research Fellowship	Living allowance and other allowances	Maximum of 3 years	Graduates qualified to undertake research program for Masters or PhD degree
Gowrie Graduate Research Travelling Scholarship	Maximum \$2000 pa	2 years	Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War
Harkness Fellowships of the Commonwealth Fund of New York*	Living and travel allowances, tuition and research expenses, book and equipment and other allowances	Between 12 to 21 months	Candidates must be either: 1. Members of the Commonwealth or a State Public Service or semi-government Authority. 2. Staff or graduate students at an Aus- tralian university. 3. Individuals recom- mended for nomination by the Local Cor- respondents. The candidate will usually have an honours degree and be between 21-30 years of age. Applications close 23 July.
IBM Graduate Scholarship Plan	A maximum of \$1200 pa	A maximum of 2 years for a degree of Master and 4 years for a PhD	Graduates must already hold a scholarship, such as an Australian Government Post- graduate Research Award and be studying computer science or its applications. Applications close with Registrar by 30 November.
Frank Knox Memorial Fellowships at Harvard University	Stipend of \$3400 plus tuition fees pa	2 years	Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian University
Nuffield Foundation Commonwealth Travelling Fellowships†	Approximately £2240 stg pa for married fellow and wife. Approxi- mately £1760 stg pa in other cases plus travelling costs.	1 year	Australian citizens usually between 25 and 35 who are graduates preferably with higher degrees and who have at least a year's teaching or research experience at a university. Applications close by Febru- ary.
The Rhodes Scholarship**	£1650 stg pa	2 years, may be extended for a third year	Unmarried male and female British sub- jects, between the ages 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in July each year.
Rothmans Fellowships Award‡	\$12000 pa	Up to 3 years	The field of study is unrestricted. Applica- tions close early September each year

## Graduate Scholarships (continued)

\*Application forms must be obtained from the Australian representative of the Fund, Mr L. T. Hinde, Reserve Bank of Australia, Box 3947, GPO, Sydney, NSW 2001. These must be submitted to the Registrar by 24 July.

† Applications to the Secretary, The Nuffield Foundation Australian Advisory Committee, Chemistry Laboratory, Barry Building, University of Melbourne, Parkville, Victoria 3052.

\*\*Applications to Mr H. McCredie, Secretary of the NSW Committee, University of Sydney, NSW 2006.

\$ Applications to The Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006.

Graduate Scholarships (continued)				
Donor	Value	Year/s of Tenure	Conditions	
Applied Science				
The Clean Air Society of Australia and New Zealand Scholarship in Environmental Pollution Control	\$600. May be held in conjunction with another award.	1 year full-time. At the Society's discretion it may be held for 2 years' part-time study.	Candidates must proceed to a Master of Applied Science degree in Environmenta Pollution Control in the School of Chemi- cal Engineering. They must hold a degree in an appropriate field of science, engin- eering or their equivalent. Applications close with the Registrar by 31 December	
Lever & Kitchen Pty Ltd Scholarship in Environmental Pollution Control	A maximum of \$2000	1 year full-time. Continuation dependent upon progress in each session.		
Australian Wool Corporation Research Scholarship in Textile Technology	\$3250 pa plus allowances	1 year subject to satisfactory pro- gress. Renewable annually; maximum tenure of 2 years	Applicants must be graduates in textile physics, textile chemistry, or textile engi- neering	
Australian Wool Corporation Research Scholarship in Wool and Pastoral Sciences		for a Masters candidate or 3 to 4 years for a PhD	Applicants must be graduates in applied science, agricultural science or veterinary science	
Australian Meat Research Committee Award*	\$3600 pa plus allowances	Minimum 2 years. Maximum 3 to 4 years.	Awarded for research into the beef and cattle industry leading to the Masters or PhD degree. Applications close by 31 July.	
Architecture				
The Master Builders' Association of NSW	\$500 (\$250 at commencement of each year)	2 years	Applicants must be graduates who have enrolled in the Master of Science (Building) Course	
Building Research Fellowship	\$4000 pa	3 years	Awarded for research in building science, construction, economics or related fields	
The Lindsay Robertson Memorial Travel Award	A maximum of \$1000	1 year	Candidates should be Landscape Archi- tecture graduates of the University of New South Wales. The award is to undertake full-time graduate study or research in Landscape Architecture at an approved overseas university or other approved overseas institution. Applications close 30 May.	
Arts, Commerce, Law				
Shell Scholarshin in Arts	£1750 sta na nius	2 vears	Applicants must be unmarried male	

#### Applicants must be dimarined, mate, British subjects, under 25 years of age, with at least 5 years domicile in Australia and who are completing a full-time course in Law or a full-time honours course for Bachelor of Arts or Commerce. The successful candidate will attend a British university to pursue an honours or higher degree. Applications close with the Registrar by 1 October.

\*Application forms from Executive Officer, Australian Meat Research Committee, Box 4129, GPO, Sydney 2001.

travelling expenses
Graduate	Scholarships	(continued)		
Donor		Value	Year/s of Tenure	Conditions
Australiar	n Graduate Sch	nool of Managemer	it	
Australian G (Course Awa	overnment ards)	Living allowance of \$3250 pa. Other allowances may also be payable.	2 years; normal duration of MBA or MPA course	Fifteen of the course awards for Masters Degrees are reserved for MBA or MPA candidates at the AGSM. Applicants must be graduates or scholars who will graduate in current academic year and who have not previously held an Australian Govern- ment Postgraduate Award. Applications should reach the Registrar by 30 Septem- ber but, in special conditions, late applica- tions may be considered if lodged before 30 November.
The Joseph Fellowship	S. Barling	]		
Harold G. C Memorial Fe	onde ellowship	See below under Eng	lineering	
Biologica	I Sciences			
Queen Eliza Postdoctoral in the Physic Biological S	beth II I Fellowships cal and ciences*	Stipend of \$13158 pa increased to \$14190 pa at age 28 years. \$500 pa for dependent wife, \$200 pa for each dependent child, plus other allow- ances.	2 years	Applicants must be Australian citizens or citizens of the UK and colonies ordinarily resident in the UK, who have gained a PhD or equivalent qualification in one of the physical or biological sciences. Usually applicants should be under 30 years of age. Applications close at the end of the first weeks in March and September.
Engineeri	ng			
Harold G. Co Fellowship	onde Memorial		1 year. Renewable up to 3 years.	Candidate should be honours graduate permanently domiciled in Australia. The Fellowship is for graduate study or re- search in a field related to the electricity industry.
Mobil Fellow Highway Eng	vship in gineering	\$3250 pa plus allowances	1 year	The successful candidate will undertake the degree of Master of Engineering Science in Highway Engineering. Further informa- tion: Professor D. Orchard, School of Highway Engineering, UNSW or Public Relations Officer, Mobil Oil Pty Ltd, ADC Building, 189 Kent Street, Sydney 2000.
University Fe in Highway I	ellowships Engineering		Course Work: 1 year. Research: 1 year, renewable.	The Fellowship enables scholars to com- plete a Master of Engineering Science Course in Highway Engineering, or alterna- tively undertake research leading to a Master of Engineering or PhD degree
Kenneth W. Fellowship	Craig Memorial		1 year	The Fellowship enables scholars to under- take the degree of Master of Engineering Science in the School of Nuclear Engi- neering

\*Applications obtainable from the Secretary, Queen Elizabeth Fellowships Committee, Department of Education, PO Box 826, Canberra, ACT 2600 or the Official Secretary, Australia House, Strand, London, W.C.2.

Donor	Value	Year/s of Tenure	Conditions
Engineering (continued	)		
Australian Institute of Nuclear Science and Engineering Studentships	Single students \$3500 pa. Married students \$4000 pa, \$300 for each dependent child, plus some University expenses.	1-3 years	Applicants must be graduates in Nuclear Science or Engineering. At least one quarter of the period of tenure must be spent at the Institute at Lucas Heights, NSW.
Australian Institute of Nuclear Science and Engineering Research Fellowship†	\$11500-\$14880 pa plus certain travel and supporting grants	Minimum of 2 years. Maximum of 3 years.	To enable graduates holding a PhD or similar qualification to undertake graduate work in Nuclear Science and Engineering
The Joseph S. Barling Fellowship	Not less than \$7000 less fees	Maximum of 3 years	Candidates should be electrical engineer- ing graduates of the University of New South Wales (in special circumstances mechanical and industrial engineering graduates may apply). The Fellowship is for full-time study for the award of the degree of Master of Business Administra- tion or Master of Public Administration at the University. Applications close 30 November.

Shell Scholarship in Science See below under Science and Engineering

## **Medicine**

Through the generosity of the following donors, the University receives grants-in-aid for research in medical and related fields to enable graduates to undertake graduate study and research for higher degree:

The National Health and Medical Research Council		Ápplications by: 30 June
National Heart Foundation of Australia		30 June
Life Insurance Medical Research Fund of Australia and New Zealand		1 July
The New South Wales State Cancer Council**	> \$8836-\$10144 pa 1 year renewable 5	24 August
The Asthma Foundation of New South Wales**		30 September
Sandoz Australia Pty Ltd Graduate Research Fellow- ship in Neurology**		To enable a suitable graduate to undertake a program of research in neurology
Merck, Sharp & Dohme (Aust) Pty Ltd Graduate Research Fellowship in Clinical Pharmacology.		To enable a suitable graduate to undertake research into clinical pharmacology
†Applications to The Registrar, or A **Applications to the Registrar.	INSE Private Mail Bag, Sutherland 2232.	

Donor	Value	Year/s of Tenure	Conditions	
Professional Studies				
Health Commission of New South Wales and the Hospitals and Charities Commission of Victoria*	\$3500 pa plus dependents' allow- ances and certain university expenses	2 years	A cadetship to enable graduates to qualify for the degree of Master of Health Administration. The holder is required to remain in hospital employment for 2 years after graduation. Applications by 31 July	
Science	····		•	
International Optical Corporation Contact Lens Research Scholarship	\$3000 pa		To enable a graduate in optometry, medi cine, or other appropriate discipline to undertake the degree of Master of Science or PhD in the Department of Optometry Applications to Registrar by 30 November	
Contavue Laboratories Contact Lens Graduate Research Scholarship	\$1000 pa	> 1 year renewable		
Hydron Laboratories Contact Lens Research Scholarship	j			
Science Research Scholarship of the Royal Commission for the Exhibition of 1851	£1200 stg pa	2 years. Renewal for further year possible.	To enable graduates under 26 years of age to undertake research in some branch of pure or applied science at an overseas university. Applicants must be British Commonwealth citizens or citizens of the Republic of Ireland or South Africa, who have done at least 3 years of a university Science Course.	
The Rutherford Scholarship	Travel, fees, etc. A stipend which, if held in the UK, is worth £1050-1500 stg pa	3 years	To enable graduates under 26 years of age, or if holding a PhD under 28 years, to undertake experimental research in a branch of natural science. It is tenable at a British Commonwealth University other than the country in which the applicant graduated.	
Shell Scholarship in Science and Engineering	£1750 stg pa plus travelling expenses	2 years	Applicants must be unmarried, male, British subjects, under 25 years of age, with at least 5 years domicile in Australia and who are graduates with at least 1 year's research experience. The success- ful candidate will undertake 2 years' graduate research leading to the MSc or PhD degree, at a British university.	

## Prizes

## **Undergraduate University Prizes**

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under 'General'. All other prizes are listed under the Faculty or Schools in which they are awarded.

Donor/Name of Prize	Value \$	Awarded for
Osmand		
General Sydney Technical College Union Award	50.00	Leadership in the development of student affairs.
Sydney reclinical Conege Onion Award	00.00	and academic proficiency throughout the course
University of New South Wales Alumni Association	Statuette	Achievement for community benefit — students in their final or graduating year
Faculty of Commerce		
University of New South Wales Commerce Society	50.00	Academic proficiency throughout the Commerce course and leadership in student activities
Faculty of Engineering		
The Dean's Faculty Hour	25.00	Best essay by a graduating student on a topic discussed in Faculty Hour
-	25.00	Best essay by a nongraduating student on a topic discussed in Faculty Hour
Faculty of Medicine		
Health Commission of New South Wales	50.00 50.00	79.111 Community Medicine and 79.112 Community Medicine
Medical Staff Association	100.00	General proficiency by a graduating student in the clinical years
Prince of Wales Hospital Ladies Auxiliary	100.00	General proficiency in Years 1 and 2 of the medical course
A. H. Robins	500.00	General proficiency and leadership — penultimate year
Wallace Wurth	200.00	General proficiency throughout the medical course
School of Accountancy		
Australian Society of Accountants	50.00	14.501 Accounting and Financial Management IA
	50.00	or
		14.532 Accounting and Financial Management IIA (Honours)
Chamber of Manufactures of New South Wales	15.00	14.703 Advanced Auditing

Donor/Name of Prize	Value \$	> Awarded for	Hand the first second of the
School of Accountancy (contin	nued)		School of Building
Corporate Affairs Commission	50.00	14.542 Accounting and	Financial, Management, IIB
Greenwood, Challoner & Co. ombiro	1 16 notation 25.00	CO14,742 Business Law I	lames Hautie & Co Phy Ltd I
Hungerfords	25.00	14.511 Accounting and	Financial Management IB,
les to 2 the set to 1 to	10198 810087 <b>25.00</b>	00े 14:593 Accounting and (Honours)	Financial Management IIIB
Larke Consolidated Industries Ltd	20.00	14.602 Information Sys	tems Lissimon 10, tondo?
Law Book Co Ltd generation a team extO as prineering	20,00 The indext Books	14.511 Accounting and	Financial Management IB
Taxation Institute of Australia	21.00	00 A Taxation Law	Bontos Chemical Co (Auro)
John Menzies McKellar White Memori	al 100.00	14.859/14.959G Advan	ced Studies in Taxation
Wilson Bros (Printers) Pty Ltd	25.00	14.583 Accounting and	Financial Management 1118
E.S. Wolfender Memorial SY as some	emphag # <b>20.00</b>	0014.563 Accounting and	Financial Management IIIA
Arthur, Young, & Coll gradening A. graden	simana ≦5 <b>50.00</b> ⊊o∃ dutoris∂	14.613 Business Finan	Simon-Cerves Australia II eo
anda n bank y Luc	antan inana	99 (H	the Mulli Share Gay Co Lto
The Prize In Practical Anatomy 1 inc.	00.0621 Chemic	Practical Anatomy (incl — Year 2 of the medic	uding Radiological Anatomy) al course
The Gray's Point Prize in Anatomy	50.00	Highest aggregate mai	k in Year 1 of Anatomy
The Winifred Dickes Rost Prize	<b>30.00</b>	Outstandin <b>g Therit (in</b> e) <sub>(A</sub> Science Course <u>Et L</u> an	Indiomy mainal year of the
	2 to total	<u>00.00</u>	Chemical Technology Suciet
School of Architecture same	S to retailor	QO(N)	
Board of Architects of New South Wal	es no li pr100.00	An outstanding gradua	and in the School of Archi-
i the Jisciphine of Industrial Cham	uetruv toogdaik Notaawa Nedeloo		bytimil H20
Byrne & Davidson (Mfg) Pty Ltd		11.121 History of Arch	ITECTURE I Used Augusta Barbard (Constant)
Chamber of Manufactures of New Sou Wales	ithadd bary 15.00	Subject selected by He	ad of School And And And
Frank Fox	100.00	11.8511 or 11.8521 His	torical Research
James Hardie & Co. Pty Ltd	00.001 30 Advan	00 General proficiency th course	roughout the BArch, degree
Frank W. Peplow	aago 8400 c <b>24.00</b>	00.00 Church Architecture	Abbeit Laboratorias Pty Ltu
Lindsay Robertson Memorial	remont0_10000	11.512 Landscape De	eenhipH LoimedO nadattaA sign II
Royal Australian Institute of Architects	s 50.00	Architectural Design a	ubul hetshelesured noderthe And allied subjects in last two
- tourt 8 to beet yours	tuolea tooldud	ecyears of BArch degree	Borden Charical Co <b>eziuco</b> :

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Best aggregate any five subjects offered by School of Botany tesubed account atom

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Undergraduate University Prizes (continued)			
Donor/Name of Prize	Value \$	Awarded for	
School of Building			
Byrne & Davidson Roll-a-door	100.00	Bachelor of Building, Year III	
James Hardie & Co Pty Ltd	50.00	Bachelor of Building, Year I	
Master Builders' Association of New South Wales	200.00	Subjects selected by Head of School	
School of Chemical Engineering			
Abbott Laboratories Pty Ltd	50.00	Bachelor of Engineering in Chemical Engineering — Year IV	
Borden Chemical Co (Aust) Pty Ltd	50.00	3.124 Chemical Engineering Design and Practice	
Chamber of Manufactures of New South Wales	15.00	Subject selected by Head of School	
Esso Australia Ltd	75.00	Best performance in Year 2 Chemical Engineering	
Simon-Carves Australia	21.00	3.122 Chemical Engineering, Thermodynamics and Reaction Engineering	
The North Shore Gas Co Ltd	10.50	Subject selected by Head of School	
The Shell Co of Aust Ltd	75.00	3.121 Chemical Engineering Principles II and 3.123 Chemical Engineering Design IA and IB	
School of Chemical Technology			
Australian Paper Manufacturers Ltd	21.00	Subject selected by Head of School	
Chemical Technology Society	20.00	Bachelor of Science in Industrial Chemistry	
	20.00	Bachelor of Science in Industrial Chemistry, Years I and II or Stages 3 to 4	
CSR Limited	30.00	Subject within the discipline of Industrial Chem- istry, selected by Head of School	
Stauffer Chemical Co (Aust) Pty Ltd	21.00	Subject selected by Head of School	
School of Chemistry			
Advanced Analytical Chemistry	100.00	2.013D Advanced Analytical Chemistry	
Abbott Laboratories Pty Ltd	50.00	2.003B Organic Chemistry II	
Australian Chemical Holdings Ltd	21.00	2.001 Chemistry I	
Australian Consolidated Industries Ltd	30.00	]	
Borden Chemical Co (Aust) Pty Ltd	50.00	Subject selected by Head of School	
Chamber of Manufactures of New South Wales	15.00		
CSR Chemicals Ltd	100.00	Chemistry Honours	
Inglis Hudson Bequest	6.00	2.002B Organic Chemistry I	

Undergraduate University Prizes (continued)			
Donor/Name of Prize	Value \$	Awarded for	
School of Chemistry (continued)			
Merck, Sharp & Dohme (Aust) Pty Ltd	52.50	Chemistry — Level 2 subjects in the Science Course	
	52.50	Chemistry — Level 3 subjects in the Science Course	
The Nestlé Co (Aust) Ltd	ر 50.00		
Parke Pope	20.00	Subject selected by Head of School	
Tooth & Co Ltd	20.00		
Unilever Aust Pty Ltd	21.00	2.003A Physical Chemistry II	
George Wright	20.00	Subject selected by Head of School	
School of Civil Engineering			
Australian Welding Institute	30.00	Best design using a welding process for students in Years 2, 3 or 4	
The Association of Consulting Structural Engineers of New South Wales	20.00 and books to the value of 30.00	General proficiency — Structures in the Bachelor of Engineering Course in Civil Engineering	
	20.00 and books to the value of 30.00	General proficiency — Structures in the Bachelor of Science (Engineering) Course in Civil Engi- neering	
Chamber of Manufactures of New South Wales	15.00	Subject selected by Head of School	
Department of Civil Engineering Materials Staff	50.00	Best aggregate marks in the subjects 8.273 Civil Engineering Materials II and 8.274 Civil Engineering Materials III	
Harbin Polytechnical Alumni Association 50.00 Subject selected by Head		Subject selected by Head of School	
Water Board Gold Medal	Medal	Public Health Engineering	
Wood Hall Ltd	100.00	Proficiency in Engineering Construction and Man- agement	
School of Drama			
Fourth Centenary Shakespeare	100.00	Essay on Snakespearean topic	
School of Economics			
Australian Finance Conference	25.00	15.083 Public Finance	
Brinds Ltd	100.00	15.013 Economics IIIA (Honours) and 15.033 Economics IIIB (Honours)	
Economic Society of Australia and New Zealand	15.00 and one year's membership of the Economic Society	Bachelor of Commerce in Economics, Final year	
The Statistical Society of Australia (New South Wales Branch)	20.00	General proficiency throughout the Bachelor of Commerce Course in Econometrics	

Undergraduate University P	rizes (continued)	rsity Prizes (continued)	Undergraduate Unive
Donor/Name of Prize	rot bac Value \$	8 eAwarded for	EN MAINE ERISTRY OF
School of Economics (continued of Economics (continued of Economics) (continued of Economics) and the Basel of Economics of the Economics of the Economics of the Economics of	ued) 96021,00 96021,00 0.1 (dam,21,00 660,21,00 21.00 21.00 21.00	(bouninco) 15.011 Economics IB 0:15.022 Economics IIB a 15.023 Economics IIIB 15.421 Quantitative Meth 15.004 Economics IVA au 00.05	School of Chemistry ( Werek Sharo & Domistry ( Will solmonozi 240.61 bna But solmonozi 410.61 bn Partie Pope
School of Electrical Engine	ering	00.00	Footh & Co Lt.
Austral Bronze Crane Copper ttd'0 i foodo3 to baeH vd b Chamber of Manufactures of New So Wales	ablevid9 A8(25.00 staalas tus[du8 25.00 puth 15.00	9 Bachelor of Engineering neering, Year III Power or Control elective Subject selected by Hea 2000	-tenest instant Benuon George Wright school of Chord Engli Australian Walding Josthylo
New South Wales New South Wales New Structures in the Bacherer Course in Civil Engineering J. Douglas Maclurcan The Wilfred Holmes Memorial Award course in Civil Engi-	Deneral profice General profice of Engineening 0.000 (Concerter of Concert the of Science (E of neoring	CANStudent eligible to e Of Electric Power Distribution Of Electric Power Distribution Ct aload hine sets 0.001 to support of Systems Of Aload course and who is dee 0.001 to subport of stances	puivalent part-time students including proficiency in on-sncO to no-taioossA artT W rhucS well to cression3 nter the final year of the med to be in necessitous
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Department of Food Techno	Cionias Ionid -8	Association ii0.00	Harbin Polytechnical Alumi
Engineering Construction and Man-	dheeff ork <u>20100</u> Netriciency In toeresso	on Science course in Food	throughout <sup>of</sup> Bachelor <sup>ore</sup> of Technology <sub>bt.1</sub> II.H. bocW
Department of Fuel Techno Institute of Fuel The Shell Co of Aust Ltd: DEGISOGO	<b>logy</b> 50.00 detičine ve <b>75.00</b>	For a fuel subject or alli	School <sup>tojo</sup> fframgo be Fourh Centanalooda2.to.b
School of German Goethe Institute	olidus 600Book Award	e ୦୦୧Proficiency in second <del>ye</del>	School of Economic Auchalian Financestudate
mice IIIA (Honours) and 15,033	Footal Lerno	00.001	bt!sbiia
School of Health Administra Rupert Famining Memorial Operation	et the control of the	G <sup>OBiac</sup> helor of Health Admin and one yea	Economic Society notistatin New Zealand
School of History	Joiety	Economic Sc	

The Ritchie Medal for Australian History a lever Medal Commerce Course in Franceica

CExcellence in Australiano History - withing the Bachelor of Arts Course to and sets Withow work

Undergraduate University Prizes (	continued)	Undergraduate University Prizes (continued)	
Donor/Name of Prize	unit Value \$	Awarded for enabled for enabled for	
School of Law Freehill, Hollingdale & Page Scotter Block of the Block of particular Sir Alan Taylor	50.00	Organization of Industrial Engineering General proficiency in four Business Law subjects Academic proficiency in subjects common to Year	
		T of courses leading to the LEB or BJuris degree was	
<u>ек и бедерение Соно, и Бодил.</u> Корк Хол И	erens Eller George	<u> </u>	
Lintas International Advertising noice to noi air gale Ennapoint Ich	1913 <b>250.00</b>	Bachelor of Commerce Course in Marketing 993 general proficiency throughout course	
Market Research Society of Australia	100.00	28.053 Information Management	
Philips Industries Holdings Ltd	50.00	28.012 Marketing SystemsaniaibcM to loodo2	
e v orozov polorena	71.111	bitto bittymed mischint (D. W	
School of Mathematics	£19 (03	0e 15	
iCI Australia Ltd	50.00	Theory of Statistics IV	
School of Mathematics	25.00 25.00 25.00 25.00 25.00	Higher Mathematics I vorullate M to loon of Metallurgy I show Australia U Higher Applied Mathematics II Higher Pure Mathematics III Higher Applied Mathematics III Higher Applied Mathematics III	
Statistical Society of Australia (New South Wales Branch)	20.00	General proficiency — Theory of Statistics subjects D) 00 00 shuttent — 20 00 00 00 00 00 00 00 00 00 00 00 00	
The Broken Hill Proprietary Co Ltd 50.00		Gethe Stoom Higher Theory of Statistics II	
W. D. & H. O. Wills (Aust) Ltd H ve betrades to	50.00	COld Provide the Cold of the Cold of the Cold of the Cold of Statistics III	
		The Browne Mit Proprietery Coll Hill 50 (A)	
School of Mechanical and Industri	ial Enginee	ring 00.00 stat Colty 20.00 state	
Atlas Copco	75.00	୍ଙ୍ପGéneral proficiencyିnଙ୍କBachelorିof Engineering course in Mechanical Engineering ଯାଏମରେଜ୍ୟ ତେହି	
Austral Crane Ltd	50.00	ିମିଆ-time Year III Mechanical Engineering ୧୬୦୦ ୯୦୦୯	
Babcock & Wilcox Aust Ltd	21.00	)	
Chamber of Manufactures of New South	15.00	School of Mising Engineering	
Wales is a chiral transient of the membrana to re- CSR Limited the set of the set of	ысла ад <b>30.00</b>	Subject selected by Head of School Large theory inter	
Ford Motor Co of Aust Ltd	20.00	C0 0-	
Harbin Polytechnical Alumni Association	50.00	5.113 Mechanical Engineering Design	
Jeremy Hirschhorn and community of the	20.00	Of Theory of Machines	
Royal Institution of Naval Architects	20.00	Bachelor of Engineering or Bachelor of Science	
ୁଖ୍ୟ ହାଣିମ୍ୟା ନାର୍ଥ୍ୟପତି ହାଇକେନ୍ମ୍ୟ ବିକ୍ରାର ଅକ୍ୟୁନ୍ମାର୍ଥ୍ୟରୁ ମହାରିଥିଲେ 'କେନ୍ମରି କାନ୍ Staedtler (Pacific) Pty Ltd	50.00 (order)	(Engineering) Course in Naval Architecture, final year or stage	

Undergraduate University Prizes	(continued)	
Donor/Name of Prize	Value \$	Awarded for
Department of Industrial Engineering		
Austral Crane Ltd	50.00	Bachelor of Engineering Course in Industrial Engineering, Year III
Chamber of Manufactures of New South Wales	10.00	Subject selected by Head of School
Industrial Engineering	25.00	Bachelor of Engineering Course in Industrial Engineering, Year IV
TRW Australia Ltd	20.00	Bachelor of Science (Engineering) Course in Industrial Engineering, Stage 6
School of Medicine		
W. G. Tellesson Memorial	31.50	71.111 Introductory Medicine and
	31.50	80.013 Clinical Studies III
School of Metallurgy		
Alcan Australia Ltd	50.00	]
Austral Crane Ltd	100.00	
Australian Institute of Metals	30.00	
Australian Welding Institute	20.00 (book order)	
Chamber of Manufactures of New South Wales	15.00	Subject selected by Head of School
The Broken Hill Proprietary Co Ltd	50.00	
The Eagle & Globe Steel Co Ltd	20.00	
The Electrolytic Refining and Smelting Co of Australia Ltd	20.00	
Zinc Corp Ltd	30.00	J
School of Mining Engineering		
Joint Coal Board	50.00	Bachelor of Engineering Course in Mining Engl- neering, Year II
	50.00	Bachelor of Engineering Course in Mining Engi neering, Year III
	100.00	Bachelor of Engineering Course in Mining Engineering — general proficiency throughout course
Southern Cross Exploration NL Award	100.00	Bachelor of Engineering Course in Mining Engl
Western Mining Corporation Ltd	75.00	heering — General proficiency throughout th course

Undergraduate University Prizes (continued)				
Donor/Name of Prize	Value \$	Awarded for		
School of Obstetrics and Gynaeco	ology			
F. J. Browne Memorial	50.00	Final written and practical examinations in Obstetrics and Gynaecology		
Gordon Lowe Memorial	50.00	Clinical and oral examinations in Obstetrics and Gynaecology		
School of Optometry				
Australian Optometrical Association	30.00	<b>)</b> .		
Chamber of Manufactures of New South Wales	10.00	Subject selected by Head of School		
Cocks & Halls	10.50	J		
Bausch & Lomb Soflens	Diagnostic set of contact lenses	31.841 Clinical Optometry		
Contavue Laboratories Pty Ltd	Trial fitting set of contact lenses	Subject selected by Head of School		
Filmer Sceats	25.00	31.812 Optometry II		
Hoya Australia Pty Ltd	250.00	Highest aggregate academic record in the Optometry Course		
International Optical Corporation Ltd	21.00 21.00	Subject selected by Head of School		
L. G. Darcey Memorial	25.00	31.811 Optometry I		
Theo Kannis	250.00	31.841 Clinical Optometry		
Martin Wells Pty Ltd	30.00	31.821 Special Anatomy and Physiology		
	50.00	31.831 Diseases of the Eye		
	30.00	Final Year Essay		
G. Nissel & Co Aust Pty Ltd	Trial fitting set of contact lenses	31.813 Optometry III and 31.841 Clinical Optometry — Contact Lenses sections		
Optical Products Pty Ltd	21.00			
Opticians and Optometrists' Association of NSW	25.00	Subject selected by Head of School		
The Optometric Vision Research Foundation	100.00	Research project		
Vision Care	25.00	Orthoptics section of 31.841 Clinical Optometry		

School	of	Paediatrics
<b>~~</b>	••	

**Paediatrics Staff Prize** 

Undergraduate University Prizes	(continued) (b	ly Prizes (continuo	Undergreduale Universit
Donor/Name of Prize	bob Value \$	8 Awarded for	ອາດຊີ 10 ສານ 11 ການນີ້
School of Physics		unalagangua d	school of Obstatica or
Head of School's Prize in Physics	20.00	Area selected by He	ad of School up to toonse
Physics Staffeska locitating pea astrow	60.00	<sup>OO</sup> Physics III	(anomald anarow 4)
Physics Thesis Prize bnr. 2019tattO ni aneltanimaxa leto bns School Prize for Physics II yoolo	40.00 (abin10) (abin40)	Physics IV 00.0 : Physics II	Gersten Lawe Manned
School of Political Science			
Australian Institute of Political Science	40.00	Political Science Sta	School of Optometry I age
	subscription to t	he <sub>00.02</sub> вол	Austiclian Optometrical Associa
	'Australian Quarterly'	w South 10.00	Chamber of Manufactures of Ne
salacted by Head of School	13013800	Political Science St	Wated
Staff of the School of Political Science	30.00	()3 91 Dest_dispertation_or	Oceks & Halls ni soiget to piget legitilen e
The Griffin Prize in Political Science	75.00 TNS TO THE OIL	equethe Faculty of Arts	Bausch & Lomb Sofiens
The Shell Co of Aust Ltd	75.00 cosnet	Distinguished performance	mance in the Political Science
selected by Head of School	ng set Subject	Course	Contavue Laboratories Fty Ltd
The Sydney Morning Herald	ct lenses 00.001	atric Political Science St	age III or IV
Optiomatry II	<u></u>	25.60	Filmer Soeats
School of Psychiatrys aggregate John Kerridge Memorial	Highest <b>00.03</b> 0me	00 03ର Psychiatry	Hoya Australia Pty Ltd
		011d 21.00	International Optical Corporation
School of Psychology	toelans J	21.00	
Psychology Staff Prize LydomoteO	00.01811	GUESS Psychology Ye	L G Darcey Memorial II a
Australian Psychological Society	Free student Subscribership	Psychology Year II	Theo Kannis (sbrawa owt)
Special Anatomy and Physiology	Proof the Australian	00.00	Martin Wells Pty Ltd
Diseases of the Eye	188Society for two	60.00	
ar Essay	or lears	00.02	
Dutemetry III and 31 841 Olivical Ostemular	10 Set 31.613 (	Trial Mil	G. Nissei & Co Aust Pty Ltd
School of Surgeryanoitoes sections	of lenses - Contr	of contai	
Australian College of Ophthalmologists	50.00	Essay on Ophthalm	Optical Products Pty Lid Isoigolo
selected by Surgery ed babalast	100.00	Surgery — Final Ye 00.35 noteico	na Caticians and Optometrists' Ass MSW
h project School of Surveying Board of Surveying Isban Storetry cs section of 31.841 Clinical Optometry	Noceare Medal Medal	Foundation 100.00 iversition to a second	The Optometric Vision Research rase Isan Final Year Vision Oare
School of Textile Technology	<u>.                                    </u>		
J. B. Speakman	20.00	Undergraduate thes	is pointelbood to teader
R. J. Webster	100.00 Nabos9	General proficiency 00 Science Course in	y throughout the Bachelor of Textile Technology 3 sociatrics

Undergraduate University Prizes (continued)				
Donor/Name of Prize	Value \$	Awarded for		
School of Town Planning				
The NSW Planning and Environment Commission	150.00	Bachelor of Town Planning, Year V		
Royal Aust Planning Institute, NSW Division	100.00	Bachelor of Town Planning, Year III		
School of Wool and Pastoral Sc	ciences			
Bayer Australia Ltd-Auntol Sheep Dips	50.00	General proficiency — Wool and Pastoral Sciences Course, Years II and III		
Parkes Wool Promotion Committee	A shield held in the School of Wool and Pastoral Sciences on which the suc- cessful student's name is engraved each year.	Bachelor of Science Course in Wool and Pastoral Sciences, Year III		
Samuel Clive Graham	50.00	Bachelor of Science Course in Wool and Pastoral Sciences, Year IV — Thesis		

## **Graduate University Prizes**

The following table summarizes the graduate prizes awarded by the University.

## General

The Thistlethwayte Memorial Prize	100.00	Best essay in the field of water — waste water treatment or water quality management, by MEngSc, MAppSc, ME, MSc student
Faculty of Medicine		
Foundation for Research and Treatment of Alcoholism and Drug Dependence of New South Wales	100.00	Essay on a clinical or scientific aspect of alco- holism or a drug of dependence

Graduate University Prizes (continued)				
Donor/Name of Prize	Value \$	Awarded for		
School of Accountancy				
Arthur Andersen & Co	50.00	14.960G Corporate Organization and Strategy		
Slazengers (Aust) Pty Ltd	25.00	14.955G Financial Management		
School of Building				
Alex Rigby	105.00	Master of Science (Building) — Distinguished graduate		
Graduate School of Business				
Australian Finance Conference	25.00	33.314G Finance I and 33.317G Finance II		
Ploneer Concrete Services Ltd	42.00	33.306G Quantitative Analysis in Business I and 33.313G Quantitative Analysis in Business II		
John Storey Memorial	25.00	Master of Business Administration, Year 2		
School of Chemical Engineering				
The Clean Air Society of Australia and New Zealand	100.00	3.391G Atmospheric Pollution and Control, or a subject of an equivalent nature, taken by students in graduate courses in the School of Chemical Engineering.		
School of Education	· · · · · · · · · · · · · · · · · · ·			
New South Wales Institute for Educational Research	25.00	General proficiency in educational research		
New South Wales Department of Education	32.00	Outstanding ability in both academic studies and practice teaching		
School of Highway Engineering				
Wabco Aust Pty Ltd	300.00	Most distinguished graduate in the Master of Engineering Science in Highway Engineering		
School of Optometry				
Hydron Manufacturing Pty Ltd	A trial fitting set of contact lens	31.705G Advanced Contact Lens Theory and Practice		
Theo Kannis	250.00	31.701G Advanced Clinical Optometry		

## School of Transportation and Traffic

Veteran Motorists of Australia 20.00 Traffic Planning and Control

## **Rules and Procedures**

The University, in common with other large organizations, has established rules and procedures, which are designed for the benefit of all members of the University. In some cases there are penalties (eg fines or exclusion from examinations) for non-compliance. Therefore, any student who after reading the rules carefully requires further information on their application should contact the Admissions Office or the Registrar.

## **General Conduct**

The University has not considered it necessary to formulate a detailed code of rules relating to the general conduct of students. However, enrolment as a student of the University involves an undertaking to observe the regulations, by-laws and rules of the University, and to pay due regard to any instructions given by any officer of the University.

#### Appeals

Section 5(c) of Chapter III of the By-laws provides that 'Any person affected by a decision of any member of the Professorial Board (other than the Vice-Chancellor) in respect of breach of discipline or misconduct may appeal to the Vice-Chancellor, and in the case of disciplinary action by the Vice-Chancellor, whether on appeal or otherwise, to the Council'.

## **Admissions Office**

The Admissions Office, located in the Chancellery on the upper campus, provides information for students on admission requirements, undergraduate and graduate courses and enrolment procedures. The Admissions Office is open from 9 am to 5 pm Monday to Friday (excluding the lunch hour 1 pm to 2 pm). During enrolment the office is also open for some part of the evening.

Applications for special admission, admission with advanced standing and from persons relying for admission on overseas qualifications should be lodged with this office. The Office also receives applications from students who wish to transfer from one course to another, resume their studies after an absence of twelve months or more, or seek any concession in relation to a course in which they are enrolled. It is essential that the closing dates for lodgment of applications are adhered to. For further details see the section on Undergraduate and Graduate Enrolment Procedure and Fees.

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 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 first consult 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 School, refers the application to the appropriate Faculty or Board of Studies Higher Degree Committee. Details of the procedure to be followed by students seeking entry to first year courses at the University may be obtained from the Admissions Office or the Metropolitan Universities Admissions Centre.

An Adviser for Prospective Students, Mrs Fay Lindsay is located in the Chancellery, and is available for personal interview with students who may require additional information about the University.

#### First Year Entry

Those seeking entry to first year courses in one or more of the three universities in the Sydney Metropolitan area (Macquarie University, the University of New South Wales and the University of Sydney) are required to lodge a single application form with the Metropolitan Universities Admissions Centre, First Floor, 29-37 Bellevue Street, Surry Hills (off Foveaux Street near Central Railway), (PO Box 7049, GPO Sydney 2001). On the application form provision is made for applicants to indicate preferences for courses available in any one of the three Universities. Students are notified individually of the result of their applications and provided with information regarding the procedures to be followed in order to accept the offer of a place at this University. Enrolment is completed at the Enrolment Bureau. Unisearch House, 221 Anzac Parade, Kensington.

#### **Deferment of Enrolment**

The University normally grants deferments of one year to students proceeding directly from school to university providing they are not intending to enrol at another tertiary institution.

## **Admission Requirements**

A candidate for any degree of Bachelor of the University must have qualified for matriculation and have satisfied the requirements for admission to the particular Faculty, course or subject chosen.

In addition to complying with these conditions, candidates must be selected before being permitted to enrol in a course. In 1977 it is necessary for the University to limit the number of students enrolling in all undergraduate courses.

#### **Requirements for entrance in 1977**

Beginning in 1977\* the University's requirements for matriculation for students who rely on performance in the New South Wales Higher School Certificate will change.

#### Special assistance for Aboriginal students

The University may admit suitably qualified persons of Aboriginal descent outside of any quota restrictions.

Upon receipt of an application under this provision, the University will assess the applicant's potential to cope with University studies, and will make Student Counsellors available to discuss the choice of a course and subsequent career opportunities.

All enquiries relating to this scheme should be directed to the Deputy Registrar (Student Services), Room 148A, the Chancellery.

#### Matriculated student

A candidate who has satisfied the conditions for matriculation and for admission to a course of study shall be classed as a 'matriculated student' of the University, after enrolment.

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 fee.

# Matriculation and Admission Requirements for Entry in 1977 and 1978

## **Bachelor Degree Courses**

#### Requirements for Entry in 1977 and 1978 in terms of the NSW Higher School Certificate Examination (amended April 1976).

#### Matriculation

Matriculation is the minimum educational qualification necessary for entry to a bachelor degree course in the University **but it does not** ensure admission to a course. For students who are candidates for the New South Wales Higher School Certificate examination in 1977:

Matriculation to the University of New South Wales shall be the achievement of a minimum aggregate of marks equivalent to the aggregate attained or bettered by 58 percent of the school candidates at the Higher School Certificate examination and made up of marks in the best ten units from a minimum of four approved subjects<sup>\*</sup>, including at least two units of English.

\*Provided that not more than two units from 2 Unit A and 1 unit courses may be counted, except that where English 2 Unit A is included one or two additional units from 2 Unit A and 1 unit courses may be included.

Subjects approved by the Professorial Board:

Agriculture	Home Science†
Ancient History	Indonesian
Art	Industrial Arts
Chinese	Italian
Classical Greek	Japanese
Dutch	Latin
Economics	Mathematics
English	Modern Greek
French	Modern History
Food and Textile Science†	Music
General Studies	Russian
Geography	Science
German	Spanish
Hebrew	Textiles and Design

#### Admission to a Course

Admission to all courses is subject to selection on the basis of academic performance. To gain admission to a particular course a student must:

1. have matriculated;

2. have been selected on an aggregate of marks. The units to be used in making up the selection aggregate will be the candidate's best ten units in approved subjects\*, not necessarily including English.

\*Provided that not more than two units from 2 Unit A and 1 unit courses may be counted, *except that* where English 2 Unit A is included one or two additional units from 2 Unit A and 1 unit courses may be included.

## Students who Complete Three Unit or Four Unit Courses

Special consideration may be given to students who do not meet the matriculation or selection requirements set out above but who have completed one or more 3 unit or 4 unit courses.

\*See following pages for 1977 and 1978 Matriculation and Admission requirements.

†Only one of these subjects may be counted for matriculation and selection purposes.

#### Schedule of Prerequisites

The subjects of the various degree courses that have prescribed prerequisites in terms of Higher School Certificate subjects are set out in **Schedule B** which also lists the grade required in each case.

The grade achieved (1, 2, 3, 4 or 5) in a particular subject at the Higher School Certificate examination will determine whether a student will be permitted to enrol in certain specified subjects at the University, as set out in **Schedule B.** 

Many of the subjects of degree courses are taught assuming that students will have achieved a minimum standard of preparedness and accordingly have as prerequisites certain levels of achievement (grades) in Higher School Certificate examination subjects; for example the University subject 50.511 English IA requires a grade of 1, 2 or 3 in either 2 or 3 unit English at the Higher School Certificate examination.

Some degree courses contain compulsory subjects that have prerequisites; for example, the Science and Mathematics course has a compulsory subject Mathematics I or IT which has the prerequisite of 2, 3 or 4 unit Mathematics at an acceptable level of achievement (see **Schedule B**). Other courses, for example Arts, have no compulsory subjects but include as electives some subjects (for example, English) which have prerequisites.

The compulsory subjects of the various degree courses • which have prerequisites based on the Higher School Certificate subjects are set out in **Schedule A**.

#### Schedule A

List of Courses indicating Compulsory Subjects which have Higher School Certificate examination Prerequisites.

A student who is proposing to enter a particular degree course should refer to **Schedule A**, note the compulsory subjects if any, and refer to **Schedule B** to ascertain the prerequisites for those subjects and for other subjects which can be taken as electives in the chosen course.

	Full-Time	
Course	Part-Time	Subject Identifying Number
Architecture	FT or PT	Nil
Accounting, Finance and Systems	FT or PT	14.522, 14.542, 15.411 or 10.001
Arts	FT	Nil
Building	FT	Nil
Ceramics	PT	1.001, 2.001, 5.010, 10.001
Chemistry—Industrial	FT or PT	1.001, 2.001, 10.001, 5.010 or 25.011 or 17.011 and 17.021

	Full-Time	
Course	Part-Time	Subject Identifying Number
Chemistry—Pure and Applied	FT or PT	1.001, 2.001, 10.001 or 10.021, 5.010 or 25.011, or 17.011 and 17.021
Economics	FT or PT	15.002, 15.022, 15.042, 15.411 <i>or</i> 10.001
Econometrics	FT or PT	15.411 or 10.001
Economics and Econometrics	FT or PT	15.012, 15.052, 15.411 or 10.001
Economic History	FT or PT	15.411 or 10.001
Engineering Aeronautical	FT or PT	1.001, 5.010, 10.001
EngineeringCeramic	FT	1.001, 2.001, 5.010, 10.001
Engineering—Chemical	FT or PT	1.001, 2.001, 5.010, 10.001
Engineering-Civil	FT or PT	1.001, 5.010, 10.001
EngineeringElectrical	FT or PT	1.001, 2.001 or 5.010, 10.001
Engineering-Industrial	FT or PT	1.001, 5.010, 10.001
EngineeringMechanical	FT or PT	1.001, 5.010, 10.001
Engineering—Mining	FT	1.001, 2.001, 5.010, 10.001
Engineering—Mining (Broken Hill only)	PT	1.001, 2.001, 5.010, 10.001
Food Technology	FT or PT	1.001, 2.001, 10.001, 17.011, 17.021
Geography—Applied Applied Economic Geography Option	FT	10.001 or 10.021, 15.002, 15.022 or 15.042, 27.011
Biogeography and Bioclimatology Option	FŤ	1.001, 2.001, 10.001 or 10.021, 17.011, 17.021, 27.001, 27.011
Geomorphology and Pedology Option	FT	1.001, 2.001, 10.001 or 10.021, 25.011, 27.001, 27.011
GeologyApplied	FT	1.001, 2.001, 10.001, 25.011
Health Administration	FT <i>or</i> PT(Ext.)	Nil
Industrial Arts	FT	1.001, 2.001, 5.010, 10.001
Industrial Relations	FT or PT	15.411 or 10.001
Jurisprudence	FT	Nil
Landscape Architecture	FT	Nil
Law	PT	Nil
Law/Arts	FT	Nil
Law/Commerce (Accounting, Finance and Systems)	FT	14.522, 14.542, 15.411 or 10.001
Law/Commerce (Economics)	FT	15.002, 15.022, 15.042, 15.411 or 10.001
Law/Commerce (Industrial Relations)	FT	15.411 or 10.001
Law/Jurisprudence	FT	Nil
Law/Science	FT	10.001 or 10.021
Marketing	FT or PT	15.411 or 10.001
Medicine	FT	Nil
Metallurgical Process Engineering	FT	1.001, 10.001, 5.010

Course	Full-Time Part-Time	Subject Identifying Number
Metallurgy	FT or PT	1.001, 2.001, 10.001, 5.010 or 25.011
Mineral Processing (Broken Hill only)	PT	1.001, 2.001, 5.010, 10.001
Naval Architecture	FT or PT	1.001, 5.010, 10.001
Optometry	FT	1.001, 2.001, 10.001 or 10.021, 17.011, 17.021
Psychology	FT	10.001 or 10.021 or 17.011 and 17.021
Science and Mathematics	FT or PT	10.001 or 10.021
Science Diploma in Education		
Mathematics Education Science Education	FT FT	10.001 or 10.011 1.001, 2.121, 2.131, 10.001 or 10.011 or 10.021, 17.011, 17.021, 25.011
Social Work	FT	Nil
Surveying	FT or PT	1.001, 5.010, 10.001
Textile Technology	FT	1.001, 2.001, 5.010, 10.001
Town Planning	FT	Nil
Wool and Pastoral Sciences	FT	2.001, 10.001 or 10.021, 17.011, 17.021, 1.001 or 27.001
Wool and Pastoral Sciences (Education Option)	FT	2.001, 10.001 or 10.021, 17.011, 17.021, 1.001 or 27.001

Note: The University's Faculty of Military Studies provides degree courses in Arts, Engineering and Science at the Royal Military College, Duntroon. These courses may have different prerequisite requirements from those operating for similar courses elsewhere in the University. Full details may be obtained from the Registrar or from the College.

## **Schedule B**

#### Subject Prerequisites and Grades Required

A student who is proposing to enter a particular degree course should refer to **Schedule A**, note the compulsory subjects if any, and refer to **Schedule B** to ascertain the prerequisites for those subjects and for other subjects which can be taken as electives in the chosen course.

University Subject		Prerequisite	Grade Required
1.011	Higher Physics I	2 unit Mathematics or	1 or 2
1.001	Physics It	3 unit Mathematics or	1, 2 or 3
		4 unit Mathematics and	1, 2, 3, 4 or 5††
		2 unit Science (incl. Physics and/or Chem.) or	1, 2 or 3
		4 unit Science (incl. Physics and/or Chem.	1, 2 or 3

Universi	ty Subject	Prerequisite	Required
2.001 (	Chemistry I‡	2 unit Science (any strands) or	1, 2 or 3
		4 unit Science (any strands)	1, 2 or 3
5.010	Engineering IA§	Either	
		2 unit Science (incl. Physics) or	1, 2 or 3
		4 unit Science (incl. Physics)	1, 2, 3 or 4
			4 9 9
		2 unit Industrial Arts or 3 unit Industrial Arts	1, 2 or 3 1, 2, 3 or 4
10.011	Higher Mathe- matics I	3 unit Mathematics or 4 unit Mathematics	1 or 2 1, 2, 3, 4 or 5††
10.001	Mathematics I	2 unit Mathematics or	1 or 2
10.021	Mathematics IT	3 unit Mathematics or 4 unit Mathematics	1, 2 or 3 1, 2, 3, 4 or 5††
14.522	Acctg. and Fin. Man. IIA	2 unit Mathematics or	1, 2 or 3
14.532	Acctg. and Fin. Man. IIA (Hons)	3 unit Mathematics or 4 unit Mathematics	1, 2, 3 or 4 1, 2, 3 or 4
14.542	Acctg. and Fin. Man. IIB		
14.552	Acctg. and Fin. Man. IIB (Hons)		
15.002	Economics IIA	2 unit Mathematics or	1, 2 or 3
15.012	Economics IIA (Hons)	3 unit Mathematics or	1, 2, 3 or 4
15.022 15.032	Economics IIB Economics IIB (Hons)	4 unit Mathematics	1, 2, 3 or 4
15.042 15.052	Economics IIC Economics IIC		
15 273	Economice IIIE		
15.411	Quant. Methods	A	
17.011	Biology of Mankind‡	2 unit Science (any strands) or	1, 2 or 3
17.021	Comp. Funct. Biology‡	4 unit Science (any strands)	1, 2 or 3
25.011	Geology I‡	2 unit Science (any	1, 2 or 3
25.151	Geoscience IA‡	strands) or 4 unit Science (any strands)	1, 2 or 3
07.001	Applied	Quait Coography or	1
21.001	Physical Geography I	3 unit Geography of or	1, 2 or 3
		2 unit Science (any strands) or	1, 2 or 3
		4 unit Science (any strands) or	1, 2 or 3
		2 unit Mathematics or	1 or 2
		3 unit Mathematics or	1, 2 or 3
		4 unit Mathematics	1, 2, 3 or 4

University Subject		Prerequisite	Grade Required	
27.011	Applied Economic Geography I	2 unit Geography or 3 unit Geography or	1 or 2 1, 2 or 3	
		2 unit Economics or 3 unit Economics or	1 or 2 1, 2 or 3	
		2 unit Mathematics or 3 unit Mathematics or 4 unit Mathematics	1 or 2 1, 2 or 3 1, 2, 3 or 4	
50.511 50.521	English IA English IB	2 unit English or 3 unit English	1, 2 or 3 1, 2 or 3	
56.511 56.521	Contemporary French Lang., Lit. and Civilization‡ French Language‡	2 unit French or 3 unit French	1, 2 or 3 1, 2, 3 or 4	
59.511	Russian IB‡	2 unit Russian or 3 unit Russian	1, 2 or 3 1, 2 or 3	
64.511 64.521	German 1B‡ German 1C‡	2 unit A German or 2 unit German or 3 unit German	1 or 2 1, 2 or 3 1, 2 or 3	
65.511	Spanish & Latin American Studies IB‡	2 unit Spanish or 3 unit Spanish	1, 2 or 3 1, 2, 3 or 4	
65.521	Spanish & Latin American Studies IC‡	2 unit A Spanish	1 or 2	

\*An alternative subject is available that will enable students to make up for the lack of the prerequisite. It will count towards the degree. t†Grade 5 at a standard acceptable to the Professorial Board.

Students who wish to enrol in this subject in courses other than the full-time courses in Aeronautical Engineering, Civil Engineering, Industrial Engineering, Mechanical Engineering and Naval Architecture can make up for the lack of the prerequisite by work taken in Physics in the first half of first year.

## Section B

## Supplementary Provisions for Matriculation

**1.** Notwithstanding the provisions of Section A above, candidates may be accepted as 'matriculated students' of the University under the following conditions subject to the approval of the Professorial Board:

A Any person who holds a diploma from the New South Wales Department of Technical Education, or any other Technical College which may from time to time be recognized by the University, may be admitted to the University as a 'matriculated student' with such status as the Board may determine, provided that, in the opinion of the Board, the applicant's qualifications are sufficient for matriculation to the Faculty nominated.

B The Board may admit as a 'matriculated student' in any Faculty with such status as the Board may determine in the circumstances: 1. A graduate of any approved university.

2. An applicant who presents a certificate from a University showing that he has a satisfactory record and is qualified for entrance to that university, provided that in the opinion of the Board there is an acceptable correspondence between the qualifying conditions relied upon by the applicant and conditions laid down for matriculation to the nominated Faculty of the University of New South Wales.

C 1. Any person who, not being a student in the Faculty of Military Studies of the University, completed the first year of a course at the Royal Military College of Australia and submits a certificate from the Registrar of the College to that effect may be admitted as a 'matriculated student' of the University.

2. Any person who, not being a student in the Faculty of Military Studies of the University completed at least three years of a course of prescribed study at the Royal Military College of Australia and submits a certificate from the Registrar of the College to that effect may be admitted as a 'matriculated student' of the University with such status as the Board may determine.

D Any person who has completed satisfactorlly the passing out examination of the Royal Australian Naval College and submits a certificate from the Commanding Officer may be admitted as a 'matriculated student' of the University.

E 1. Any person who has completed the first year of the course at the Royal Australian Air Force College and submits a certificate from the Commandant to that effect, may be admitted as a 'matriculated student' of the University.

2. Any person who has completed two years of the course at the Royal Australian Air Force College and submits a certificate from the Commandant to that effect, may be admitted as a 'matriculated student' of the University with such status as the Board may determine.

F An applicant who presents a certificate from another university showing that he is qualified for entrance to that university and setting out the grounds of such qualification, provided that in the opinion of the Professorial Board there is an acceptable correspondence between the qualifying conditions relied upon by the applicant and the conditions laid down for matriculation to the nominated Faculty of the University of New South Wales.

2. A The Professorial Board may in special cases, including cases concerning persons of other than Australian education, declare any person qualified to enter a Faculty as a 'provisionally matriculated student'\* although he has not complied with the requirements set out above, and in so doing may prescribe the completion of certain requirements before confirming the person's standing as a 'matriculated student'. Students who satisfactorily complete these requirements will be permitted to count the courses so passed as qualifying for degree purposes. B Persons over the age of twenty-five years may be admitted to provisional matriculation status provided that:

1. they have satisfactorily completed an approved course of systematic study extending over at least three years after passing the School Certificate Examination, or

2. they satisfy the Professorial Board that they have reached a standard of education sufficient to enable them profitably to pursue the first year of the proposed course.

C Any applicant for provisional status may be required to take such examination as the Professorial Board may prescribe before such status is granted.

**3.** The Professorial Board may at its discretion permit a person, who does not satisfy the requirements for admission, to attend lectures in a subject or subjects at the University, on payment of the prescribed fees provided that such person shall not necessarily have the privileges of 'matriculated students' and shall not be eligible to proceed to a degree.

# Supplementary Matriculation and Selection Provisions

There are supplementary provisions allowing for persons in special categories being accepted and selected as *matriculated students* of the University. Information on these supplementary provisions may be obtained from the Registrar.

## Undergraduate and Graduate Enrolment Procedures and Fees

## 1. Introduction

All students, except those enrolling in graduate research degrees (see sections 5. and 6. below), must lodge an authorized enrolment form with the Cashier on the day the enrolling officer signs the form or on the day their General Studies electives are approved if their course requires this.

All students, except those enrolling in graduate research degrees and those exempted as set out in section **17**. below, should on that day also either pay the required fees or lodge an enrolment voucher or other appropriate authority.

Such vouchers and authorities are generally issued by the NSW Department of Education and the NSW Public Service. They are not always issued in time and students who expect to receive an enrolment voucher or other appropriate authority but have not done so must pay the fees and arrange a refund later. Such vouchers and authorities are not the responsibility of the University and their late receipt is not to be assumed as automatically exempting a student from the requirements of enrolling and paying fees.

If a student is unable to pay the fees the enrolment form must still be lodged with the Cashier and the student will be issued with a 'nil' receipt. The student is then indebted to the University and must pay the fees by the end of the second week of the Session for which enrolment is being effected. Penalties apply if fees are paid after that time (see below). Payment may be made through the mail, in which case it is important that the student registration number be given accurately.

## 2. New Undergraduate Enrolments

Persons who are applying for entry in 1977 must lodge an application for selection with the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 1 October 1976.

Those who are selected will be required to complete enrolment at a specified appointment time before the start of Session 1. Compulsory fees must be paid on the day of the appointment. In special circumstances, however, and provided class places are still available, students may be allowed to complete enrolment after the prescribed weak, subject to the payment of a penalty (see below).

Application forms and details of the application procedures may be obtained from the Admissions Office.

## 3. First Year Repeat Students

First year students who failed more than half the program at the 1976 Annual Examinations and who were not granted any deferred examinations should NOT follow the above procedure. They are required to show cause why they should be allowed to continue in the course, and should await instructions in writing from the Registrar as to the procedure.

## 4. Later Year Enrolments

Students should enrol through the appropriate School in accordance with the procedures set out in the current year's booklet, *Enrolment Procedures*, available from the Admissions Office and from School offices.

## 5. New Research Students

Students enrolling for the first time in graduate research degrees will receive an enrolment form by post. They have two weeks from the date of offer of registration in which to lodge the enrolment form with the Cashier and pay the appropriate fees. Completion of enrolment after this time will incur a penalty (see **16.** below).

#### 6. Re-enrolling Research Students

Students re-enrolling in research degrees should lodge the enrolment form with the Cashier as soon as possible but no later than the end of the second week of Session 1. Completion of enrolment after this date will incur a penalty (see **16.** below).

#### 7. Submission of Graduate Thesis or Project Report at Commencement of Session 1

A candidate who has completed all the work for a graduate degree except for the submission of a thesis or project report is required to re-enrol and pay fees as outlined above *unless* the thesis or project report is submitted by the end of the second week of Session 1 in which case the candidate is not required to re-enrol. Those required to re-enrol may claim a refund of fees if able to withdraw within the limit set out in **18.** C 2. below.

#### 8. Miscellaneous Subject Enrolments

Students may be permitted to enrol for miscellaneous subjects (ie as students not proceeding to a degree or diploma) provided the Head of the School offering the subject considers it will be of benefit and there is accommodation available. Only in exceptional cases will subjects taken in this way count towards a degree or diploma. Students who are under exclusion may not be enrolled in miscellaneous subjects which may be counted towards courses from which they have been excluded.

#### 9. Final Dates for Completion of Enrolment

No enrolments for courses extending over the whole year or for Session 1 only will be accepted from new students after the end of the second week of Session 1 (18 March 1977) except with the express approval of the Deputy Registrar (Student Services) and the Heads of the Schools concerned; no later year enrolments for courses extending over the whole year or for Session 1 only will be accepted after the end of the fourth week of Session 1 (1 April 1977) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (5 August 1977) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned.

#### 10. University Union card

All students enrolled for courses leading to degrees and/or diplomas, except those exempt from fees under provisions of section **17.** below, are issued with a University Union membership card. This card must be carried during attendance at the University and shown on official request. The number appearing on the front of the card above the student's name 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 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 on enrolment.

#### 11. Payment of fees

There are no fees for tuition but other fees and charges are payable. These include those charges raised to finance the expenses incurred in operating student activities such as the University Union, the Students' Union, the Sports Association, and the Physical Education and Recreation Centre. Penalties are also incurred if a student fails to complete procedures as required. Charges may also be payable, sometimes in the form of a deposit, for the hiring of kits of equipment which are lent to students for their personal use during attendance in certain subjects. Accommodation charges, costs of subsistence on excursions, field work, etc., and for hospital residence (medical students) are payable in appropriate circumstances.

#### **12. Assisted students**

Scholarship holders and 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 by 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.

#### 13. Extension of time

Any student who is unable to pay fees by the date due may apply to the Deputy Registrar (Student Services) for an extension of time, which may be granted in extenuating circumstances. Such applications must be made before the due date.

#### 14. Failure to pay fees and other debts

Any student who fails to pay prescribed fees or charges or is otherwise indebted to the University and who fails either to make a satisfactory settlement of his indebtedness upon receipt of due notice or to receive a special exemption ceases to be entitled to the use of University

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facilities. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials. In the case of a student enrolled for Session 1 only or for Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (29 April 1977). In the case of a student enrolled for Session 2 only this disbarment applies if any portion of fees is outstanding after the end of the sixth week of Session 2 (2 September 1977).

In special cases the Registrar may grant exemption from the disqualification referred to in the preceding paragraph upon receipt of a written statement setting out all relevant circumstances.

#### 15. Student fees

Fees and penalties quoted are current at the time of publication but may be amended by the University Council without notice.

All students (with the exceptions set out in **17.** below) will be required to pay the following fees if enrolling for a program involving two Sessions. Those enrolling for only one Session will pay one half of the Student Activities Fees, but the full University Union entrance fee, if applicable.

#### Student Activities Fees

University Union, \$25.00 entrance fee, payable on first enrolment.

University Union, \$45.00 annual subscription.

Sports Association, \$6.00 annual subscription.

#### Students' Union:

Students enrolling in full-time courses, \$14.00 annual subscription. Students enrolling in part-time courses and miscellaneous subjects, \$11.00 annual subscription.

Miscellaneous, \$25.00 annual fee.

(The miscellaneous fee is used to finance expenses generally of a capital nature relating to student activities. Funds are allocated to the various student bodies for projects recommended by the Student Affairs Committee and approved by the University Council.)

#### **Special Examination Fees**

Examinations conducted in special circumstances for each subject	\$11.00
Review of examination results, for each subject	\$11.00

#### Other Fees

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

Pathology Instrument Kit	\$10
(Refundable on return in satisfactory condition)	

#### 16. Penalties

Failure to lodge enrolment form according to enrolment procedure	\$20.00
Payment of fees after end of second week of session	\$20.00
Payment of fees after end of fourth week of session	\$40.00

## 17. Exemptions

A Life members of University Union, Sports Association, and Students' Union are exempt from the relevant fee or fees.

**B** Students enrolled in courses classified as *External* are exempt from all Student Activities Fees and the University Union entrance fee.

C University Union fees and subscriptions may be waived by the Deputy Registrar (Student Services) for students enrolled in graduate courses in which the academic requirements require no attendance on the Kensington campus.

D Students who while enrolled at and attending another university (or other tertiary institution as approved by the Vice-Chancellor) in a degree or diploma course are given approval to enrol at the University of New South Wales but only in a miscellaneous subject or subjects to be credited towards the degrees or diplomas for which they are enrolled elsewhere are exempt from all Student Activities Fees and the University Union Entrance Fee.

E Undergraduate students of a recognized university outside Australia who attend the University of New South Wales with the permission of the Dean of the appropriate faculty and of the Head of the appropriate school or department to take part as miscellaneous students in an academic program relevant to their regular studies and approved by the authorities of their own institution are exempt from all Student Activities Fees and the University Union Entrance Fee.

F Graduate students not in attendance at the University and who are enrolling in a project only, other than for the first time, are exempt from all Student Activities Fees.

G Graduate students resubmitting a thesis or project only are exempt from all Student Activities Fees.

H All Student Activities Fees, for one or more sessions may be waived by the Deputy Registrar (Student Services) for graduate students who are given permission to pursue their studies away from the Kensington campus for one or more sessions.

#### 18. Withdrawal from Courses and Subjects

#### Courses

A Students withdrawing from courses (see also Subjects, below) are required to notify the Registrar in writing.

**B** If notice of withdrawal from a course is received by the Registrar before the first day of Session 1 a refund of all fees paid will be made.

C If notice of withdrawal is received on or after the first day of Session 1:

1. a partial refund of the University Union Entrance Fee will be made on the following basis: any person who has paid the entrance fee in any year and who withdraws from membership of the University Union after the commencement of Session 1 in the same year, or who does not renew his membership in the immediately succeeding year, may on written application to the Warden receive a refund of half the entrance fee paid.

2. if the notice of withdrawal is given before the end of the fourth week of Session 1 a full refund of other Student Activities Fees will be made but thereafter no refund will be made, except as provided for in section **D** below.

D If a student's initial enrolment in any year is made at the commencement of Session 2 for Session 2 only and the student gives notice of withdrawal prior to the end of the fourth week of Session 2, a full refund of Student Activities Fees paid (other than the University Union Entrance Fee for which see item C 1. above) will be made but thereafter no refund will be made.

#### Subjects

E Students are permitted to withdraw from subjects without being regarded as having failed, provided they apply by the dates indicated.

First Year Students (ie enrolled for the first time in any undergraduate course at the University).

1. one-session subjects; the end of the eighth week of that session (12 May or 19 September).

2. double-session subjects: the end of the second week of Session 2 (5 August).

#### **Other Students**

1. one-session subjects: one calendar month from the beginning of that session (7 April or 25 August).

2. double-session subjects: the end of the May Recess (21 May).

#### Leave of Absence

Leave of absence from an undergraduate course of study may be granted to students other than those in the first year of a course. This has generally been restricted to one year but in special circumstances two years have been granted. To apply for leave of absence, a letter should be submitted to the Registrar immediately following the release of annual examination results and must include the student's full name, registration number, the course and stage in which enrolled in the previous year and most important, the reason why leave is being sought. The letter advising the result of the application will provide details about how to re-enrol.

Students who withdraw from the first year of their course are not granted leave of absence and must again apply for a place through the Metropolitan Universities Admissions Centre.

#### **Course Transfers**

Students wishing to transfer from one course to another must complete and submit an application form, obtainable from the Admissions Office, Chancellery, by Friday 16 January.

Students whose applications to transfer are successful, and who are transferring from one school to another are required to comply with the enrolment procedure laid down for new students with advanced standing. Students transferring from one course to another within the same school are required to attend the appropriate enrolment session for the course to which they have approval to transfer.

Students must present the approval to transfer to the enrolling office and those who have not received advice regarding their application to transfer before the date on which they are required to enrol should check with the Admissions Office.

Students should also advise the enrolling officer in the school in which they were enrolled in 1975 of their intention to transfer.

## **Admission with Advanced Standing**

Any person who makes application to register as a candidate for any degree or other award granted by the University may be admitted to the course of study leading to such degree or award with such standing on the basis of previous attainments as may be determined by the Professorial Board provided that:

1. the Board shall not grant such standing under these rules as is inconsistent with the rules governing progression to such degree or award as are operative at the time the application is determined;

2. where a student transfers from another university such student shall not in general be granted standing in this University which is superior to what he has in the University from which he transfers;

## Calendar

3. the standing granted by the Board in the case of any application based on any degree/s or other awards already held by the applicant, shall not be such as will permit the applicant to qualify for the degree or award for which he seeks to register without completing the courses of instruction and passing the examinations in at least those subjects comprising the latter half of the course, save that where such a program of studies would involve the applicant repeating courses of instruction in which the Board deems the applicant to have already qualified, the Board may prescribe an alternative program of studies in lieu thereof;

4. the standing granted by the Board in the case of any application based on partial completion of the requirements for any degree or other award of another institution shall not be such as will permit the applicant to qualify for the degree or award for which he seeks to register by satisfactory completion of a program of study deemed by the Board to be less than that required of a student in full-time attendance in the final year of the course in which the applicant seeks to register;

5. the standing granted by the Board in the case of any application based on the partial completion of the requirements for any degree or other award of the University may be such as to give full credit in the course to which the applicant seeks to transfer for work done in the course from which the student transfers.

Where the identity between the requirements for any award of the University already held and that of any other award of the University is such that the requirements outstanding for the second award are less than half the requirements of that award, then a student who merely completes such outstanding requirements shall not thereby be entitled to receive the second award but shall be entitled to receive a statement over the hand of the Registrar in appropriate terms.

## **Changes in Course Programs**

Students seeking approval to substitute one subject for another, add one or more subjects to their program or discontinue part or all of their program must make application to the Registrar through the Head of the School responsible for the course on forms available from School offices. The Registrar will inform students of the decision. Application to enrol in additional subjects must be submitted by the end of the fourth week of Session 1.

It is emphasized that failure to sit for the examinations in any subject in which a student is enrolled will be regarded as failure to satisfy the examiners in that subject unless written approval to withdraw without failure has been obtained from the Registrar.

## **Resumption of Courses**

Students who have had a leave of absence for twelve months and wish to resume their course should follow the instructions about re-enrolling given in the letter granting leave of absence. If these instructions are not fully understood or have been lost, students should contact the Admissions Office *either* in December of the preceding year or before October in the year preceding the one in which they wish to resume their course.

If students have not obtained leave of absence from their course and have not been enrolled in the course over the past twelve months or more, they should apply for admission to the course through the Metropolitan Universities Admission Centre before 1 October in the year preceding that in which they wish to resume studies.

## Examinations

Examinations for Session 2 and for Full Year subjects are held in November/December. Examinations for Session 1 subjects are held during the Midyear Recess.

Provisional timetables indicating the dates and times of examinations and notices of the location of examinations are posted on the central notice boards\* on the campus, including the Western Grounds Area. Students must advise the Examinations Unit (Chancellery) of a clash in examinations scheduling. Details of dates are published in the Calendar of Dates earlier in this volume or in the General Information section in the Faculty Handbooks (see May/June and October).

Misreading of the timetable is not an acceptable excuse for failure to attend an examination.

#### Assessment of Course Progress

In the assessment of a student's progress in University courses, consideration is given to work in laboratory and class exercises and to any term or other tests given throughout the year as well as to the results of written examinations.

#### **Examination Results**

Grading of Passes

Passes will be graded as follows:

High Distinction (indicates an outstanding performance). Distinction (indicates a superior performance).

*Credit* (indicates a good but not superior performance). *Pass* (indicates the achievement of an acceptable minimum level of competence in relation to the course objectives).

\*See Notices below for location details.

#### Pass Conceded

A pass conceded may be granted to a student whose overall satisfactory performance warrants consideration in a subject where the mark obtained is slightly below the standard required for a pass.

#### **Terminating Pass**

A terminating pass may be granted where the mark for the subject is below the required standard. A terminating pass will not permit a student to progress further in the subject or to enrol in any other subject for which a pass in the subject is a co-requisite or prerequisite. A student granted a terminating pass may attempt a deferred examination, if available, to improve his performance, but if the student fails the deferred examination, the terminating pass will stand.

#### Availability of Results

Final examination results will be posted to a student's term address, or vacation address if requested. Change of address forms and forms requesting that results be posted to a vacation address are obtainable at the Information Desk, Chancellery. Both forms can be accepted up to 30 November. Results are also posted on School notice boards and in the foyer of the Sir John Clancy Auditorium.

No examination results are given by telephone.

#### **Review of Results**

Examination results may be reviewed for a fee of \$11.00 a subject, which is refundable in the event of an error being discovered. Such a review will consist primarily in ensuring that all questions attempted by candidates have been marked and that the total of all marks awarded are correct. Applications for review must be submitted on the appropriate form to the Examinations and Student Records Section, together with the necessary fee by the dates printed on the reverse side of *Notification of Results*.

#### lliness

A student who through serious illness or other cause outside his control is unable to attend an examination is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar not later than seven days after the date of the examination, and may be required to submit to medical examination.

A student who believes that his performance in a subject has been affected by serious illness *during the year* or by other cause outside his control, and who desires these circumstances to be taken into consideration in determining his standing, is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar as soon as the circumstances are known but not later than seven days after the date of the examination. All medical certificates should be as specific as possible concerning the severity and duration of the complaint and its effect on the student's ability to take the examinations.

A student who attempts an examination, yet claims that his performance is prejudiced by sickness on the day of the examination must notify the Registrar or Examination Supervisor before, during, or immediately after the examination, and may be required to submit to medical examination.

#### **Special Provision for Disability**

A student suffering from a physical disability which puts him at a disadvantage in written examinations should apply to the Registrar in writing for special provision when examinations are taken. The student should support his request with medical evidence.

#### **Use of Electronic Calculators**

Where the use of electronic calculators has been approved by a faculty or school, examiners may permit their use in examinations. Authorized electronic calculators are battery operated with the minimum operations of addition, subtraction, multiplication and division and are of a type in common use by university students. They are not provided by the University, although some schools may make them available in special circumstances.

#### **Conduct of Examinations**

Examinations are conducted in accordance with the following rules and procedure:

**1.** Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.

2. Candidates are required to be in their places in the examination room not less than ten minutes before the time for commencement.

**3.** No bag, writing paper, blotting paper, manuscript or book, other than a specified aid, is to be brought into the examination room.

**4.** No candidate shall be admitted to an examination after thirty minutes from the time of commencement of the examination.

**5.** No candidate shall be permitted to leave the examination room before the expiry of thirty minutes from the time the examination commences.

**6.** No candidate shall be re-admitted to the examination room after he has left it unless during the full period of his absence he has been under approved supervision.

7. A candidate shall not by any improper means obtain, or endeavour to obtain, assistance in his work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order. 8. Smoking is not permitted during the course of examinations.

**9.** All answers must be in English unless otherwise directed. Foreign students who have the written approval of the Officer-in-Charge of Examinations may use standard translation dictionaries.

10. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room, and to such further penalty as may be determined in accordance with the By-laws.

#### Acknowledgement of Sources

Students are expected to acknowledge the sources of ideas and expressions that they use in essays. To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the marker to consult sources with ease. Failure to do so may constitute plagiarism which is subject to a charge of academic misconduct.

#### **Deferred Examinations**

Deferred examinations may be granted in the following cases:

1. When a student through illness or some other acceptable circumstance has been prevented from taking the annual examination or has been placed at a serious disadvantage during the annual examinations. Requests for deferred examination in this category must be lodged with the Registrar with appropriate evidence of the circumstances (eg medical certificate) not later than seven days after the examination concerned. All such applications shall be reported to the Head of the School responsible for the subject. Before a deferred examination is granted on medical grounds, regard shall be pald to the student's class and assignment work in the subject, to his general performance in the year, and to the significance of the annual examination in compiling the composite mark.

2. To help resolve a doubt as to whether a student has reached the required standard in a subject.

**3.** To allow a student by further study to reach the required standard in a subject. The granting of a deferred examination in such cases will be based on the general quality of the student's performance.

4. Where a student's standing at the annual examinations is such that his progression or graduation could depend on his failure in one subject only, then his position in that subject shall be again reviewed with a view to determining whether a deferred examination may be granted notwithstanding his failure otherwise to qualify for such concession.

Deferred examinations must be taken at the centre in which the student is enrolled, unless he has been sent on compulsory industrial training to remote country centres or interstate. In this case the student must advise the Registrar, on a form available from his school or the enquiry desk, Chancellery, of relevant particulars, before leaving for his destination, in anticipation that deferred examination papers may have to be forwarded to him. Normally, the student will be directed to the nearest University for the conduct of the deferred examination.

#### Deferred Examinations in Arts, Commerce and Law

1. Except in exceptional circumstances, deferred examinations may only be granted in Commerce degree courses in subjects taught by schools of the Faculty or by those schools in the Faculty of Arts listed in 2. below, or in Arts degree courses in subjects offered by the School of Economics, when a student through illness or for some other acceptable reason has been prevented from taking the examination or has been placed at a serious disadvantage during the examination.

2. Except on medical or compassionate grounds, no deferred examination may be granted in the Arts degree course in subjects offered by the Schools of Drama, English, French, Geography, German, History, History and Philosophy of Science, Philosophy, Political Science, Russian, Sociology, and Spanish and Latin American Studies.

3. The granting of deferred examinations in Law degree courses shall be subject to the following rules:

A in the case of subjects taken in another faculty or board of studies the rules of that faculty or board of studies shall apply;

B In other cases, deferred examinations shall be granted only in exceptional circumstances, and only if a deferred examination is considered necessary to assess a student's performance in a subject.

#### **Conceded Deferred Examination**

A conceded deferred examination may be granted to a student where the mark in the subject is below the standard at which deferred examinations have been granted in the subject but whose overall performance warrants such a concession.

## **Restrictions 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.

#### First-year Rule

1. A student enrolled for the first time in any undergraduate course in the University shall be required to show cause why he/she should be allowed to continue the course if that student fails more than half fhe program in which he/she is enrolled. In order that students may calculate half their program, the weighting of subjects in each course is defined in *Schedule A*,\* which may be varied from time to time by the Professorial Board.

#### Repeated-failure Rule

2. A student shall be required to show cause why he/ she should be allowed to repeat a subject which that student has failed more than once. Where the subject is prescribed as part of the student's course he/she shall also be required to show cause why he/she should be allowed to continue that course. Failure in a deferred examination as well as in the initial examination counts for the purposes of this rule as one failure.

#### General Rule

3. The Re-enrolment Committee may, on the recommendation of the relevant faculty or board of studies, review the academic progress of any student. If that student's academic record seems to demonstrate, in the opinion of the Committee, the student's lack of fitness to pursue a subject or subjects and/or a course or courses, the Committee may require that student to show cause why he/she should be allowed to re-enrol in such subject(s) and/or course(s).

#### The Session-unit System

4. A A student who infringes the provisions of Rules 1 or 2 at the end of Session 1 of any year will not be required to show cause at that time but will be allowed to repeat the subject(s) (if offered) and/or continue the course in Session 2 of that year, subject to the rules of progression in that course.

B Such a student will be required to show cause at the end of the year, except that a student who has infringed Rule 2 at the end of Session 1, and repeats the subject(s) in question in Session 2, and passes it/them, will not be required to show cause on account of any such subject(s).

#### **Exemption from Rules by Faculties**

**5.** A A faculty or board of studies examination committee may, in special circumstances, exempt a student from some or all of the provisions of Rules 1 and 2.

B Such a student will not be required to show cause under such provisions and will be notified accordingly by the Registrar.

#### 'Showing Cause'

6. A A student wishing to show cause must apply for special permission to re-enrol. Application should be made on the form available from the Examinations and Student Records Section and must be lodged with the Registrar by the dates published annually by the Registrar. A late application may be accepted at the discretion of the University. B Each application shall be considered by the Re-enrolment Committee which shall determine whether the cause shown is adequate to justify the granting of permission to re-enrol.

#### Appeal

7. A Any student who is excluded by the Re-enrolment Committee from a course and/or subject(s) under the provisions of the Rules may appeal to an Appeal Committee constituted by Council for this purpose with the following membership†:

A Pro-Vice-Chancellor nominated by the Vice-Chancellor who shall be Chairman.

The Chairman of the Professorial Board, or if he is unable to serve, a member of the Professorial Board, nominated by the Chairman of the Professorial Board, or when the Chairman of the Professorial Board is unable to make a nomination, nominated by the Vice-Chairman.

One of the category of members of the Council elected by the graduates of the University, nominated by the Vice-Chancellor.

The decision of the Committee shall be final.

B The notification to any student of a decision by the Re-enrolment Committee to exclude him/her from re-enrolling in a course and/or subject(s) shall indicate that the student may appeal against that decision to the Appeal Committee. In lodging such an appeal with the Registrar the student should provide a complete statement of all grounds on which the appeal is based.

C The Appeal Committee shall determine the appeal after consideration of the student's academic record, his/her application for special permission to re-enrol, and the stated grounds of appeal. In exceptional circumstances, the Appeal Committee may require the student to appear in person.

#### Exclusion

8. A A student who is required to show cause under the provisions of Rules 1 or 3 and either does not attempt to show cause or does not receive special permission to re-enrol from the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in the subject(s) and course(s) on account of which he was required to show cause. Where the subjects failed are prescribed as part of any other course (or courses) he/she shall not be allowed to enrol in any such course.

B A student who is required to show cause under the provisions of Rule 2 and either does not attempt to show cause or does not receive special permission to re-enrol from the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in any subject he/she has failed twice. Where the subject

†It is proposed that under this arrangement, the membership of the Appeal Committee will be Pro-Vice-Chancellor J. B. Thornton (Chairman), Professor D. M. McCallum, Chairman of the Professorial Board, and a member of Council in the category of members elected by the graduates of the University, nominated by the Vice-Chancellor.

<sup>\*</sup>For Schedule A see below.

failed is prescribed as part of the student's course he/she shall also be excluded from that course. Where the subject failed is prescribed as part of any other course (or courses) he/she shall not be allowed to enrol in any such course(s).

C A student excluded from a course or courses under the provisions of A or B may not enrol as a miscellaneous student in subjects which may be counted towards any such course.

#### Re-admission after Exclusion

**9.** A An excluded student may apply to the Re-enrolment Committee for re-admission after two academic years.

B An application for re-admission after exclusion should be made on the form available from the Examinations and Student Records Section and should be lodged with the Registrar not later than 31 August in the year prior to that for which re-admission is sought. A late application may be accepted at the discretion of the University.

C An application should include 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 and/or evidence of appropriate study in the subject(s) (or the equivalent) on account of which the applicant was excluded.

#### **Restrictions and Definitions**

**10.** A These rules do not apply to students enrolled in programs leading to a higher degree or graduate diploma.

B A subject is defined as a unit of instruction identified by a distinctive subject number.

Schedule At

(See First Year Rule 1. above)

Half the program is defined as half the sum of the unit values of all the subjects in the program where the unit value for each subject in a course is defined as follows:

Faculty/Board of Studies	Course	Unit Values (UV)
Applied Science	300-22, 421-2	One-session subjects: UV 1 Two-session subjects in Year 1: UV 2
Architecture	330, 336-8	All subjects: UV equal to the allocated hours**

Faculty/Board of Studies	Course	Unit Values (U/V)
	333	All subjects: appropriate UV, corresponding to credit points**
Arts	340 (342)	All subjects: appropriate
Biological Sciences	343	All subjects: UV 1
Commerce	349-59	All subjects except Mathe- matics: UV 1 Mathematics: UV 2
Engineering	360-74	One-session subjects: UV 1 Two-session subjects: UV 2
Law	472-9	One-session subjects: UV 1 Two-session subjects except 90.111: UV 2 90.111: UV 1
Medicine	380 (381)	80.011 and 80.211: UV 1 1.081 and 80.201: UV 2 2.011: UV 3 80.111: UV 6 General Studies: UV 0
Military Studies:		All subjects: UV 1
Professional Studies	400 (402), 406	One-session subjects: UV 1 Two-session subjects ir Year 1: UV 2
	403	63.421 and General Studies UV <sup>1/2</sup> All other subjects in Years I and II: UV 1
	404 <b>(</b> 405)	All subjects in Year I: UV 1
Science	391-7	All Science course sub- jects: appropriate UV** General Studies: UV 1 31.831: UV 1 31.821: UV 2 31.811: UV 3 21.810: UV 3

## **Rules for Progression**

# Progression in Full-time Courses where Progression is by the Year

1. No full-time student (except those in the Science course or in Arts, Commerce or Engineering) will be permitted to attend lectures or to sit for examination in any subject in any year until he has passed in all subjects of the previous year, unless special permission has been granted by the faculty in which he is enrolled.

2. A student who fails to qualify to progress to the next year of the course where progression is by years may be granted, by the Head of the School conducting the course, exemption from further attendance and examina-

†Approved Council Meeting, November 1975.

\*\*For details see the appropriate Faculty Handbook.

tion in any subject in which he has achieved a pass at a satisfactory standard. Such student may repeat those subjects required to complete the year by attendance at either day or evening classes.

**3.** Any student who elects to transfer to the related parttime course is not eligible to be considered for additional deferred examinations at the time of transfer and may not qualify for progression to the next year of the full-time course merely by completing the part-time equivalents of the subjects in which he has failed.

**4.** In general, students who fail in full-time courses, and who transfer to part-time courses, shall not be re-admitted with standing to the full-time course until they have graduated from the part-time course.

#### **Faculty Rules for Progression**

In addition to the above rules, the Faculties of Applied Science, Architecture, Engineering and Professional Studies have their own rules for progression which are published in their respective faculty handbooks.

## Admission to Degree or Diploma

Students in their final year whose current program will enable them to complete all requirements for the degree or diploma, including industrial training where necessary, should complete the form *Final Year Students: Submission of Details Associated with Graduation* by 12 May if completing at the end of Session 1, and 12 September if completing at the end of Session 2. The forms are available from the Enquiry Counter at the Chancellery and will be mailed to all final year students.

The completion and submission of the form ensures that:

1. the correct spelling and sequence of names is recorded on the degree certificate 2. any previous academic qualifications are shown in the graduation ceremony program 3. all correspondence relating to the ceremony is forwarded to the correct address. Note: If notifying change of address after the form has been submitted an additional form *Final Year Students' Graduation: Change of Address Advice* should be submitted.

If the student meets all the requirements, the degree or diploma will be conferred without the necessity for further action by the student. Students should advise the Registrar, in writing, if they do not wish to have the degree or diploma conferred for any reason, including the decision to proceed to an honours degree. This advice should reach the Registrar no later than 30 July for students completing at the end of Session 1, and 30 January for those completing at the end of Session 2 to ensure that the degree is not conferred.

## **Attendance at Classes**

Students are expected to be regular and punctual in attendance at all classes in the course or subject in which they are enrolled. All applications for exemption from attendance at lectures or practical classes must be made in writing to the Registrar.

In the case of illness or of absence for some other unavoidable cause students may be excused by the Registrar for non-attendance at classes for a period of not more than one month or, on the recommendation of the Dean of the appropriate Faculty, for a longer period.

Applications for exemption from lectures (leave of absence) should be addressed to the Registrar and, where applicable, should be accompanied by a medical certificate. If examinations have been missed, this should be stated in the application.

If students fail a subject at the annual examinations in any year and re-enrol in the same course in the following year, they must include in their program of studies for that year the subject in which they failed. This requirement will not be applicable if the subject is not offered the following year; is not a compulsory component of a particular course; or if there is some other cause which is acceptable to the Professorial Board, for not immediately repeating the failed subject.

If students attend less than eighty per cent of their possible classes, they may be refused permission to sit for the examination in that subject.

## Student Records

Enrolment details forms will be sent to all students on 30 April and 30 August. It is not necessary to return these forms unless any information recorded thereon is incorrect. Amended forms must be returned to the Examinations and Student Records Section within fourteen days. Amendments notified after the closing date will not be accepted unless exceptional circumstances exist and approval is obtained from the Registrar. Amended forms returned to the Registrar will be acknowledged in writing within fourteen days.

## **Ownership of Students' Work**

The University reserves the right to retain at its own discretion the original or one copy of any drawings, models, designs, plans and specifications, essays, theses or other work executed by students as part of their courses, or submitted for any award or competition conducted by the University.

## Change of Address

The Student Records Section of the Registrar's Division should be notified as soon as possible of any change of address. Failure to do this could lead to important correspondence (including examination results) going astray. The University cannot accept responsibility if official communications fail to reach students who have not given notice of their change of address. Change of Address Advice Forms are available at Faculty and School offices and at the Information Counters on the Ground Floor of the Chancellery Building.

All communications from the University, including examination results, will be sent to the Term address. Change of Address Advice will be accepted up to 30 November, except for final-year students wishing to change their *Submission of Details Associated with Graduation* form. Changes to this form will be accepted up to a date four weeks before the student's graduation ceremony.

## Notices

Official University notices are displayed on the notice boards and students are expected to be acquainted with the notices which concern them. These boards are in the Biological Sciences Building, the Sciences Building, the Chancellery (lower ground floor), Central Lecture Block, Dalton Building (Chemistry), Electrical Engineering Building, Main Building (Physics and Mining) and in the Western Grounds Area.

## Parking within the University Grounds

A limited amount of parking is available on campus. Copies of the University's parking rules may be obtained on application to Room 240, Chancellery Building.

## Academic Dress

Information about the University's academic dress requirements may be obtained from the Alumni Officer, Room 309, Chancellery Building (phone extension 2998).

## **Student Services and Activities**

## Accommodation

## **Residential Colleges**

There are seven residential colleges on campus. Each college offers accommodation in a distinctive environment which varies from college to college, as do facilities and fees. A brief description of each college is given below, and further information may be obtained directly from the individual colleges. In addition to basic residence fees, most college make minor additional charges for such items as registration fees, caution money or power charges. Intending students should lodge applications before the end of October in the year prior to the one in which they seek admission. Most colleges require a personal interview as part of the application procedure.

#### The Kensington Colleges

The Kensington Colleges comprise Basser College, Goldstein College and Philip Baxter College. They house 450 men and women students, as well as staff members. Fees are payable on a session basis. Apply in writing to the Master, Mr K. W. Bromham, PO Box 24, Kensington, NSW 2033.

#### International House

International House accommodates 154 students from Australia and up to twenty other countries. Preference is given to more senior undergraduates and graduate students. Apply in writing to the Warden, Professor J. S. Ratcliffe, International House, PO Box 88, Kensington, NSW 2033.

#### New College

This Church of England College is open to all students without regard to race or religion. It has accommodation for approximately 220 students and is co-educational. Enquiries should be addressed to the Master, Rev. Dr S. B. Babbage, New College, Anzac Parade, Kensington, NSW, 2033.

#### Shalom College

Shalom College provides accommodation for 86 men and women students. Non-resident membership is available to students who wish to avail themselves of the kosher dining room and tutorial facilities. Apply in writing to the Master, Mr Z. Amit, Shalom College, The University of New South Wales, PO Box 1, Kensington, NSW 2033.

#### Warrane College

Warrane College provides accommodation for 200 men and is open to students of all ages, backgrounds and beliefs. A comprehensive tutorial program is offered along with a wide range of activities and opportunities to meet informally members of the University staff. Nonresident membership is available to male students who wish to participate in College activities and make use of its facilities. Warrane is directed by the international Catholic lay association Opus Dei. Apply in writing to the Master, Dr J. F. Martins, Warrane College, PO Box 123, Kensington, NSW 2033.

#### Creston Residence

Creston, associated with Warrane College, offers accommodation for twenty-five full-time undergraduate and graduate women students of all nationalities and denominations. It is directed by the Women's Section of Opus Dei, a Catholic lay organization. Enquiries should be addressed to the Principal, 36 High Street, Randwick, NSW 2031.

#### Other Accommodation

#### **Off-campus Accommodation**

Students requiring other than College accommodation may contact the Housing Officer in the Student Amenities and Recreation Unit for assistance in obtaining suitable lodging in the way of full board, room with cooking facilities, flats, houses, share flats, etc. Extensive listings of all varieties of housing are kept up-to-date throughout the year and during vacations.

No appointment is necesary but there may be some delay in February and March. The Housing staff are always happy to discuss any aspect of accommodation.

Special pamphlets on accommodation, lists of estate agents and hints on house-hunting are available on request.

Location: The Student Accommodation Service is located in Hut B. Telephone 663 0351, extension 3260.

## Associations, Clubs and Societies

#### The Sports Association

The Sports Association is a student organization within the University, and it caters for a variety of competitive sports for both men and women. In December 1952 the University Council approved the establishment of the Sports Association which consisted of five clubs. As the University has grown, the Association has expanded, and today includes over thirty clubs. Membership is compulsory at \$6 per year for all registered students and is open to all members of staff and graduates of the University.

The Sports Association office is situated in Hut G, near the bottom of Basser Steps, and the control of the Sports Association is vested in the General Committee. The Executive Officer of the Sports Association may be contacted on extension 2673.

#### School and Faculty Associations

Many schools and faculties have special clubs with interests in particular subject fields. Enquire at your Faculty Office for information.

#### **Australian Armed Services**

The University maintains links with the Royal Australian Navy, the Citizen Military Forces and the Royal Australian Air Force, and opportunities exist for student participation in their activities. See the General Information section of the Faculty Handbooks for details.

## **Chaplaincy Centre**

#### The University Chapel

The University provides a small chapel for the use of all faiths. In its temporary housing it is located in Hut F near the Chemistry Building. The chapel is available for services of worship by arrangement with the full-time chaplains. At other times it is available for private meditation to all members of the University.

#### **Chaplaincy Service**

A Chaplaincy Service is available within the University of New South Wales for the benefit of students and staff.

The Service offers fellowship, personal counselling and guidance, together with leadership in biblical and doctrinal studies and in worship. The Chaplains maintain close liaison with student religious societies.

The chaplains are located in Hut F, which also contains the temporary chapel. See the General Information section of the Faculty Handbooks for details which include telephone numbers.

## **Deputy Registrar (Student Services)**

The Deputy Registrar (Student Services), Mr Peter O'Brien, and his Administrative Assistant, Mr Stephen Briand, are located on the first floor of the Chancellery. They will help students who have problems and need advice but are not sure whom they should see. As well as dealing with general inquiries they are specifically concerned with the problems of physically handicapped and disabled students and those in need of financial assistance. The latter students should see Mr Briand.

All inquiries should be made either at room 148A or by telephoning extension 2482 (general inquiries) or 3164 (financial assistance).

## **Student Counselling and Research Unit**

The Student Counselling and Research Unit provides individual and group counselling and self-help programs for students, prospective students, parents and others concerned with student progress. It pursues research into factors affecting student performance, and the published results of its research and experience are helpful in improving University and other counselling services and the quality of student life.

Appointments for counselling consultations are available from 9 am to 7 pm, and may be made by 'phoning 663 0351, extensions 3681, 3685 and 2696 or by calling at the Unit, which is located at the foot of Basser Steps. In urgent cases interviews can be given on a walk-in basis between 9 am and 5 pm. The Head of the Unit is Mr G. A. Gray.

## **Student Amenities and Recreation Unit**

In general the Student Amenities and Recreation Unit seeks ways to promote the physical, social and educational development of students through their leisure time activities. The Unit provides, for example, a recreational program for students and staff at the Physical Education and Recreation Centre; negotiates with the Public Transport Commission of NSW on student travel concessions and supplies concession forms for bus, rail, ferries and planes; assists students with off-campus housing; and, in consultation with the Sports Association, assists various recognised clubs.

Mr I. Moutray is the Head of the Unit, which is located in Hut B at the foot of Basser Steps. The various services may be contacted by phone on the following extensions: Recreation Program 3271; Travel 2617; Accommodation 3260; Sports Association 2673.

## **Physical Education and Recreation Centre**

The Student Amenities and Recreation Unit provides a recreational program for students and staff at the Physical Education and Recreation Centre. The Centre consists of eight squash courts and a main building, the latter containing a large gymnasium and practice rooms for fencing, table tennis, judo, weight-lifting, karate and jazz ballet, also a physical fitness testing room. The recreational program includes intramurals, teaching/coaching, camping, and fitness testing. The Centre is located on the lower campus adjacent to High Street. The Supervisor of PERC may be contacted on extension 3271.

## **Student Employment and Scholarships Unit**

The Student Employment and Scholarships Unit offers assistance with career employment for final year students and graduates of the University. This service includes the mailing of regular job vacancy notices to registered students and a campus interview program for final year students.

Careers advice and assistance are also available to undergraduates. Assistance is offered in finding vacation employment which gives either course-related experience or industrial training experience, where this is a course requirement. Information and advice regarding cadetships, undergraduate and graduate scholarships is also available.

The service is located in the Chancellery on the ground floor.

Phone extension 3259 for employment and careers advice, or extension 2086 for cadetships and indust-ial training information.

## Student Health Unit

A student health clinic and first aid centre is situated within the University. It is staffed by three qualified medical practitioners, assisted by two nursing sisters. The medical service although therapeutic is not intended to entirely replace private or community health services. Thus, where chronic or continuing conditions are revealed or suspected, the student may be referred to a private practitioner or to an appropriate hospital for specialist opinion and/or treatment. The health service is not responsible for fees incurred in these instances. The service is confidential and students are encouraged to attend for advice on matters pertaining to health.

The service is available to all enrolled students by appointment, free of charge, between 9 am and 5 pm Mondays to Fridays. For staff members, immunizations are available, and first aid service in the case of injury or illness on the campus.

The centre is located in Hut E on the northern side of the campus in College Road at the foot of the Basser Steps. The Director is Dr M. A. Napthali.

Appointments may be made by calling at the centre or by telephoning extension 2679 or 3275 during the above hours.

The Family Planning Association of NSW conducts clinics at the Student Health Unit and at the adjacent Prince of Wales Hospital. These clinics are open to staff and students and appointments may be made for the Student Health Unit clinic by telephoning 698 9499 or for The Prince of Wales Hospital clinics by telephoning 399 0111.

## The Students' Union

The Students' Union was formed in 1952 as an organization, duly recognized by the University Council, to represent the student body and to provide a central organization for the administration of student activities. In the words of its constitution, 'The Students' Union is formed for the purpose of advancing the interests of University men and women, facilitating their general scientific and technical education, and fostering a University spirit among them.'

The Students' Union affords a recognized means of communication between the student body and the University administration, and represents its members in all matters affecting their interests. It aims to promote the cultural, educational and recreational life of the University and to encourage a permanent interest among graduates in the life and progress of student activities within the University.

Membership of the Students' Union is compulsory for all registered students of the University and the annual subscription is \$10 for full-time students and \$8 for part-time students. All Alumni of the University are eligible for Life Membership.

The Students' Union is governed by a Council consisting in the main of elected student representatives from the various faculties of the University. There are also representatives of the University Council, Life Members, the Staff Association and the Sports Association. The Council is elected annually.

A full-time President, elected each year by popular ballot, directs the entire administration of the Students' Union and its activities, through the permanent Administrative Officer.

Other full-time officers include the Education Vice-President who works towards the implementation of Student Union education policy and in assisting students with problems they may encounter in the University; director of Overseas Students who deals with specific problems these students may encounter while in Australia. Both are elected by students with the latter elected by overseas students.

The activities of the Students' Union include:

- Infakt—a student-run information referral service for students who want someone to talk to or need help of any kind. infakt is located in the bus at the foot of Basser Steps.
- 2. A casual employment service.
- 3. Organization of Orientation Week.
- 4. Organization of Foundation Day.
- 5. A nursery/kindergarten, The House at Pooh Corner.
- 6. Publication of the student paper Tharunka.
- 7. A free legal service run by a qualified lawyer employed by the Students' Union Council.
- 8. SU Record Shop which offers 18% discount.
- 9. The Nuthouse which deals in bulk and health foods.
- 10. Secondhand Bookshop for cheap texts.
- 11. CASOC (Clubs and Societies on Campus) which provides money from the SU for affiliated clubs and societies on campus.

The Students' Union is affiliated with the Australian Union of Students (AUS) which represents students on the national level. AUS also subsidises cheap travel and insurance.

The SU is located on the Second Floor, Stage III, the Union.

## The University Library

The University Libraries are mostly situated on the upper campus. The library buildings house the Undergraduate Library on Level 3, the Social Sciences and Humanities Library on Level 4, the Physical Sciences Library on Level 7 and the Law Library on Level 8. The Biomedical Library is in the western end of the Sciences Building and is closely associated with libraries in the teaching hospitals of the University.

For details consult Faculty Information in the relevant Faculty Handbook.

There are also library services at other centres:

The Water Reference Library situated at Manly Vale (Telephone 948 0261) which is closely associated with the Physical Sciences Library.

The library at the Broken Hill Division in the W.S. and L.B. Robinson University College building (Telephone 6022/3/4).

The library at the Royal Military College, Duntroon, ACT, serving the Faculty of Military Studies.

Each library provides reference and lending services to staff and students and each of the libraries on the Kensington campus is open throughout the year during day and evening periods. The exact hours of opening vary during the course of the academic year.

Staff and students normally use a machine-readable identification card to borrow from the University libraries. For students, a current union card is acceptable. Staff must apply to the library for a library card.

## The University Union

The University Union provides the facilities students, staff and graduates require in their daily University life and thus an opportunity for them to know and understand one another through associations outside the lecture room, the library and other places of work.

The Union is housed in three buildings near the entrance to the Kensington Campus from Anzac Parade. These are the Roundhouse, the Blockhouse and the Squarehouse. Membership of the Union is compulsory at \$45 per year for all registered students and is open to all members of staff and graduates of the University.

The control of the Union is vested in the Board of Management whose Chief Executive Officer Is the Warden, Mr A. T. Cuningham; the President is Mr M. J. Shanahan.

The full range of facilities provided by the Union includes a cafeteria service and other dining facilities, a large shopping centre, cloak room, banking and hairdressing facilities, showers, a women's lounge, common, games, reading, meeting, music, practice, craft and dark rooms. Photocopying, sign printing, and stencil cutting services are also available. The Union also sponsors special concerts (including lunchtime concerts) and conducts courses in many facets of the arts including weaving, photography, creative dance and yoga. Full information concerning courses is contained in a booklet obtainable from the Union's program department.

The University Union should not be confused with the Students' Union or Students' Representative Council as it is known in some other universities. This latter body has a representative function and is the instrument whereby student attitudes and opinions are crystallized and presented to the University and the community.

#### Undergraduate and Graduate

# Disciplines of the University

The range of disciplines offered by the University is indicated in the tables below, the first arranged in order of faculties and the second in alphabetical order of disciplines.

For details of the disciplines within each faculty consult the relevant faculty handbook.

A summary description of each discipline follows.

## Table of Courses (by faculty)

## **Undergraduate Study**

## Full-time

Course	Course Code	Degree	Dura Year Pass	tion in s Honours
Faculty of Applied	d Scier	nce		
Applied Geography	301	BSc	4	4
Applied Economic				
Geography	301	BSc	4	4
Biogeography and				
Climatology	301	BSc	4	4
Geomorphology and				
Pedology	301	BSc	4	4
Applied Geology	300	BSc	4	4
Ceramic Engineering	302	BSc	4	4
Chemical Engineering	304	BE	4	4
Biological Process				
Engineering 1.	304	BE	4	4
Fuel Engineering 1.	304	BF	4	4

Course	Course Code	Degree	Durat Years Pass	ion In 3 Honours
Faculty of Applied	Scien	ce (contir	nued	I)
Food Technology	306	BSc	4	4
Industrial Chemistry	310	BSc	4	4
Metallurgical Process	318	BE	4	A
Metallurgy	312	BSc	л Л	4
Mining Engineering	314	RF	4	4
Textile Technology	317	BSc	4	4
Textile Chemistry	317	BSc	4	4
Textile Physics	317	BSc	4	4
Textile Engineering	317	BSc	4	4
Textile Manufacture	317	BSc	4	4
Wool and Pastoral Sciences Wool and Pastoral Sciences (Education	322	BSc	4	4
Option)	321	BSc	4	4
Faculty of Archited	cture			
Architecture	337	BSc(Arch)	3	
Architecture	330	BArch	6	6
Landscape Architecture	338	BLArch	4	p
Building 1A.	333	BBuild	4	4
Town Planning	336	BTP	5	5
Faculty of Arts				
Arts	340	BA	3	4

Full-time (continued)				
	Course		Duration in Years	
Course	Code	Degree	Pass	Honours
Faculty of Biologic	cal Sci	ences		
Psychology	343	BSc	4	4
rsychology	040	200	•	•
Faculty of Comme	erce			
Accounting, Finance	051	BCom.	2	4
and Systems	351	BCom	3 2	4
Economic History	309	BCom	ა ი	4
Economics	303	BCom	3	4
Econometrics	356	BCOM	3	4
Economics/Econometric	258 258	BCom	_	4
Industrial Palations	355	BCom	3	4
Marketing	340	BCom	3	4
Warketing	049	Beom	0	4
Faculty of Engine	ering			
Aeronautical Engineering	361	BE	4	4
Civil Engineering	362	BE	4	4
Electrical Engineering	364	BE	4	4
Industrial Engineering	366	BE	4	4
Mechanical Engineering	368	BE	4	4
Naval Architecture	370	BE	4	4
Surveying 2.	374	BSurv	4	4
Combined Arts/				
Engineering 3.	372	BA BE	5	6
Combined Science/				
Civil Engineering 3A.	373	BSc BE	5	6
Combined Science/				
Electrical	07/004		~	F
Engineering 3	97/364	B2C BE	5	5
Faculty of Law				
Combined Arts/Law	476	BA LLB	5	4
Combined Commerce/				
(Accounting, Finance				
and Systems)/Law	473	BCom LLB	5	4
Combined Commerce				
(Economics)/Law	474	BCom LLB	5	4
Combined Commerce				
(Industrial Relations)/	475	DOamUD	E	
Law *•	4/5	DCOIII LLB	э	
Combined Science/	477	BScLIB	5	_
Combined Juris	777		0	-
prudence/Law 4.	478	BJuris LLB	5	_
Jurisprudence	472	BJuris	3	
l aw 5.	479	LLB	3	
Law .	419	LLO	3	

Course	Course Code	Degree	Dura Year Pass	tion in s Honours
Faculty of Medicin	e			
Medicine	380	MB BS	5	5
Science (Medicine)	381	BSc(Med)	1	1
,				
<b>Faculty of Military</b>	Studi	es		
Applied Science	430	BSc(Mil)	4	
Chemistry	433	BSc		4
Mathematics	434	BSc		4
Physics	435	BSc		4
Arts	431	BA(Mil)	4	—
Arts	436	BA		4
Civil Engineering	432	BE	4	4
Electrical Engineering	437	BE	4	4
Mechanical Engineering	448	BE	4	4
		<b>A 1</b>		
Faculty of Protess	ional	Studies	-	
Health Administration	404	вна	3	
Science				
(Industrial Arts)	401	BSc(IndArt	c)	
Dipionia in Education	701	DipEd	3, 4	
Science/Diploma in		<b>-</b> (p = 5		
Education	407	BSc DipEd	4	5
	408	BSc DipEd	4	5
Social Work	403	BSW	4	4
Eaculty of Science	-			
Optomotry	305	BOntom	Λ	4
Optometry Bure and Applied	030	Doptom	-	7
Chemistry	391	BSc	3	4
Onemisity	001	200	•	
Board of Studies in	n Scier	nce and Ma	athe	matics
Science and				
Mathematics 6.	397	BSc	3	4
<ol> <li>Awarded degree of BE in the seventee the course.</li> </ol>	Chemical en semest	Engineering. ters may be tal	ken to	complete
2. The Surveying course is which students attend alte 1977 however, new students full-time for one year or con a part-time basis.	offered a rnate ses are give mpleting l	as a sandwich sions on a full on the opportun Parts 1 and 2 o	cours I-time ity of If the	e (375) in basis. In attending course on
<ol> <li>An Honours degree cour approval of the respective Engineering.</li> </ol>	se in Art deans	s may be taker of the facultie	a with s of	the prior Arts and
<b>3A.</b> Proposed for implement at time of publication.	tation in	1977. Details a	te no	t available
4. An Honours BCom degr and an Honours BA, two ex Honours BA degree course then seek admission to a th	ee course tra years. are advis ree-year l	would require Students inten ed to complete LB degree cour	one ding the c se.	extra year to take an course and
5. Available to graduates or 6. Students seeking to o Diploma courses in Occup by the Cumberland Colleg admission to the Science a (397).	graduands ualify fo ational Th e of Hea and Mathe	s only. r admission to lerapy or Physi lth Sciences si ematics full-time	the othera hould edeg	Graduate apy offered apply for ree course
Part-time				
---------------------------	---------	-----------	------	-----------------
			Dur	ation in
Course	Course	Degree	Yea	rs B Honours
	Code	Degree	r as	
Faculty of Applied	Scier	ıce		
Mining Engineering 7.	421	BE	7	7
Ceramics	303	BSc(Tech)	6	
Chemical Engineering	304	BE	7	7
Food Technology	307	BSc(Tech)	6	
Industrial Chemistry	311	BSc(Tech)	6	
Metallurgy	313	BSc(Tech)	6	_
Mineral Processing 7.	422	BSc(Tech)	Sta	aes 1 &
j		,	2	
Faculty of Archite	cture			
Architecture	337	BSc(Arch)	6	—
Faculty of Comme	rca 8.			
Accounting Finance				
and Systems	351	BCom	6	7
Economic History	359	BCom	6	7
Economics	353	BCom	6	7
Economics / Econometric	s		Ū	•
(Hons)	358	BCom	_	7
Econometrics	356	BCom	6	7
Industrial Relations	355	BCom	6	7
Marketing	349	BCom	6	7
Part-time, Year 1 only	350	-		
Faculty of Engine	erina			
Aeronautical Engineering	360	BSc(Ena)	6	
Civil Engineering	362	BE	7	7
Civil Engineering	363	BSc(Ena)	6	
Electrical Engineering	365	BSc(Ena)	6	
Industrial Engineering	367	BSc(Eng)	6	
Mechanical Engineering	369	BSc(Eng)	6	
Naval Architecture	371	BSc(Eng)	6	_
Surveying 9.	374	BSurv	7	7
Carroynig	0/4	500.1	•	I
Faculty of Law	470		~	
Law	479	LLB	6	_
Faculty of Profess	ional s	Studies		
Health Administration 10.	404	BHA	3	6
Faculty of Science	•			
Pure and Applied				
Chemistry	391	BSc	6	8

			Duration in
	Course		Years
Course	Code	Degree	Pass Honours

## Board of Studies in Science and Mathematics

Science and				
Mathematics	397	BSc	7	6/8

7. Available at Broken Hill and may be completed on a mixed full-time and part-time basis.

8. With the approval of the Head of School concerned, each of the part-time Commerce courses may be completed in five years.

9. The Surveying course is offered as a sandwich course (375) in which students attend alternate sessions on a full-time basis. In 1976, however, new students are given the opportunity of completing Parts 1 and 2 of the course on a part-time basis.

10. Part-time on an external basis.

## Graduate Study

The University provides facilities for approved students to engage in advanced studies and research leading to the award of higher degrees and graduate diplomas.

The conditions for various awards are administered by the Higher Degree Committee of the appropriate Faculty or Board of Studies under the general supervision of that Faculty or Board.

The degree of Doctor of Philosophy<sup>+</sup>† is available in all Faculties and in the Australian Graduate School of Management and requires the completion of a program of research over a period of at least three years' fulltime study and the preparation of a thesis. The degree of Doctor of Medicine<sup>\*</sup> requires a similar program of study.

The higher doctorates of Doctor of Science<sup>†</sup>, Doctor of Laws<sup>†</sup> and Doctor of Letters<sup>†</sup> may be awarded for published work of distinguished merit in any one of these fields.

The University also offers masters degrees\* by research *and* by course work, as well as various courses leading to the award of a graduate diploma‡. Details are outlined on the following pages.

At the W. S. and L. B. Robinson University College in Broken Hill, candidates may register for the research degrees of Doctor of Philosophy\*†, Master of Science† and Master of Engineering†, subject to adequate research facilities and satisfactory supervision being available in the candidate's particular field of study.

\*For conditions of the award of this degree see the appropriate Faculty Handbook.

†For conditions of the award of this degree see later in the Calendar.

‡For conditions of the award of a graduate diploma see the appropriate Faculty Handbook.

## Graduate Study (continued)

Short intensive graduate and special courses are provided each year through the Division of Postgraduate Extension Studies, the Postgraduate Committee in Medical Education, and a number of Schools of the University. These courses cover a wide range of interests, and details are advertised separately.

School/Course Course Course Course   Faculty of Applied Science   PhD   Applied Geology R 100   Chemical Engineering R 101   Chemical Technology R 102   Food Technology R 103	time
Faculty of Applied SciencePhDApplied GeologyR100Chemical EngineeringR101Chemical TechnologyR102Food TechnologyR103ConserverD109	
PhDApplied GeologyR100Chemical EngineeringR101Chemical TechnologyR102Food TechnologyR103ConservativeD109	
Applied GeologyR100Chemical EngineeringR101Chemical TechnologyR102Food TechnologyR103ConservativeR109	
Chemical EngineeringR101Chemical TechnologyR102Food TechnologyR103OccurrentlyR103	
Chemical Technology R 102 Food Technology R 103	
Food Technology R 103	
Osenseku D 109	
Metallurov R 104	
Mining Engineering R 105	
Textile Technology R 106	
Wool and Pastoral	
Sciences R 107	
MADDSc	
Applied Geophysics C 807 1	
Bioprocess Engineering C 800 1	2
Chemical Engineering C 801 1	2
Chemical Technology C 880 1	2
Environmental Pollution	
Control C 804 1	2
Food Technology C 803 1	2
Fuel Technology C 806 1	2
HydrogeologyEngineer-	
ing Geology C 802 1	2
Industrial Pollution Control C 808 1	2
Metallurgy C 805	
Mineral Exploration C 809 1	2
ME	
Chemical Engineering R 215	
Chemical Technology R 216	
Metallurgy R 217	
Mining Engineering R 218	
MSc	
Applied Geology R 200	
Chemical Engineering R 201	
Chemical Technology R 202	
Food Technology R 203	
Geography B 204	
Metallurgy R 205	

Cohool / Course	Type Research	Course	Duratio Full-	on/Years Part-
School/Course	/ Course	Lode	111118	
Mining Engineering	R	206		
Textile Technology	R	207		
Wool and Pastoral				
Sciences	R	208		
GradDip				
Corrosion Technology	С	501	—	2
Food Technology	С	502	1	2
Fuel Technology	С	503	1	2
Mining and Mineral	•	504	4	2
Engineering		504	1	2
wool lechnology	C	508	I	2
Faculty of Architec	ture			
	ui o			
Architecture	R	113		
Building	R	114		
Town Planning	R	115		
MArch	Б	220		
Architecture	n	220		
MBuild				
Building	R	221		
MLArch				
Landscape Architecture	R	222		
MSc(Acoustics)				
Acoustics	С	810		2
MSc(Building)				
Building	С	811		2
MSc(BuildServ)				
<b>Building Services</b>	С	812		2
МТР				
Town Planning	R	223		
GradDip				
Housing and Neighbour-				
hood Planning	С	520	1	2
Landscape Design	С	521	-	2
Faculty of Arts				
DLD				
Drama	R	118		
English	R	120		

R

R

121

122

French

Geography

## Graduate Study (continued)

School/Course	Type Research /Course	Course Code	Durati Full- time	on/Years Part- time
Faculty of Arts (co	ontinued)	)		
German	R	123		
History	R	124		
History and Philosophy				
of Science	R	125		
Philosophy	R	126		
Political Science	R	127		
Russian	R	129		
Sociology	R	130		
Spanish	R	131		
MA(Hons)				
Drama	R	226		
Economics	R	227		
English	R	228		
French	R	229		
Geography	R	230		
German	R	231		
History	R	232		
History and Philosophy	D	233		
Mathematics	D	200		
Philosophy	n D	204		
Political Science	n D	235		
Pointcal Science	D	200		
Puesion	D	223		
Sociology	n Þ	238		
Spanish and Latin	n	200		
American Studies	R	239		
ма				
English	С	817	1	2
German	ĉ	820	1	2
History	č	818		2
Mathematics	č	816		2
Philosophy	č	819	1	2
	Č	5.5	•	-

## Faculty of Biological Sciences

Biochemistry	R	141
Biological Technology	R	142
Botany	R	143
Microbiology	R	144
Psychology	R	140
Zoology	R	145

	Туре		Durati	on/Years
School/Course	Research /Course	Course Code	Full- time	Part- time
MPsychol				
Psychology	С	825	1	2
MSc				
Biochemistry	R	246		
Biological Technology	R	247		
Botany	R	248		
Microbiology	R	249		
Psychology	R	245		
Zoology	R	250		
MSc(Biotech)				
Biological Technology	С	826	1	2
GradDip				
Biochemical Engineering	С	532	1	2
Faculty of Commerce	<b>:e</b>			
PhD				
Accountancy	R	152		
Business Administration	R	153		
Economics	R	154		
Marketing	R	155		
MCom(Hons)				
Accounting, Finance				_
and Systems	R&C	263	2	3
Economic History	R&C	259	2	3
Econometrics	R&C	260	2	3
Economics	H&C	264	2	3
Industrial Relations	H&C	254	2	3
Marketing	R&C	253	2	3
MCom				
Accounting, Finance				
and Systems				
Commerce				
Econometrics	С	847	2	3
Economic History	-	-	_	-
Economics				
Marketing				
marketing J				
MBA†				
Business Administration	С	841	2	3

†To be withdrawn at end of 1977 when all current candidates will have completed requirements.

1

## Graduate Study (continued)

School/Course	Type Research /Course	Course Code	Duratio Full- time	on/Years Part- time
Faculty of Engineer	ing			
Civil Engineering	R	163		
Electrical Engineering	R	164	•	
Highway Engineering	R	165		
Mechanical and Industrial	••			
Engineering	R	166		
Nuclear Engineering	R	167		
Surveying	R	168		
Transportation and				
Traffic	R	169		
MF				
Civil Engineering	B	265		
Electrical Engineering	R	266		
Highway Engineering	R	267		
Mechanical and Industrial		207		
Engineering	R	269		
Nuclear Engineering	R	270		•
Transportation and Traffic	R	271		•
MENGSC Civil Engineering	~	001	4	~
Civil Engineering		801	1	2
Liectrical Engineering		850	4	2
Highway Engineering		852	4	2
Machanical Engineering		803	1	2
Nuclear Engineering	C C	004	1	2
Transportation and Traffic	ĉ	850	1	2
transponation and tranic	U	009	•	2
MSc				
Civil Engineering	R	275		
Electrical Engineering	R	276		
Highway Engineering	R	277		
Mechanical and Industrial	_			
Engineering	R	278		
Transportation and Traffic	к	279		
MSurv				
Surveying	R	272		
Meunica	1			
MSUFVSC	<u>^</u>	005		2
Surveying Science	C	000		2
GradDip				
Highway Engineering	С	543	1	2
Human Communication	С	544	1	2
Industrial Engineering	С	545	1	2 '
Transport	C	546	1 **	`2 <sup>`</sup>
Engineering Develop-	• 216. 1	·		
ments*	C	547	. <b>1</b>	2

School/Course	Type Research /Course	Course Code	Durati Full- time	on/Years Part- time
Faculty of Law				
PNU	_			
Law	R	173		
LLM				
Law	R	244		
		۰.		
Faculty of Medicine	•			
MD				
Medicine	R	035		
Pathology	R	036		
Physiology and	Р	027		
Pharmacology Obstatrian and	н	037		
Gvnaecology	R	038		
Psychiatry	R	039		
Surgery	R	040		
Paediatrics	R	041		
Anatomy	R	042		
Community Medicine	R	043		
PhD				
Anatomy	R	175		
Community Medicine	R	176		
Medicine	R	177		
Pathology	R	178		
Physiology and	•	170		
Pharmacology	n P	1/9		
Surgery	R	181		
MSc				
Anatomy	R	280		
Community Medicine	R	281		
Medicine	R	282		
Obstetrics and				
Gynaecology	R	283		
Pathology	R.	284		
Physiology and				
Pharmacology	н	285		
rsychiatry	к	200		

\*May also be taken externally.

Graduate Study	(continued)					Туре		Durati	on/Years
	Туре		Duratio	on/Years	School/Course	Research /Course	Course Code	Full- time	Part- time
School/Course	Research /Course	Course Code	Full- time	Part- time					
	· · · · ·				Faculty of Profess	ional Stu	udies		
MS					PhD	_			
Surgery (School of					Education	R	197		
Surgery)	R	286			Health Administration	R	195		
Surgery (Other Schools)	R	287			Industrial Arts	R	196		
					Librarianship	R	199		
					Social Work	R	198		
Foculty of Militory	Studioe				MCouns(Ed)	H & C	895	2	
PhD	Sluules								
Applied Physics and					MEd	_			
Optometry	R	186			Education	R	299		••
Chemistry	R	187			Education	С	891	2	4
Civil Engineering	R	163							
Economics	R	154			мна				
Electrical Engineering	R	164			Health Administration	R	296	2	2 or
English	R	120					200	-	more
Government (Arts)	R	132			Health Administration	С	890	2	
Geography	B	108							
Government (Commerce)	R	157							
Highway Engineering	R	165			мнр				-
History	R	124			Health Planning	С	894	1	2
Mathematics	R	188							
Mechanical and Industrial		100			MLib				
Engineering	R	166			Librarianship	R	298		
Nuclear Engineering	R	167			Librarianshin	Ċ	892	1	2
Physics	R	189				•		•	-
Surveying	R	168							
Traffic Engineering	R	169			MSc				
					Industrial Arts	R	295		
MA(Hons)									
Economics	R	227			MSW				
English	R	228			Social Work	R	297		
Government	R	240			Social Work	С	893	1	2
Geography	B	230							
History	R	232			D:- E4				
Mathematics	R	234			Education	C	556	1	· .
					Eddoulon	U	.000	•	
ME					0				
Civil Engineering	R	265			GradDip	•			•
Electrical Engineering	R	266			Industrial Design	C	557	1	2
Mechanical	R	269							
					DipLib				
					Librarianship	С	559	1	_
MSC	_					-		-	
Chemistry	R	291							
Mathematics	R	292			DipArchivAdmin				
Physics	R .	293			Librarianship	С	560	1	2

## Graduate Study (continued)

Graduate Study	(conti	nued)			School/Course	Type Research	Course	Durati Full-	on/Years Part-
	Туре		Durat	ion/Years					
School/Course	Research /Course	Code	Full- time	Part- time					
	7000100				MStats				
					Statistics	С	875	2	4
Faculty of Science									
PhD									
Applied Physics and					Food and Drug Analysis	С	551		2
Optometry	R	186				0	001		-
Chemistry	R	187							
Mathematics	R	188			GradDip				
Physics	R	189			Current Science	С	552	1	2
MChem									
Chemistry	С	877	1			<b>0</b> . <b>b</b> 1			•
,					Australian Graduate	School	ot Ma	nagen	nent
1114 all					PhD				
MMath	•	074		•	AGSM	R	135		
Mathematics	C	8/4	1	2					
					MBA				
ME	_				<b>Business Administration</b>	С	835	2	
Applied Physics	н	289							
					MPA				
MOptom					Public Administration	С	836	2	
Optometry	С	876	1	2 or	1 dbhe Administration	U	000	2	
				more					
MPhysics					Board of Studies in	а Селе	ral Edu	ucatio	n
Physics	С	873	1		MGenStud	R&C	910		2
MSc									
Applied Physics and									
Optometry	R	290			Professorial Board				
Chemistry	R	291							
Mathematics	R	292			MHPEd				
Physics	R	293			Health Personnel Education	С	900	1 1⁄2 *	21⁄2*
MScSoc									
History and Philosophy									
of Science	С	878	<del></del>	2	Includes a project of approved	d field work	of six mo	nths.	

## Table of Courses (alphabetical)

As already indicated, there are facilities in all faculties for study for higher research degrees, and in some faculties for higher degrees by a combination of research and course work. In this Table and the summary of disciplines (see following pages) reference is made to graduate study only where formal graduate courses are available.

Discipline	Faculty	Code Nu Full-time	mber Part-time	Degree Abbreviation Full-time	n Part-time	Duration Pass/Ho Full-time	nour <del>s</del> Part-time
Accountancy	Commerce	351 847	351 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Acoustics, see also Architecture	Architecture		810		MSc(Acoustics)		2
Aeronautical Engineering	Engineering	361	360	BE	BSc(Eng)	4	6
Anatomy, see also Cellular Biology, Human Structure and Function, Medical Science	Medicine	381		BSc(Med)		1	
	Board of Studies in Science and Mathematics	397		BSc	BSc	3	7/9
Applied Geography see Geography							
Applied Geology, see Geology							
Applied Geophysics	Applied Science	807	807	MAppSc	MAppSc	1	2
Architecture	Architecture	337 330	337	BSc(Arch) BArch	BSc(Arch)	3 6	6
Archives Administration	Professional Studies	560	560	DipArchivAdmin	DipArchivAdmin	1	2
Biochemical Engineering	<b>Biological Sciences</b>	532	532	GradDip	GradDip	1	2
Biochemistry, see also Cellular Biology, Human Structure and Function, Medical Science	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	7/9
	Medicine	381		BSc(Med)		1	
Biological Technology, see also Food Technology	Biological Sciences and Applied Science	826	826	MSc(Biotech)	MSc(Biotech)	1	2
	Board of Studies in Science and Mathematics	397		BSc		3/4	
Bioprocess Engineering, see also Chemical Engineering	Applied Science	800	800	MAppSc	MAppSc	1	2
Botany	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	7/9
Building	Architecture	333	333 811 812	BBuild	BBuild MSc(Building) MSc(BuildServ)	8/17se	mesters 2 2
Business Administration	AGSM	835		MBA		2	
Cellular Biology	Medicine	380		MB BS		5	

Discipline	Faculty	Code Nu Full-time	mber Part-time	Degree Abbreviation Full-time	n Part-time	Duration Pass/Ho Full-time	nours Part-time
	, 2001.)						
Ceramic Engineering, see also Chemical Technology	Applied Science	302		BSc		4	
Ceramics, see also Chemical Technology	Applied Science		303		BSc(Tech)		6
Chemical Engineering	Applied Science	304 801	304* 801	BE MAppSc	BE* MAppSc	4 1	7* 2
Chemical Technology, see also Ceramic Engineering, Ceramics, Industrial Chemistry and Polymer Science	Applied Science	880	880	МАррЅс	MAppSc	1	2
Chemistry, see also Pure and Applied Chemistry	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	7/9
	Science	877		MChem		1	
	Medicine	380		MB BS		5	
Civil Engineering	Engineering	362	362 363	BE	BE BSc(Eng)	4	7* 6
		373† 861	861	BSc BE MEngSc	MEngSc	5 1	6 2
Clinical Studies	Medicine	380		MB BS		5	
Community Medicine	Medicine	380 381		MB BS BSc(Med)		5 1	
Commerce, see also Accountancy, Economics, Economic History, Econometrics, Industrial Relations, and Marketing	Commerce	847	847	MCom	MCom	2	3
Computer Science, see also Electrical Engineering	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	6/7
Corrosion Technology	Applied Science		501		GradDip		2
Current Science	Science	552	552	GradDip	GradDip	1	2
Drama	Arts	340		BA		3/4	
Econometrics, see also Economics	Commerce	356 847	356 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Economic History, see also Economics	Commerce	359 847	359 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Economics	Commerce	353 847	353 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Education	Professional Studies	406 407 408 891 556 895	891	BSc(Ed) BSc DipEd BSc DipEd MEd DipEd MCouns(Ed)	MEd	4 4 2 1 2	5 5 4

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\*By combination of full-time and part-time study the duration may be reduced.

†Proposed for implementation in 1977. Details are not available at time of publication.

Discipline	Faculty	Code Nu Full-time	mber Part-time	Degree Abbreviation Full-time	Part-time	Duratio Pass/H Full-tim	n onours le Part-time
Electrical Engineering	Engineering	364 372	365	BE BA BE MEngSo	BSc(Eng)	4 5/6	6
	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	2 6/7
Engineering Developments	Engineering	547	547	GradDip	GradDip	1	2
English	Arts	340 817	817	BA MA	MA	3/4 1	2
Environmental Pollution Control	Applied Science	804	804	MAppSc	MAppSc	1	2
Food and Drug Analysis	Science	551	551	DipFDA	DipFDA	1	2
Food Technology, see also Chemical Engineering	Applied Science	306 803 502	307 803 502	BSc MAppSc GradDip	BSc(Tech) MAppSc GradDip	4 1 1	6* 2 2
French	Arts	340		BA		3/4	
Fuel Engineering, see also Chemical Engineering	Applied Science	304		BE		4	
Fuel Technology	Applied Science	806 503	806 503	MAppSc GradDip	MAppSc GradDip	1 1	2 2
General Studies	Board of Studies in General Education		910		MGenStud		2
Geography	Applied Science	301		BSc		4	
	Board of Studies in Science and Mathematics	397		BSc		3/4	
Geology	Applied Science Science	300 397	397	BSc BSc	BSc	4 3/4	7/9
	Board of Studies in Science and Mathematics	397		BSc		3/4	
German	Arts	340 820	820	BA MA	МА	3/4 1	2
Health Administration	Professional Studies	404 890	404	BHA MHA	BHA	3 2	6
Health Planning		894	894	MHP	MHP	1	2
Health Personnel Education	Professorial Board†	900	900	MHPEd	MHPEd	1 1⁄2	21⁄2
Highway Engineering	Engineering	852	852	MEngSc	MEngSc	1	2
History	Arts	340		BA		3/4	
History and Philosophy of Science	Arts	340		BA		3/4	
	Board of Studies in Science and Mathematics	397		BSc		3/4	
Housing and Neighbourhood Planning	Architecture	520	520	GradDip	GradDip	1	2

\*By combination of full-time and part-time study the duration may be reduced. †Administering body.

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Discipline	Faculty	Code Nu Full-time	mber Part-time	Degree Abbreviation Full-time	Part-time	Duration Pass/Ho Full-time	nours Part-time
Human Behaviour	Medicine	380		MB BS		5	
Human Communication, see also Division of Post- graduate Extension Studies	Engineering	544	544	GradDip	GradDip	1	2
Human Structure and Function	Medicine	380		MB BS		5	
Hydrogeology-Engineering Geology	Applied Science	802	802	MAppSc	MAppSc	1	2
Industrial Arts	Professional Studies	401		BSc(Ind Arts) DipEd		4	
Industrial Chemistry, see also Chemical Technology	Applied Science	310	311	BSc	BSc(Tech)	4	6
Industrial Design‡	Professional Studies	557	557	GradDip	GradDip	1	2
Industrial Engineering	Engineering	366 85 <b>3</b>	367 853 545	BE MEngSc	BSc(Eng) MEngSc GradDip	4 1	6 2 2
Industrial Pollution Control	Applied Science	808	808	MAppSc	MAppSc	1	2
Industrial Relations, see also Economics	Commerce	355 84 <b>7</b>	355 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Integrated Clinical Studies, see Clinical Studies							
Landscape Architecture, see also Architecture	Architecture	338		BLArch		4	
Landscape Design			521		GradDip		2
Arts/Law Commerce (Accounting, Finance and Systems)/Law	Law	476 473		BA LLB BCom LLB		5 5	
Commerce (Industrial Relations)/Law		474 475		BCom LLB BCom LLB		5 5	
Science/Law Jurisprudence/Law Jurisprudence Law		477 478 472 479		BSc LLB BJuris LLB BJuris LLB	LLB	5 5 3 3	6
Librarianship	Professional Studies	892 559	892	MLib DipLib	MLib	1 1	2
Marine Science	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	6/7
Marketing	Commerce	349 847	349 847	BCom MCom	BCom MCom	3/4 2	6/7 3
Mathematics	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	7/9
	Arts	340		BA		3/4	
	Science	874	874 816	MMath	MMath MA	1	2 2

‡Not offered in 1977.

Discipline	Faculty	Code Nur	mber Part-time	Degree Abbreviation	Part-time	Duration Pass/Ho Full-time	nours
		- un-time					
Mechanical Engineering	Engineering	368 854	369 854	BE MEngSc	BSc(Eng) MEngSc	4 1	6 2
Medical Science	Medicine	380		MB BS		5	
Medicine, see also Cellular Biology, Chemistry, Clinical Studies, Community Medicine, Human Behaviour, Human Structure and Function, Medical Science, Obstetrics and Gynaecology, Paraclinical Science, Physics, Psychiatry	Medicine	380		MB BS		5	
Metallurgy	Applied Science	312 805	313 805	BSc MAppSc	BSc(Tech) MAppSc	4 1	6 2
Metallurgical Process Engineering, see also Metallurgy	Applied Science	318		BE		4	
Microbiology, see also Paraclinical Science	Board of Studies in Science and Mathematics	397 381	397	BSc BSc(Med)	BSc	3/4 1	7/9
Mineral Exploration, see also Geology		809	809	MAppSc	MAppSc	1	2
Mineral Processing* see also Mining Engineering	Applied Science		422*		BSc(Tech)*		6
Mining and Mineral Engineering, see Mining Engineering	Applied Science	504	504	GradDip	GradDip	1	2
Mining Engineering	Applied Science	314	421*	BE	BSc(Eng)*	4	6*
Naval Architecture	Engineering	370	371	BE	BSc(Eng)	4	6
Nuclear Engineering	Engineering	855	855	MEngSc	MEngSc	1	2
Obstetrics and Gynaecology	Medicine	380		MB BS		5	
Optometry	Science	395 876	876	BOptom MOptom	MOptom	<b>4</b> 1	2 or more
Paediatrics	Medicine	380		MB BS		5	
Paraclinical Science	Medicine	380		MB BS		5	
Pathology, see also Paraclinical Science, Clinical Studies	/ Medicine	381		BSc(Med)		1	
Pharmacology, see also Paraclinical Science, Medical Science							
Philosophy	Arts	340 819	819	BA MA	MA	3/4 1	2
Physics	Board of Studies in Science and Mathematics	397 873	397 873	BSc MPhysics	BSc MPhysics	3/4 1	7/9 2
Physics	Medicine	380		MB BS		5	

\*Available at Broken Hill only.

Discipline	Faculty	Code Nu Full-time	mber Part-time	Degree Abbreviation Full-time	Part-time	Duration Pass/Ho Full-time	nours e Part-time
Physiology, see also Cellular Biology, Human Structure and Function	Medicine	381		BSc(Med)		1	
	Board of Studies in Science and Mathematics	397		BSc		3/4	
Political Science	Arts	340		BA		3/4	
Polymer Science, see Chemical Technology							
Psychiatry	Medicine	380		MB BS		5	
Psychology	Biological Sciences Board of Studies in Science and	343 825 397	825 397	BSc MPsychol BSc	MPsychol BSc	4 1½ 3/4	3 7/9
	Mathematics						
	Arts	340		BA		3/4	
Public Administration	AGSM	836		MPA		2	_
Pure and Applied Chemistry, see also Chemistry	Science	391	391	BSc	BSc	6	8
Russian	Arts	340		BA		3/4	
Social Work	Professional Studies	403 893	893	BSW MSW	MSW	4 1	2
Sociology	Arts	340		BA		3/4	
Spanish and Latin American Studies	Arts	340		BA		3/4	
Statistics, see also Econometrics and Mathematics	Science	875	875	MStats	MStats	2	4
Surgery, see Clinical Studies							
Surveying	Engineering	374 865	375* 865	BSurv MSurvSc	BSurv* MSurvSc	4 1	6/7* 2
Textile Technology	Applied Science	317		BSc		4	
Town Planning	Architecture	336		BTP		5	
Transport Transportation and Traffic	Engineering	546 859	546 859	GradDip MEngSc	GradDip MEngSc	1 1	2 2
Wool and Pastoral Sciences (Education Option)	Applied Science	321		BSc		4	
Wool and Pastoral Sciences Wool Technology		322 508	508	BSc GradDip	GradDip	4 1	2
Zoology	Board of Studies in Science and Mathematics	397	397	BSc	BSc	3/4	7/9

\*Sandwich course, involving full-time attendance at University for one session and full-time employment in surveying for remainder of year

## Summary of Disciplines of the University

For details of the disciplines within each faculty consult the relevant faculty handbook.

## Faculty of Applied Science

#### Applied Geology, see Geology

#### **Chemical Engineering**

Chemical Engineering is the application of the principles of the physical sciences and of economics and human relations to fields in which matter undergoes change. The course in Chemical Engineering (304) leads to the award of the BE degree by full-time and part-time study. It allows specialization in Biological Process Engineering and in Fuel Engineering. Biological Process Engineering is an extension of chemical engineering principles to systems involving biological materials. Fuel Engineering involves the practical and economic applications of science and engineering to the production, processing and utilization of fuels and energy. The first year courses in Chemical Engineering are similar to first year of the Science and Mathematics course (397) and transfer in either direction can usually be arranged at the end of first year without loss of standing.

There are several formal graduate courses: the Master of Applied Science courses in Bioprocess Engineering (800), Chemical Engineering (801), Environmental Pollution Control (804), Fuel Technology (806), and Industrial Pollution Control (808); and Graduate Diploma courses in Corrosion Technology (501) and Fuel Technology (503).

#### **Chemical Technology**

Chemical Technology is the discipline which translates the work of the research chemist into the activities of the chemical industry. It is concerned with the selection of the most suitable chemical process for converting available raw materials into the desired product and with the application of the selected process in the most economical way in terms of energy, manpower and money. There are two courses: Ceramic Engineering (302 fulltime BSc) and Ceramics (303 part-time BSc(Tech)), covering the development, production and application of chemically inorganic materials (except metals and alloys), which are normally rendered serviceable through high temperature processing; and Industrial Chemistry (310 full-time BSc and 311 part-time BSc(Tech)), concerned with the development and use of inorganic and organic industrial chemicals and the special class of materials called macromolecules, eg plastics and elastomers.

There is a formal graduate course in Chemical Technology (880), leading to the award of Master of Applied Science degree.

#### Food Technology

Food Technology is concerned with securing optimum quality and quantity of the food supply. It is an interdisciplinary science with applications from areas of chemistry, biochemistry, biological technology, microbiology, agriculture, engineering, nutrition and commerce. There are full-time and part-time courses, leading to the award of the BSc (306) and the BSc(Tech) (307) degree respectively. First year courses in Food Technology are similar to first year of the Science and Mathematics course (397) and transfer in either direction can usually be arranged at the end of first year without loss of standing.

There are two formal graduate courses: the Master of Applied Science course in Food Technology (803) and a Graduate Diploma course in Food Technology (502).

#### Geography

Geography is the study of variations from place to place on the earth's surface arising from the spatial phenomena which make up Man's world. The applied geography programs in Applied Science (301) are designed to train professional geographers, particularly in the conservation and planned development of resources. Specializations offered are Biogeography and Bioclimatology, Economic Geography and Geomorphology and Pedology.

Geography is also a major sequence in the Arts course (340), where the emphasis is on human geography, the study of where and how man lives and of his activities in relation to his environment. A major sequence in the Science Course (397) studies the relationships between man and his physical environment, combining geographical studies, particularly in physical geography, with those in related disciplines, notably the biological and earth sciences.

#### Geology

Geology is the science of the earth's crust, its history, composition and the processes involved in the evolution of its present structure. The Applied Geology BSc degree course (300) proceeds from basic geological science to instruction in practical application with such topics as Geomechanics, Exploration and Mining Geology, Engineering Geology, Exploration Geophysics, and Petroleum Geology. Geology is a major study in the Science course (397) and a minor study in the Arts Course (340).

There are three formal Master of Applied Science degree courses: in Hydrogeology-Engineering Geology (802), Applied Geophysics (807) and Mineral Exploration (809).

#### Metallurgy

Metallurgy is concerned with the application of scientific and engineering principles to the production and use of metals. It is an applied science and can be regarded as a combination of pure science (in which the aim is to investigate the fundamental nature of metals and the reactions in which they take part), and engineering (in which the aim is to design and operate processes and produce materials to serve man's needs). There are three undergraduate courses, two full-time, in Metallurgy (312) and in Metallurgical Process Engineering (318), leading to the award of the BSc and the BE degree respectively; and one part-time in Metallurgy (313), leading to the award of the BSc(Tech) degree.

There is also a formal graduate course in Metallurgy (805), leading to the award of the Master of Applied Science degree.

#### **Mining Engineering**

Mining Engineering is a branch of engineering concerned with the exploration, assessment, development and management of mining operations. The full-time course in Mining Engineering (314) leading to the award of the BE degree, the part-time course (421), also leading to the award of the BE degree, and the part-time course in Mineral Processing (422) leading to the award of the BSc(Tech) degree, prepare students for careers in the coal mining, metalliferous mining, quarrying or the petroleum industry. The part-time courses are available at Broken Hill only.

There is a formal graduate course in Mining and Mineral Engineering (504), leading to the award of a Graduate Diploma.

#### **Textile Technology**

The Textile Technology course (317), leading to the award of the BSc degree, is essentially a study of the basic sciences and engineering, together with a broad training in the whole range of textile sciences and technologies. Students can specialize in textile chemistry, textile physics, textile engineering or textile manufacture. First year is similar to that of Science (397) and Electrical Engineering (364), and transfer can usually be arranged in either direction at the end of the first year without loss of standing.

#### **Wool and Pastoral Sciences**

The Wool and Pastoral Sciences BSc course (322) provides training for specialist personnel in the pastoral industry. Initially there is a study of the basic sciences, and then courses in Plant Sciences, Animal Production, Wool Science and Metrology, Agricultural Economics, Genetics, Biostatistics, Mammalian Nutrition, Physiology and Biochemistry, Rural Extension and Animal Health. Students may specialize in any of these topics in fourth year.

There is also a BSc degree course in Wool and Pastoral Sciences Education Option (321), which provides tertiary training for teachers of sheep husbandry and wool science in the Department of Technical Education and in Agricultural High Schools and Colleges.

A formal graduate diploma course in Wool Technology (508) is available.

### Faculty of Architecture

Architecture is concerned with the arts and sciences which govern the design and construction of buildings and the modification of the outdoor environment.

#### Architecture

The School of Architecture offers three undergraduate courses: the Bachelor of Science (Architecture) (337 full-time and part-time), which covers the fundamentals of building technology and design, the Bachelor of Architecture (330), which extends and develops the material in the BSc(Arch) degree course, and the Bachelor of Landscape Architecture (338), which is concerned with both natural and man-made exterior spaces. There are two formal graduate courses: the Master of Science (Acoustics) (810), and the Graduate Diploma in Landscape Design (521).

#### Building

Building is one of the three Schools of the Faculty of Architecture. Its Bachelor of Building course (333 offered on a semester basis) provides training for future managers and executives in the building industry. There are two formal graduate courses: the Master of Science (Building) (811), and the Master of Science (Building Services) (812).

#### **Town Planning**

The Bachelor of Town Planning course (336) is oriented towards the needs of government and local government planning agencies. Graduates work towards the creation of a better urban environment and towards determining the best use of land at national, regional and local levels. There is a formal graduate diploma course in Housing and Neighbourhood Planning (520).

#### Faculty of Arts

All the disciplines in the Faculty of Arts constitute major sequences for the award of the Bachelor of Arts degree (340).

#### Drama

Courses in the School of Drama are concerned with the critical and historical evaluation of drama and of the theatre arts, including film. The courses are academic, but also introduce students to the practical side of theatre. The work of the School is facilitated and enriched by the presence on campus of the National Institute of Dramatic Art, which provides vocational training, the Old Tote Theatre, a professional company, and the Jane Street Theatre which presents seasons of new Australian work. The English courses are designed to suit not only candidates for Honours and pass students taking a major for the Arts degree but also those wishing to study the subject for only one or two years. The Honours program and the pass 'major' cover the main periods and most of the great writers of English literature, with some representation of Australian and American authors. Old and Middle English are not compulsory except for the Honours candidate in the later years. Both first-year courses (1A and 1B) include introductory study of Language; and students may, if they wish, take further work in Language in the later years. A formal graduate course (817) is also offered, leading to the award of an MA degree at pass level.

#### French

The French course covers language, literature and thought, and civilization and society. Almost all teaching is done in tutorials, where French is used whenever possible. The study of literature, in which intellectual content is considered as well as aesthetic quality, is closely integrated with courses on French social and political history. A system of options makes it possible for students to select areas which interest them, and to do a preponderance of work in either language or literature.

The School also offers three courses designed mainly for students from other Schools in the Faculty of Arts and from other faculties.

#### German

Two first year courses are offered, one for students who have studied German to the Higher School Certificate level and another for those with no previous knowledge of the language. By intensive study during term and vacation students in the second category are expected to reach the same standard as those in the first by the end of third year. In the later years of the course students may choose from a wide range of options in practical language work, literature, linguistics, medieval German, history and culture. A formal graduate course (820) is also offered, leading to the award of an MA degree at pass level.

#### History

The History course is concerned with aspects of modern history: Asian, Australian, British, European, International and American. Concurrently it deals with approaches to problems of historical explanation, and with techniques for dealing with source materials. In the honours year there is an in-depth treatment of historiography. A formal graduate course (818) is also offered, leading to the award of an MA degree at pass level.

#### History and Philosophy of Science

History and Philosophy of Science can be taken as a major sequence in the Science course (397) as well as in the Arts course (340). It can also be taken as part of the Science (Education) course (406).

Although the courses provide training in the autonomous discipline of History and Philosophy of Science, they also function effectively as interdisciplinary studies. Level I courses deal with the seventeenth-century intellectual, scientific and/or cosmological revolutions. Upper Level courses deal with aspects of the philosophy or social history of Science or with later periods of Science which had an important scientific and cultural impact. In general, the courses do not require a study or knowledge of specific scientific disciplines but seek to relate science itself to its cultural context and to provide a philosophical and historical critique of scientific progress.

#### Philosophy

Philosophy is an attempt to sum up the world and our knowledge of it, approaching in a spirit of inquiry such fundamental problems as the foundations of morality, the grounds of religious belief, the source and reliability of knowledge and the relation of body and mind. While not of practical value in a vocational sense, except for those who wish to become university teachers, philosophy illuminates most other disciplines because of the critical attitude it engenders, in particular in theology, mathematics, history, politics, psychology and aesthetics. Philosophy is also a minor study in the Science course (397).

A formal graduate course (819) is also offered, leading to the award of an MA degree at pass level.

#### **Political Science**

Political Science is the study of political ideas, institutions and activity. As the study of one area of society, the political area, it is closely linked with other social sciences: history, sociology, economics and with philosophy and law. Its complexity is indicated by its various branches: Political Institutions, Political Theory, Comparative Government and Politics, International Relations and Political Sociology. The first year of the BA degree course is devoted mainly to the Australian system and to some comparative governments, and later years to comparative government, political theory and international relations. As the subject contains much that is controversial, training is also provided in the techniques of critical appraisal and political analysis. Some units in Political Science can be taken by Commerce and Law students.

#### Russian

The School of Russian offers courses in the language, literature and culture of the Russian people. The period covered is from the eleventh century to the present day.

#### Sociology

Sociology is concerned with the study of the structure of society as a whole and social relations in general. Its subject matter is diverse, overlapping not only with that of other social sciences—economics, politics, psychology and anthropology—but also with the subject matter of other disciplines—philosophy, history, medicine, the natural sciences, town planning, law and education. The major emphasis in the course is the development, first, of a critical awareness of research methods and of sociological theory and, second, of a sociological imagination.

#### Spanish and Latin American Studies

Major sequences in Spanish and Latin American Studies are available for native and non-native speakers of Spanish, For students with no prior knowledge of the language emphasis is placed on intensive oral and written work in all units in their sequence. Both native and non-native speakers study aspects of the history and literature of Spain and Latin America in the first two years of the sequence; in the third year students may specialize in Latin American historical or in Spanish and Latin American literary studies; studies in Spanish linguistics are also available to native speakers. The School offers two Upper Level units in Latin American history for students with no knowledge of Spanish who have completed a first-year subject in one of the social sciences. One or both of the units may be included in a sequence within the School of History.

### Faculty of Biological Sciences

#### **Biochemistry**

Biochemistry is a study of the chemical processes of living organisms, and requires a background of biology and chemistry and, to a lesser extent, of mathematics and physics. Biochemistry in turn is an essential element in the study of all disciplines in the Faculty of Medicine, and in biological technology, botany, microbiology and zoology. Biochemistry is a major sequence in the Science and Mathematics course (397). Medical students may also interrupt their course to specialize in Biochemistry for the award of the additional degree of Bachelor of Science (Medicine) (381).

#### **Biological Technology**

Biotechnology, a well-established area of study, is concerned with the applications of some of the biological sciences, biochemistry, microbiology and genetics) to industry, agriculture and medicine.

It is an interdisciplinary field and draws not only upon the techniques and methodologies of the relevant biological sciences but also upon those of mathematics, computing science, the physical sciences and engineering. A major sequence in Biotechnology can be associated with biochemistry, chemistry and microbiology, and with other subjects in the Science course (397). Particular aspects of biotechnology are included in the electrical engineering, food technology and industrial chemistry courses. Formal graduate courses are offered to graduates with a diversity of backgrounds; these courses are the Graduate Diploma in Biochemical Engineering (offered conjointly with the School of Chemical Engineering) (532), and the Master of Science (Biotechnology) course (826). Various graduate level subjects can be included in the Graduate Diploma in Current Science (552) programs.

#### Botany

Botany is concerned with all aspects of the structure and function of both green and non-green plants and the relation of plants to their environments. The major aspects of the subject range from plant anatomy and morphology through genetics, biochemistry, physiology, ecology, taxonomy and palynology to mycology and plant pathology. The applications of these studies are particularly relevant in the fields of agriculture, horticulture, forestry, conservation and related environmental sciences.

Botany may be taken as a major or a minor study in the Science and Mathematics course (397).

#### Microbiology

Microbiology is the science that is concerned with the nature and behaviour of microscopic and sub-microscopic life forms known as fungi, bacteria and viruses. These microorganisms may affect man's way of life in many ways; some are the causative agents of human, animal and plant diseases: many are important in agriculture; while others are used in the production of a variety of foods and beverages. In some areas of the subject the study of immunology is important to an understanding of the ways in which man and animals may combat or avoid microbial diseases. Microbiology may be taken as a major or a minor study in the Science and Mathematics course (397), and medical students may specialize in it in the Bachelor of Science (Medicine) course (381). The subject is also a component of the medical and biological technology courses, and of the food technology and other Applied Sciences courses.

#### Psychology

Psychology, as the scientific study of behaviour, has application in several areas, and specifically in clinical, correctional, educational, and industrial settings. The core course is designed to cover basic psychological processes such as learning and perception, as well as physiological psychology, social psychology, research methods and instrumentation. There is some choice in the supporting courses to allow for special interests to be developed. The four-year professional program leading to the award of the degree of Bachelor of Science in Psychology (343) prepares students for specialized practice as psychologists. Psychological practice is also possible for students who have taken the four-year Psychology Honours program in the Science and Mathematics course (397) or the four-year Psychology Honours course in Arts (340). Science or Arts students not wishing to specialize may take courses in psychology at the pass level.

There is also a formal graduate course (825), leading to the award of the Master of Psychology degree.

#### Zoology

Zoology is the study of the structure, function, classification, genetics, evolution, habits and distribution of animals and their relationship to each other and to the environment. The courses leading to a science degree in Zoology are dependent on an adequate background in Biometry and Biochemistry. A major is usually taken in general Zoology in the Science and Mathematics course (397) but provision is made for specialization in Vertebrate Biology, Invertebrate Biology, Marine Ecology or Entomology. Zoology may also be taken as a minor study in the Science and Mathematics course (397).

#### **Faculty of Commerce**

#### Accountancy

In the Bachelor of Commerce full-time and part-time Accounting, Finance and Systems courses (351) are complemented by concurrent studies in law, economics, information systems and finance. Students may qualify for professional recognition in accountancy, and by their selection from a wide range of electives acquire an additional specialization in information systems, finance or business administration.

The subject, Accounting and Financial Management, is an element in the courses in Economics (353), Economic History (359), Econometrics (356), combined Economics/ Econometrics (358), Industrial Relations (355), and Marketing (349). Accounting and Financial Management is also one of the specializations in the combined Commerce/Law course (473).

There are two formal graduate courses, the Master of Commerce (Honours) (263), which involves both research and course work and the Master of Commerce (847), which is confined to course work.

#### Economics

Economics is the study of how economic systems work and of the general economic principles that emerge. While economic theory may be studied in isolation, its applications must take account of political, social, legal and moral constraints and implications. Both theory and applications are considered in all the specializations offered by the School of Economics. There are full-time and part-time courses leading to the award of the degree of Bachelor of Commerce in Economics (353), Econometrics (356), Economics/Econometrics (358), Economic History (359) and Industrial Relations (355). Economics is also a major study in the Arts course (340).

There are several formal graduate courses: the Master of Commerce (Honours) by research and course work in Economic History (259), Econometrics (260), Economics (264) and Industrial Relations (254): and the Master of Commerce by course work alone (847).

#### Marketing

Marketing is a management discipline concerned with the study of exchange processes involving organizations and individuals. The techniques of other disciplines such as accountancy, economics, mathematics, sociology and psychology all contribute to it. The School of Marketing offers full-time and part-time courses (349), leading to the award of the degree of Bachelor of Commerce. As the first year courses in Accounting and Financial Management, Economics and Marketing are similar transfers can usually be arranged at the end of first year without loss of standing.

There are two formal graduate courses: the Master of Commerce (Honours) (253) by research and course work and the Master of Commerce (847) by course work alone.

### Faculty of Engineering

There are four Schools offering undergraduate engineering courses: the Schools of Civil, Electrical, Mechanical and Industrial Engineering and Surveying, Students may obtain their engineering degree by full-time study, leading to the Bachelor of Engineering or Bachelor of Surveying; by part-time study, leading in most cases to the award of the degree of Bachelor of Science (Engineering); or by a combination of full-time and part-time study. In the Schools of Electrical and Mechanical and Industrial Engineering the content of the respective BE and BSc(Eng) courses is basically similar. All courses are accorded professional recognition.

Three Schools offer graduate courses only. They are Highway Engineering, Nuclear Engineering and Transportation and Traffic. The Graduate School of Engineering co-ordinates the graduate activities of all the engineering schools. The Master of Engineering Science or Master of Surveying Science is a faculty-wide degree available through all seven schools of the Faculty. It allows for flexibility of choice between formal course work and research, together with the possibility of interdisciplinary studies, and includes thirty different areas of specialization. The Faculty also contributes to the Graduate Diploma course in Human Communication (544), offered by the Division of Postgraduate Extension Studies.\*

#### **Civil Engineering**

Civil Engineering is concerned with the improvement of the environment, with the design and construction of water supply and conservation works, hydro-electric developments, highways, railways, bridges, tunnels, buildings, irrigation, sewerage and harbour and river developments. The undergraduate course leading to the award of the BE (362) degree may be taken full-time, part-time or by a combination of the two. There is a formal graduate course leading to the Master of Engineering Science (861).

#### Electrical Engineering

The nature of the study is indicated by the names of the departments of the School: Communications, Computing Science, Electric Power Engineering, Solid State Electronics, and Systems and Control. There are four degree courses: the full-time BE (364), the part-time BSc(Eng) (365), and the two double degrees of BSc BE and BA BE. Electrical Engineering is closely linked with the pure sciences, and the double degree of BSc BE may be obtained by one extra year of full-time study. The BA BE (372) degree course involves the normal BE program with minor omissions, and includes eighteen approved subjects from the Faculty of Arts. Electrical Engineering, specifically Computer Science, is also a minor study in the Science and Mathematics course (397). There is one formal graduate course leading to the award of the Master of Engineering Science (850).

#### **Highway Engineering**

Highway Engineering deals with road location, design and construction and with highway structures. It offers two formal graduate courses, one leading to the award of the Master of Engineering Science (852) degree and the other to the award of the Graduate Diploma in Highway Engineering (543).

#### Mechanical and Industrial Engineering

The School offers courses leading to the award of the BE degree full-time and the BSc(Eng) degree part-time in: Aeronautical Engineering (361 and 360), Industrial Engineering (366 and 367), Mechanical Engineering (368 and 369) and Naval Architecture (370 and 371). The emphasis in these courses is on the dynamic and thermodynamic aspects of the behaviour of a wide range of systems. The work of the engineer in all four areas is mutually complementary. There are three formal graduate courses: the Master of Engineering Science in Industrial Engineering (854), and the Graduate Diploma in Industrial Engineering (545).

#### **Nuclear Engineering**

Nuclear Engineering is concerned with the design and operation of nuclear reactors, and with the utilization of

nuclear energy, its cost and economics. There is one formal graduate course, leading to the award of the Master of Engineering Science (855) degree.

#### Surveying

Surveying adds the study of geodesy, photogrammetry, astronomy and land studies to its foundations in the basic sciences. The four-year, full-time and the seven-year, part-time courses (374) allow for extensive professional experience in the final year. The part-time course is being progressively replaced by a sandwich course (375), which consists of full-time University attendance for one session each year and full-time employment for the remainder of the year. There is one formal graduate course, leading to the award of the Master of Surveying Science (865) degree.

#### **Transportation and Traffic**

Transportation and Traffic is concerned with the flow and control of traffic by road, rail, air and sea. There are two formal graduate courses, one leading to the award of the Master of Engineering Science (859) degree, and the other to the award of the Graduate Diploma in Transport (546).

#### **Faculty of Law**

#### Law

Law, as a system of authority and regulation in society, must respond to social needs and changes. The Law School, as well as fulfilling its more traditional role of providing training for professional legal practice, seeks to produce roundly educated men and women ready to adapt to continuing change and sensitive to social issues. The location of the School on the University campus promotes this design by facilitating the necessary interdisciplinary study.

The School offers a full-time course in Jurisprudence/ Law (478), leading to the award of the combined degrees of BJuris LLB, and this provides the most comprehensive legal education. Combined courses are also available in Arts/Law (476), Commerce (Accounting, Finance and Systems)/Law (473), Commerce (Economics)/Law (474), Commerce (Industrial Relations)/Law (475) and Science/ Law (477). There is also a full-time Bachelor of Laws course (479) available only to graduates or graduands; and a Bachelor of Jurisprudence course (472), which does not lead to a professional qualification but which provides a basic knowledge of law by the study of selected legal subjects, plus legally relevant subjects from other faculties. As full-time study of Law is desirable, only one course, the LLB (479), may be taken part-time, and enrolment in this is limited.

\*In 1976 a new set of faculty-wide regulations for graduate diplomas was introduced. These provide for interdisciplinary study in the new Graduate Diploma in Engineering Developments (547), and for more flexibility in the Graduate Diplomas in Highway Engineering, Human Communication, Industrial Engineering and Transport. Students are advised to consult the Graduate School of Engineering Handbook.

#### **Faculty of Medicine**

Within the Faculty of Medicine the nine Schools listed below contribute to the Bachelor of Medicine Bachelor of Surgery course (380) and also offer graduate courses. The Faculty of Biological Sciences and the Faculty of Science provide courses or components of courses in biochemistry, microbiology, physics and chemistry in the Bachelor of Medicine Bachelor of Surgery course.

Medical students may interrupt their course for one year to specialize in anatomy, biochemistry, community medicine (human genetics and medical statistics), microbiology, pathology, or physiology and pharmacology for the award of the degree of Bachelor of Science (Medicine) (381). In the new five year medical course the disciplines listed below wherever possible are taught in an integrated manner.

#### Anatomy

Anatomy is the science of the macroscopic and microscopic structure of the human body and of its function and development. Anatomy is taught in Cellular Biology, Human Structure and Function and Medical Science in the Bachelor of Medicine Bachelor of Surgery course (380). Anatomy may also be taken as a major study in the Science course (397).

#### **Community Medicine**

Community Medicine is concerned with the study of community health and with the medical sciences in the community and the subject entitled *Community Medicine* covers: community medicine, family medicine and general practice; health services administration; medical law and ethics; preventive medicine and epidemiology; rehabilitation medicine; human genetics; medical statistics.

The School is responsible for Introductory Clinical Studies and also teaches in Human Behaviour in the Bachelor of Medicine Bachelor of Surgery course (380).

#### Medicine

Medicine deals with the diagnosis and treatment of disease and involves history taking, physical examination of patients and the interpretation of symptoms, signs and laboratory data in terms of altered structure and function. Stress is placed on the preventive, social, environmental, genetic and personality factors in disease processes.

Medicine is taught in Years 5 and 6 and the School contributes to the teaching of Clinical Studies, Integrated Clinical Studies and Medical Science in the Bachelor of Medicine Bachelor of Surgery course (380).

#### **Obstetrics and Gynaecology**

Obstetrics and gynaecology are the branches of medical science dealing respectively with the management of

pregnancy and labour; and with the functions and physical problems peculiar to women.

The School teaches the subject entitled *Obstetrics and Gynaecology* and teaches in Clinical Studies in the Bachelor of Medicine Bachelor of Surgery course (380).

#### **Paediatrics**

Paediatrics is the branch of medical science dealing with the study of children: emotional and physical aspects of their development, newborn physiology and disease, paediatric medicine and surgery, and social aspects of paediatrics.

The School teaches the subject entitled *Paediatrics* and teaches in Clinical Studies in the Bachelor of Medicine Bachelor of Surgery course (380).

#### Pathology

Pathology is the study of the causes and nature of disease processes, including the bodily effects of such processes. The course, which is integrated where applicable with other clinical and paraclinical disciplines in the medical curriculum, covers the principles and mechanisms of disease processes, the pathology of common and major diseases of the various anatomical systems of the body, as well as the principles of clinical-laboratory diagnostic methods. Its subject matter is covered in lectures, tutorial and histopathology classes, and in laboratory and post-mortem demonstrations.

Pathology is taught in Paraclinical Science, Medical Science and Integrated Clinical Studies in the Bachelor of Medicine Bachelor of Surgery course (380).

#### **Physiology and Pharmacology**

Physiology is the study of the manner in which organisms carry on their life processes, and pharmacology an extension of the application of physiological principles to the study of drugs and their action.

Physiology and Pharmacology are taught in Cellular Biology, Human Structure and Function, Paraclinical Science, Medical Science and Integrated Clinical Studies in the Bachelor of Medicine Bachelor of Surgery course (380).

#### Psychiatry

Psychiatry is concerned with disorders and diseases of the mind. The course covers in particular the technique of psychiatric examination, mental subnormality, psychoneuroses, psychopathy, affective disorders, schizophrenia, alcoholism and drug addiction, mental illness associated with brain disease, epilepsy, ageing and the mental diseases of the aged, psychotherapy, psychopharmacology, methods of physical treatment, and sociotherapy.

The School teaches the subject entitled *Psychiatry* and is responsible for Human Behaviour in the Bachelor of Medicine Bachelor of Surgery course (380).

#### Surgery

Surgery is taught in Years 5 and 6 and contributes to the teaching of Clinical Studies, Integrated Clinical Studies and Medical Science in the Bachelor of Medicine Bachelor of Surgery course (380). Common surgical conditions are covered, with emphasis on clinical experience, including the taking of histories, clinical examination of patients and the eliciting of physical signs. Specialized aspects of surgery covered include anaesthesia, orthopaedic and traumatic surgery and the various other surgical specialities.

### Faculty of Professional Studies

#### Education

Undergraduate studies in the School of Education provide part of the teacher education program in several courses: the Bachelor of Science Diploma in Education in Mathematics Education (407) and Science Education (408), the Bachelor of Science (Industrial Arts) Diploma in Education (401) and the Wool and Pastoral Science (Education Option) (321). The Education subjects in these courses involve foundation studies in the philosophy of education, educational psychology, sociology of education, research methods in education, and methods of teaching and curriculum studies, together with teaching practice.

There are three formal graduate courses, the Master of Education (891), the Master of Counselling (Education) (895) and the Diploma in Education (556).

#### **Health Administration**

Health Administration requires some degree of proficiency in many disciplines: architecture, law, public health, economics, statistics, political science, management science, psychology and sociology. All of these are orientated to the training of hospital and health service administrators. There are full-time and part-time (external) courses leading to the award of the degree of Bachelor of Health Administration (404), and two formal graduate courses: the Master of Health Administration (890) and the Master of Health Planning (894).

#### **Industrial Arts**

Industrial Arts is a subject area which studies the relationship between man and his material environment in the creation and production of artefacts. It is thus concerned with the design and production of material objects which are both useful and beautiful.

The full-time Bachelor of Science (Industrial Arts) Diploma in Education course (401) provides a broad education which embraces the natural and social sciences, technological studies, education, general studies and the arts. On completion of the degree, graduates are eligible to become certificated by the NSW Department of Education as four-year trained teachers. A graduate diploma course in Industrial Design (557) is available to qualified persons wishing to become professional industrial designers in the product design field.

#### Librarianship

Librarianship is concerned with all aspects of the selection, acquisition, cataloguing and indexing, storage, dissemination and retrieval of texts. In particular, librarianship seeks to identify, define and analyse theories and sound practices by which to assemble and organize items of recorded knowledge in all media in libraries of every kind in accordance with the information needs of the people who use them. To these ends, the study of librarianship is focused on the problems of materials handling, on methods of indicating the contents of documents, on needs and attitudes of users of information, and on application of information processing technology and management theory. The School of Librarianship offers three formal graduate courses: a Graduate Diploma in Librarianship (559), another in Archives Administration (560), and a Master of Librarianship (892), which provides education in broad areas of specialization beyond the basic professional level.

#### Social Work

The Bachelor of Social Work degree course (403) is a preparation for the professional practice of social work. Social work is directed towards problem-solving in the area of social relationships by promoting the effective interaction of individuals, groups, organizations and communities. Its methods are social casework, social group work, community work, administration and research. An important part of the course involves supervised learning in the field, usually in a social work agency. Formal study may be continued by way of the Master of Social Work course (893).

#### Faculty of Science

The Schools of the Faculty contribute programs to the Science and Mathematics course which lead to the award of the degree of Bachelor of Science. The School of Chemistry also offers a program in Pure and Applied Chemistry leading to the award of the degree of Bachelor of Science (391) and the School of Optometry offers a course leading to the Bachelor of Optometry (395). At the graduate level all schools in the Faculty contribute units to the Diploma in Current Science (552) course. This gives graduates and professional workers in science and science-based disciplines an opportunity to renew acquaintance with the basic aspects of their subject and to learn of the latest developments in it or in some other scientific subject that has become important in their work. المريح والأرم المحال محاطرا الغرور

#### Optometry

Optometry is the art and science of vision care. The School of Optometry offers the Bachelor of Optometry course (395), the sole course in New South Wales which leads to professional qualification as an optometrist. Students may also take out the double degree of Bachelor of Science/Bachelor of Optometry. One formal graduate course is offered: The Master of Optometry (876).

#### Chemistry

Chemistry is an essential part of the background to a wide range of science disciplines. It is the study of matter in respect of its structure at the level of individual atoms and molecules, and of the manner in which such structures can be altered by chemical reactions. A major in chemistry may be taken in the Science and Mathematics course (397), the Pure and Applied Chemistry Course (391), and the courses in combined Science/Laws (477) and in Science (Education) (406). In the BA degree course in the Faculty of Arts chemistry is offered as a minor study. See also *Industrial Chemistry*. There are two formal graduate courses: the Master of Chemistry (877) and the Diploma in Food and Drug Analysis (551).

#### **Mathematics**

Mathematics at an abstract level, where the emphasis is on studying and extending the theory, is Pure Mathematics. Other branches (Applied Mathematics, Theoretical and Applied Mechanics, and Statistics) deal with applications of mathematics. Mathematics is basic to the study of all disciplines which use quantitative methods, and to some others of a more qualitative kind. As a consequence, mathematics courses are available in nearly all Faculties of the University and are essential for courses under the control of the Board of Studies in Science and Mathematics, and the Faculties of Engineering, Applied Science and Architecture. Mathematics, of course, is also a discipline in its own right and may be studied as such or in close combination with other disciplines (eg economic planning, management and environmental studies) either in the Science and Mathematics course (397) or the Arts course (340). There are three formal graduate courses: a Master of Mathematics (874) and a Master of Statistics (875) offered by the Faculty of Science and an MA degree course (816) at pass level, offered by the Faculty of Arts.

#### **Physics**

Physics is the fundamental natural science, and it provides the basic concepts for the development of many other sciences and of engineering: in the final analysis every area of nature falls within its domain. In this University the chief research interest is in Solid State.

Physics may be taken as a major or a minor study in the Science and Mathematics course (397) and in the course

in Science Education (408). Programs of study are available in applied physics, physics or theoretical physics.

Applied physics is concerned with the application of physical science to the solution of technological problems, notably in regard to materials and to instrumentation (measurement science).

Theoretical physics offers a strong background in mathematical techniques used in modern theoretical physics.

There is one formal graduate course: the Master of Physics (873).

#### Australian Graduate School of Management

Graduate courses in management leading to the degree of Master of Business Administration (835) or Master of Public Administration (836) are offered by the Australian Graduate School of Management. Normally of two fulltime years, these courses provide an environment for a symbiotic relationship between tomorrow's business and public sector managers. The research degree of Doctor of Philosophy is also available. The degree normally involves at least three years of full-time study on a research project. The AGSM also provides continuing education facilities for managers and through activities in this area, maintains close contact with contemporary management. There are three forms of activity: Executive Development Programs, which are residential courses broadly designed to prepare executives for the responsibilities of general management; Short Courses, on specific topics or functional areas of management in which the School has special expertise: Seminars, of a more exploratory nature.

#### **Board of Studies in Science and Mathematics**

The Board supervises the Science and Mathematics course (397) in which programs are offered by the Schools of the Faculty of Biological Sciences, the Schools of the Faculty of Science as well as the following Schools from other Faculties: Anatomy, Electrical Engineering (Computer Science), Geography, Geology, History and Philosophy of Science, and Physiology. Additional programs are available in Marine Sciences and others leading to the Graduate Diploma courses in Physiotherapy and Occupational Therapy at the Cumberland College of Health Sciences.

### Board of Studies in General Education

#### **General Studies**

A distinctive feature of undergraduate courses in all faculties other than Arts and Law is the inclusion of subjects of a general educational character outside the student's field of specialization. Students enrolled in these courses may choose from a wide range of electives in the humanities, social sciences and the arts with opportunity being given for interdisciplinary studies and for students to devise their own program of study in these fields. The General Studies program is designed to give students in the technical, scientific and vocational courses an appreciation of the contributions of the humanities, social sciences and the arts to contemporary thought and, as a result, a fuller understanding of the social context of their own professions.

A graduate course (910) is available, leading to the award of the degree of MGenStud.

## Identification of Subjects by Number

Each of the subjects taught in the University is identifiable both by number and by name. This is a fail-safe measure at the points of enrolment and examination against a student nominating a subject other than the one intended. Subject numbers are allocated by the Assistant Registrar, Examinations and Student Records, and the system of allocation is:

**1.** The School offering a subject is indicated by the number before the decimal point;

**2.** If a subject is offered by a Department within a School, the first number after the decimal point identifies that Department;

**3.** The position of a subject in a sequence is indicated by the third number after the decimal point. For example, 2 would indicate that the subject is the second in a sequence of subjects;

4. Graduate subjects are indicated by the suffix G.

As indicated above, a subject number is required to identify each subject in which a student is to be enrolled and for which a result is to be returned. Where students may take electives within a subject, they should desirably be enrolled initially in the particular elective, and the subject numbers allotted should clearly indicate the elective. Where it is not possible for a student to decide on an elective when enrolling or re-enrolling, and separate examinations are to be held in the electives, Schools should provide to the Examinations and Student Record Section in April (Session 1) and August (Session 2) the names of students taking each elective. Details of the actual dates in April and August are set out in the Calendar of Dates earlier in this volume. Those subjects taught in each Faculty are listed in full in the handbook of that Faculty, together with the subject description and the required textbook list, in the section entitled Subject Descriptions and Textbooks.

The identifying numbers for each School are set out below.

	School, Department etc	Faculty
1	School of Physics	Science
2	School of Chemistry	Science
3	School of Chemical Engineering	Applied Science
4	School of Metallurgy	Applied Science
5	School of Mechanical and Industrial Engineering	Engineering
6	School of Electrical Engineering	Engineering
7	School of Mining Engineering	Applied Science
8	School of Civil Engineering	Engineering
9	School of Wool and Pastoral Sciences	Applied Science
10	School of Mathematics	Science
11	School of Architecture	Architecture
12	School of Psychology	<b>Biological Sciences</b>
13	School of Textile Technology	Applied Science
14	School of Accountancy	Commerce
15	School of Economics	Commerce
16	School of Health Administration	Professional Studies
17	<b>Biological Sciences</b>	<b>Biological Sciences</b>
18	Department of Industrial Engineering	Engineering
19	School of Transportation and Traffic	Engineering
20	School of Highway Engineering	Engineering
21	Department of Industrial Arts	Professional Studies
22	School of Chemical Technology	Applied Science
23	School of Nuclear Engineering	Engineering
25	School of Applied Geology	Applied Science

	School, Department etc	Faculty			
26	Department of General	Board of Studies in	70	School of Anatomy	Medicine
	Studies	General Education	71	School of Medicine	Medicine
27	School of Geography	Applied Science	72	School of Pathology	Medicine
28	School of Marketing	Commerce	73	School of Physiology	Medicine
29	School of Surveying	Engineering		and Pharmacology	
30	Department of Behavioural Science	Commerce	74 75	School of Surgery	Medicine Medicine
31	School of Optometry	Science		and Gynaecology	
33	Graduate School of Business	Commerce	76 77	School of Paediatrics	Medicine
35	School of Building	Architecture	77	School of Psychiatry	Medicine
36	School of Town Planning	Architecture	79	Medicine	Medicine
28	School of Food	Applied Science	80	Faculty of Medicine	
30	Technology		85	Australian Graduate	AGSM
40	Protessorial Board		00	Eaculty of Law	Law
41	School of Biochemistry	Biological Sciences	90	Division of Postgraduate	
42	School of Biological Technology	Biological Sciences	97	Extension Studies	
43	School of Botany	Biological Sciences			
44	School of Microbiology	<b>Biological Sciences</b>			
45	School of Zoology	Biological Sciences			
50	School of English	Arts			
51	School of History	Arts			
52	School of Philosophy	Arts			
53	School of Sociology	Arts			
54	School of Political Science	Arts			
55	School of Librarianship	Professional Studies			
56	School of French	Arts			
57	School of Drama	Arts			
5 <b>8</b>	School of Education	Professional Studies			
59	School of Russian	Arts			
62	School of History and Philosophy of Science	Arts			
63	School of Social Work	Professional Studies			
64	School of German	Arts			
65	School of Spanish and Latin American Studies	Arts			
66	Subjects Available from Other Universities				
68	Board of Studies in Science and Mathematics	Board of Studies in Science and Mathematics			

## **Course Outline**

## Centre for Medical Education Research and Development

The Centre was established by Council in 1973 within the Faculty of Medicine for the purposes expressed in its title.

## Regional Teacher Training Centre for Health Personnel

The Regional Teacher Training Centre for Health Personnel, which is located within the Centre for Medical Education Research and Development, was established in 1973 by agreement between the World Health Organization, the University and the Australian Government. Its goal is to help raise the standards of health care in the Western Pacific Region, including Australia, by increasing the educational competence of teachers in health sciences. The Centre provides workshops and courses within Australia at both the national and international level, and by offering consultant services helps countries within the region to mount their own workshops and projects. One of its ultimate goals is to develop national teacher training centres in the countries of the Western Pacific Region. The establishment of such centres has already been achieved in Korea and the Philippines.

## Master of Health Personnel Education\*

The Centre offers a formal course leading to the degree of Master of Health Personnel Education.

#### 900 Master of Health Personnel Education MHPEd

The conditions for the award of the Master of Health Personnel Education degree are set out later.

The course is designed to increase the educational competence of teachers of health personnel, with particular regard to the health care needs of their respective countries. A major emphasis in the course is on student activity, individually and in small groups.

The one year full-time Master's course may be taken over two years on a part-time basis. There is a further requirement for both full-time and part-time candidates to undertake six months' approved field work, usually in the student's own country, and to submit a report on that field work.

		Hours S1	per week S2
16.960G	Organization and Manage- ment for Health		
	Personnel Education	2	0
33.344G	Educational Process in		
	Small Groups	2	0
40.101G	Learning and Teaching	2	0
40.103G	Instructional Design	2	0
40.105G	Curriculum Planning	0	2
40.106G	Teaching Methods	0	2
40.107G	Evaluation	0	2
40.108G	Educational Change	0	2
		8	8

\*As the course is administered by the Professorial Board, the course outline given here is the only one appearing in the Calendar. Details of the conditions for the award of the MHPEd degree appear later in this volume.

#### Academic Electives

Appropriate subjects offered in other schools

#### **Project Electives**

Personal investigation formally proposed, supervised and evaluated

A total of 8 hours per week over 14 weeks is required in Academic and/or Project Electives

Approved field work followed by Project Report Up to 8 hours per week in either Session 1 and/or Session 2

Up to 8 hours per week in either Session 1 and/or Session 2

6 months

## Subject Descriptions and Textbooks

#### 16.960G

### Organization and Management for Health Personnel Education

Designed for students to critically evaluate existing organization patterns relevant to health personnel education. The major schools of management thought (eg classical, human relations, contingency theory through an analysis of the work of representative writers. An analysis of leadership, change and conflict in organizations.

#### Textbooks

Perrow C. Complex Organizations: A Critical Essay Scott Foresman

Pugh D. S. ed Organization Theory Penguin

Pugh D. S. et al Writers on Organization Penguin

#### 33.344G Educational Process in Small Groups

Group processes and the effective use of groups for task performance, personal growth and self-directed learning. The role of primary and secondary groups in society and the growing importance of groups for accomplishing a variety of tasks, particularly in health education and health care. Theories of group structure and process, with emphasis on experiential learning. Attention to improving individual skills in listening, communicating, leading, counselling and consulting, and group skills in goal setting, team building, problem solving, conflict resolution and evaluation.

#### Textbooks

Applebaum R. & Anatol K. The Process of Group Communication SRA Chicago

Dunphy D. C. The Primary Group: A Handbook for Analysis of Field Research Appleton-Century-Crofts McLeish J., Matheson W. & Park J. The Psychology of the Learning Group Hutchinson

#### 40.101G

#### Learning and Teaching

Primarily the theoretical and practical aspects of human learning. Recent research on skill and concept acquisition, problem-solving, memory, and motivation. The effects of cultural and emotional factors in learning. Emphasis throughout on the skills required to identify and analyze the differences between individuals in their approach to a variety of learning tasks. Secondary focus on the nature of the connections between learning and teaching and the development of an ability to devise teaching procedures and environments which are appropriate to specific learning tasks.

#### Textbooks

Borger R. & Seaborne A. E. M. The Psychology of Learning Penguin

Gagne R. M. Essentials of Learning for Instruction Dryden P

Holding D. H. Principles of Training Pergamon Holt J. How Children Fail Penguin

### 40.103G Instructional Design

The derivation and justification of educational objectives, the planning for implementation of a course of instruction, the setting of standards for assessing student achievement, and the development of criteria for evaluating instruction. Includes task description and task analysis, delineation of entry and terminal behaviours, sequencing of instruction and choices of methods, measurement of achievement of objectives, and comparison of planned with actual instruction and outcomes.

#### Textbooks

Gagne R. M. & Briggs L. J. Principles of Instructional Design Holt, Rinehart & Winston

Kemp J. E. Instructional Design: A Plan for Unit and Course Development Fearon

## 40.105G Curriculum Planning

Curriculum theory and its application to the health professions. Professional performance, describing student competencies, identifying a body of knowledge, planning student learning and conducting curriculum evaluation. By the end of Session 2 each student will have developed a sample curriculum package.

#### Textbook

Segall A. J., Vanderschmidt H., Ruanne B. & Frostman T. Systematic Course Design for the Health Fields Wiley

## 40.106G Teaching Methods

The practical aspects of teaching methods. Problems experienced by the candidates in their own situation. Certain theories and principles of learning as they apply to the various teaching methods studied. Content units include: **1.** microteaching (reinforcement, questioning, explaining); **2.** matching teaching methods to course intentions as an integrated approach to teaching; **3.** individualized instruction and media; **4.** large group teaching methods.

#### Textbooks

Bligh D. What's the Use of Lectures? Penguin Hyman R. T. Ways of Teaching Lippincott Turney C. et al Sydney Microskills Series 1 U of Sydney 1973

## 40.107G Evaluation

How evaluation occurs in the health professions. Includes course examinations, grading, comprehensive examinations, teacher evaluation, instructional evaluation, the national question bank, and national studies of health education problems. Subject link with that on 40.108G Educational Change.

## 40.108G Educational Change

Aims to assist health educators plan, implement and evaluate change within an educational institution. In producing a proposal for educational change, students are required to specify an educational problem, elaborate a rationale, generate appropriate solutions, develop plans for implementing the proposed solutions and evaluate the outcomes. Critical issues include change agent ethics, ways and means of stabilizing change, and institutional self-renewal.

# Conditions for the Award of Degrees

Rules, regulations and conditions for the award of first degrees are set out in the appropriate Faculty Handbooks.

For the list of undergraduate courses and degrees offered see Disciplines of the University: Faculty Table (Undergraduate Study) earlier in the Calendar.

#### Conditions for the Award of First Degrees

#### Conditions for the Award of Higher Degrees

Conditions for the award of the degrees of Doctor of Medicine and Doctor of Philosophy, and masters degrees and graduate diplomas are set out in Conditions for the Award of Higher Degrees in the appropriate Faculty Handbooks.

The following is the list of higher degrees and graduate diplomas of the University, together with the publication\* in which the conditions for the award are published.

For the list of graduate degrees by research and course work, arranged in faculty order, see Disciplines of the University: Faculty Table (Graduate Study) earlier in the Calendar.

For the statements Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the use of Higher Degree Theses see later in this section.

Title	Abbreviation	Calendar/Handbook	
Doctor of Science	DSc	Calendar	Higher Degrees
Doctor of Letters	DLitt	Calendar	
Doctor of Laws	LLD	Calendar	

\*Not including General Studies Handbook.

## Calendar

Title	Abbreviation	Calendar/Handbook
Doctor of Medicine in the Faculty of Medicine	MD	Calendar Medicine
Doctor of Philosophy	PhD	Calendar and all faculties
Master of Applied Science	MAppSc	Applied Science
Master of Architecture	MArch	Architecture
Master of Arts	MA(Hons)	Arts
	МА	Military Studies Arts Military Studies
Master of Building	MBuild	Architecture
Master of Business Administration	MBA	Commerce**
Master of Business Administration	MBA	AGSM
Master of Chemistry by Formal Course	MChem	Sciences*
Master of Commerce (Hopours)	MCom(Hons)	Commerce
Master of Commerce by Formal Course	moon(nons)	Commoroo
Work	MCom	Commerce
Master of Counselling (Education)	MCouns(Ed)	Professional Studies
Master of Education	MEd	Professional Studies
Master of Engineering Master of Engineering without Supervision	ME	Applied Science Engineering Military Studies Sciences*
Master of Engineering Science	MEngSc	Engineering
Master of General Studies	MGenStud	General Studies
Master of Health Administration	MHA	Professional Studies
Master of Health Personnel Education	MHPEd	Calendar†
Master of Health Planning	MHP	Professional Studies
Master of Landscape Architecture	MLArch	Architecture
Master of Laws by Research	LLM	Law
Master of Librarianship by Formal Course		
Work Master of Librarianshin by Besearch	MLib	Professional Studies
Master of Mathematics	MMath	Sciences*
Master of Ontometry	MOntom	Sciences*
Master of Physics	MPhysics	Sciences*
Master of Psychology	MPsychol	Sciencest
Master of Public Administration		AGSM
Master of Science	MSo	Applied Science
Master of Science without Supervision	WSC	Engineering Medicine Military Studies Professional Studies Sciences*‡
Master of Science (Acoustics)	MSc(Acoustics)	Architecture
Master of Science and Society by Formal Course Work	MScSoc	Sciences*
Master of Science (Biotechnology)	MSc(Biotech)	Sciencest
Master of Science (Building)	MSc(Building)	Architecture

Title	Abbreviation	Calendar/Handbook	
Master of Science (Building Services)	MSc(Building Services)	Architecture	
Master of Social Work by Research Master of Social Work by Formal Course Work	MSW	Professional Studies	
Master of Statistics	MStats	Sciences*	
Master of Surgery	MS	Medicine	
Master of Surveying Master of Surveying without Supervision	MSurv	Engineering	
Master of Surveying Science	MSurvSc	Engineering	
Master of Town Planning	MTP	Architecture	
Graduate Diploma	GradDip	Applied Science Architecture Engineering Sciences*‡	Graduate Diplomas
Graduate Diploma in the Faculty of Professional Studies	DipArchivAdmin DipEd DipLib GradDip	Professional Studies	
**Course withdrawn at end of 1977. *Faculty of Science. †Professorial Board.			

Fiolessonal Board.

**‡Faculty of Biological Sciences.** 

**1.** The degree of Doctor of Science may be granted by the Council on the recommendation of the Professorial Board for an original contribution (or contributions) of distinguished merit to some branch of Science.

**2.** A candidate for the degree of Doctor of Science shall hold a degree of the University of New South Wales or shall have been admitted to the status of such a degree.

A candidate who holds a degree of another approved university may present himself for the degree of Doctor of Science in the University of New South Wales provided that he has been engaged in advanced study and research in the University for a period of not less than four years.

No candidate may present himself for the degree of Doctor of Science until ten years after the award of his original degree.

**3.** The degree shall be awarded on the published work\* of the candidate although in special circumstances additional unpublished work may be considered provided that these circumstances are recognised as sufficient by the Professorial Board.

4. A candidate for the degree shall forward to the Registrar an application together with:

A Four copies (wherever possible) of the work referred to in paragraph 3.

B Any additional work, published or unpublished, which he may desire to submit in support of his application.

C A declaration indicating those sections of the work, if any, which have been submitted previously for a degree or other award in any university.

\*In these rules, the term 'published work' shall mean printed as a book or in a periodical or as a pamphlet readily available to the public. The purpose of requiring publication is to ensure that the work submitted has been available for criticism. The examiners may disregard any of the work submitted if, in their opinion, it has not been available for criticism.

#### Doctor of Science (DSc)

5. Every candidate in submitting his published work and such unpublished work as he deems appropriate shall submit a short discourse describing the research activities embodied in his submission. The discourse shall make clear the extent of originality and the candidate's part in any collaborative work.

6. The discourse and list of published work shall be forwarded by the Registrar to the Research and Higher Awards Committee, who shall recommend to the Professorial Board which Faculty or Board of Studies Higher Degree Committee shall conduct the examination or whether a committee should be appointed by the Professorial Board for the purpose.

7. On receipt of a report from the appropriate committee (that is, the Higher Degree Committee of the appropriate Faculty or Board of Studies or the Committee appointed by the Professorial Board) that the work referred to in paragraph 3. above is *prima facie* worthy of examination, the work shall be submitted to three examiners appointed by the Professorial Board on the recommendation of the committee. The examiners may require the candidate to answer orally or in writing any questions concerning his work.

8. On receipt of the report from the appropriate committee that the work referred to in paragraph 3. is *prima facie* worthy of examination, a candidate shall be required to pay such fees as determined by Council.

**Doctor of Letters (DLitt) 1.** The degree of Doctor of Letters may be granted by the Council on the recommendation of the Professorial Board for an original contribution (or contributions) of distinguished merit to Letters.

2. A candidate for the degree of Doctor of Letters shall hold a degree of the University of New South Wales or shall have been admitted to the status of such a degree.

A candidate who holds a degree of another approved university may present himself for the degree of Doctor of Letters in the University of New South Wales provided that he has been engaged in advanced study and research in the University for a period of not less than four years.

No candidate may present himself for the degree of Doctor of Letters until ten years after the award of his original degree.

3. The degree shall be awarded on the published work\* of the candidate although in special circumstances additional unpublished work may be considered provided that these circumstances are recognised as sufficient by the Professorial Board.

4. A candidate for the degree shall forward to the Registrar an application together with:

A Four copies (wherever possible) of the work referred to in paragraph 3.

B Any additional work, published or unpublished, which he may desire to submit in support of his application.

C A declaration indicating those sections of the work, if any, which have been submitted previously for a degree or other award in any university.

5. Every candidate in submitting his published work and such unpublished work as he deems appropriate shall submit a short discourse describing the work embodied in his submission. The discourse shall make clear the extent of originality and the candidate's part in any collaborative work.

6. The discourse and list of published work shall be forwarded by the Registrar to the Research and Higher Awards Committee, who shall recommend to the Professorial Board which Faculty or Board of Studies Higher Degree Committee shall conduct the examination or whether a committee should be appointed by the Professorial Board for the purpose.

\*See this footnote earlier in this section.

7. On receipt of a report from the appropriate committee (that is, the Higher Degree Committee of the appropriate Faculty or Board of Studies or the Committee appointed by the Professorial Board) that the work referred to in paragraph 3. above is *prima facie* worthy of examination, the work shall be submitted to three examiners appointed by the Professorial Board on the recommendation of the committee. The examiners may require the candidate to answer orally or in writing any questions concerning his work.

8. On receipt of the report from the appropriate committee that the work referred to in paragraph 3. is *prima facie* worthy of examination, a candidate shall be required to pay such fees as determined by Council.

1. The degree of Doctor of Laws may be granted by the Council on the recommendation of the Professorial Board for an original contribution (or contributions) to legal learning of such merit that it has achieved or is likely to achieve general recognition by scholars in the field.

2. A candidate for the degree of Doctor of Laws shall hold a degree of the University of New South Wales or shall have been admitted to the status of such a degree.

A candidate who holds a degree of another approved university may present himself for the degree of Doctor of Laws in the University of New South Wales provided that he has been engaged in advanced study and research in this University for a period of not less than two years.

Except with the consent of the Professorial Board, no candidate shall present himself for the degree of Doctor of Laws until six years after the award of the original degree.

3. The degree shall be awarded on the published work\* of the candidate although in special circumstances additional unpublished work may be considered provided that these circumstances are recognised as sufficient by the Professorial Board.

4. A candidate for the degree shall forward to the Registrar an application together with:

A Four copies (wherever possible) of the work referred to in paragraph 3.

B Any additional work published or unpublished which he may desire to submit in support of his application.

C A declaration indicating those sections of the work, if any, which have been submitted previously for a degree or other award in any university.

5. Every candidate in submitting his published work and such unpublished work as he deems appropriate shall submit a short discourse describing the research activities embodied in his submission. The discourse shall make clear the extent of the originality of the candidate's part in any collaborative work.

6. The discourse and list of published work shall be forwarded by the Registrar to the Research and Higher Awards Committee who shall recommend to the Professorial Board whether the Faculty of Law Higher Degree Committee shall conduct the examination or whether a committee shall be appointed by the Professorial Board for the purpose.

7. On receipt of a report from the appropriate committee (that is, the Faculty of Law Higher Degree Committee or the committee appointed by the Professorial Board) that the work referred to in paragraph 3. above is *prima facie* worthy of examination, the work shall be submitted to three examiners appointed by the Professorial Board on the recommendation of the Committee. The examiners may require the candidate to answer orally or in writing any questions concerning his work.

8. Upon receipt of the report from the appropriate committee that the work referred to in paragraph 3. is *prima facie* worthy of examination a candidate shall be required to pay such fees as determined by Council.

<sup>\*</sup>See this footnote earlier in this section.

#### Doctor of Medicine (MD) in the Faculty of Medicine

1. The degree of Doctor of Medicine may be granted by the Council on the recommendation of the Professorial Board for an original and meritorious contribution to some branch of medicine.

Qualifications 2. A candidate before being eligible for the degree of Doctor of Medicine shall:

A hold the degrees of Bachelor of Medicine and Bachelor of Surgery with honours from the University of New South Wales with at least five years' standing; or

B hold the degrees of Bachelor of Medicine and Bachelor of Surgery and of Bachelor of Science (Medicine) from the University of New South Wales with at least five years' standing in respect of the degree of Bachelor of Medicine and Bachelor of Surgery; or

C if he holds the degrees of Bachelor of Medicine and Bachelor of Surgery with at least five years' standing from the University of New South Wales but without honours, submit for the approval of the Faculty of Medicine (hereinafter referred to as 'the Faculty'), such other evidence in support of his candidature as may be approved by the Faculty; or

D hold the degrees of Bachelor of Medicine and Bachelor of Surgery with honours of an approved university other than the University of New South Wales with at least five years' standing and have been associated with the University of New South Wales or one of its teaching hospitals for a period of at least six sessions; or

E in other cases, submit such evidence of general and professional qualifications in support of his candidature as may be approved by the Faculty of Medicine on the recommendation of the Faculty Higher Degree Committee.

**3.** Notwithstanding any other provisions of these conditions the Faculty may require an applicant to demonstrate fitness for candidature by carrying out such work and sitting for such examinations as the Faculty may determine.

4. A candidate may be awarded the degree on the basis of a thesis or on the basis of his published work\*.

**5.** Candidates, other than those who hold the degrees of MB BS of the University of New South Wales shall work under such supervision as the Faculty Higher Degree Committee may determine.

**6.** The progress of supervised candidates shall be reviewed annually by the Faculty Higher Degree Committee. As a result of such review, and the recommendation of the Head of School or Department in which the candidate is registered, the Committee may terminate the candidature or take such other action as is considered appropriate.

**Thesis 7.** Where a candidate elects to proceed to the degree by thesis he shall lodge an application with the Registrar on the prescribed form.

8. The thesis shall comply with the following requirements:

A if a candidate is not a graduate of the University of New South Wales, the greater proportion of the work described must have been carried out in the University or in one of its teaching hospitals; save that in special cases the Faculty may permit candidates to conduct their work at other places where special facilities not possessed by the University may be available or where the subject of the research is uniquely located. Such permission will be granted only if the candidate spends such period of time within the University and under such supervision as may be determined by the Faculty on the recommendation of the Higher Degree Committee;

B it must be an original and meritorious contribution to knowledge of the subject;

C it must be written in English and reach a satisfactory standard of expression and presentation;

\*See this footnote earlier in this section.

**D** it must consist of the candidate's own account of his research. In special cases work done conjointly with other persons may be accepted provided the Faculty is satisfied on the candidate's part in the joint research.

**9.** A candidate may not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.

**10.** Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may also submit any work he has published whether or not such work is related to the thesis.

**11.** It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968 the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

**12.** All copies of the thesis shall contain a short abstract of the thesis comprising not more than 600 words, which inter alia, shall indicate wherein the thesis has made an original contribution and its significance to medicine.

**13.** Candidates for the degree, other than graduates of the University of New South Wales, shall present themselves for examination not later than ten academic sessions from the date of their registration. In special cases an extension of time may be granted by the Faculty Higher Degree Committee.

**14.** There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Faculty, at least two of whom shall be external examiners.

15. After the examiners have read the thesis they may:

A recommend the award of the degree;

B request additional work on the thesis before proceeding with the examination;

C arrange for the candidate to be examined orally or in writing on the subject of the thesis, published work or subjects relevant thereto;

D recommend that the candidate be not awarded the degree of Doctor of Medicine.

**16.** At the conclusion of the examination, the examiners shall submit to the Faculty a concise report on the merits of the thesis and their recommendations.

**17.** Where a candidate elects to proceed to the degree on the basis of published work he shall forward to the Registrar an application on the prescribed form. With such application the candidate shall forward:

A Four Copies (wherever possible) of his published work;

B A statutory declaration indicating those sections of the work, if any, which have been submitted previously for a degree or diploma in any university.

**18.** Every candidate in submitting his published work and such unpublished work as he deems appropriate shall submit a short discourse describing the research activities embodied in his submission. The discourse shall make clear the extent of originality and the candidate's part in any collaborative work.

**19.** There shall normally be three examiners of the work, appointed by the Professorial Board on the recommendation of the Faculty, at least two of whom shall be external examiners. The examiners may require the candidate to answer orally or in writing any questions concerning his work.

20. At the conclusion of the examination the examiners shall submit a concise report to the Faculty on the merits of the published work and their recommendation.

Fees 21. A candidate shall be required to pay such fees as may be determined from time to time by the Council.

Doctor of
Philosophy (PhD)
1. The degree of Doctor of Philosophy may be granted by the Council on the recommendation of the Professorial Board to a candidate who has made an original and significant contribution to knowledge and who has satisfied the following requirements:

Qualifications 2. A candidate for registration for the degree of Doctor of Philosophy shall:

A hold an honours degree from the University of New South Wales; or

B hold an honours degree of equivalent standing from another approved university; or

C if he holds a degree without honours from the University of New South Wales or other approved university, have achieved by subsequent work and study a standard recognised by the appropriate Faculty or Board of Studies as equivalent to honours; or

D in exceptional cases, submit such other evidence of general and professional qualifications as may be approved by the Professorial Board on the recommendation of the Faculty or Board of Studies.

3. When the Faculty or Board of Studies is not satisfied with the qualifications submitted by a candidate, the Faculty or Board of Studies may require him, before he is permitted to register, to undergo such examination or carry out such work as the Faculty or Board of Studies may prescribe.

**Registration 4.** A candidate for registration for a course of study leading to the degree of Doctor of Philosophy shall:

A apply to the Registrar on the prescribed form at least one calendar month before the commencement of the session in which he desires to register; and

B submit with his application a certificate from the head of the University school in which he proposes to study stating that the candidate is a fit person to undertake a course of study and research leading to the degree of Doctor of Philosophy and that the school is willing to undertake the responsibility of supervising the work of the candidate and of reporting to the Faculty or Board of Studies at the end of the course on the merits of the candidate's performance in the prescribed course.

5. Subsequent to registration the candidate shall pursue a program of advanced study and research for at least six academic sessions, save that:

A a candidate fully engaged in advanced study and research for his degree, who before registration was engaged upon research to the satisfaction of the Faculty or Board of Studies, may be exempted from not more than two academic sessions;

**B** in special circumstances the Faculty or Board of Studies may grant permission for the candidate to spend not more than one calendar year of his program in advanced study and research at another institution provided that his work can be supervised in a manner satisfactory to the Faculty or Board of Studies;

C in exceptional cases, the Professorial Board on the recommendation of the Faculty or Board of Studies may grant permission for a candidate to be exempted from not more than two academic sessions.

6. A candidate who is fully engaged in research for the degree shall present himself for examination not later than ten academic sessions from the date of his registration. A candidate not fully engaged in research shall present himself for examination not later than twelve academic sessions from the date of his registration. In special cases an extension of these times may be granted by the Faculty or Board of Studies.

7. The candidate shall be required to devote his whole time to advanced study and research, save that:

A the Faculty or Board of Studies may permit a candidate on application to undertake a limited amount of University teaching or outside work which in its judgment will not interfere with the continuous pursuit of the proposed course of advanced study and research:

B a member of the full-time staff of the University may be accepted as a part-time candidate for the degree, in which case the Faculty or Board of Studies shall prescribe a minimum period for the duration of the program;

C in special circumstances, the Faculty or Board of Studies may, with the concurrence of the Professorial Board, accept as a part-time candidate for the degree a person who is not a member of the full-time staff of the University and is engaged in an occupation which, in its opinion, leaves the candidate substantially free to pursue his program in a school of the University. In such a case the Faculty or Board of Studies shall prescribe for the duration of his program a minimum period which, in its opinion, having regard to the proportion of his time which he is able to devote to the program in the appropriate University school is equivalent to the six sessions ordinarily required.

8. Every candidate shall pursue his program under the direction of a supervisor appointed by the Faculty or Board of Studies from the full-time members of the University staff. The work, other than field work, shall be carried out in a School of the University save that in special cases the Faculty or Board of Studies may permit candidates to conduct their work at other places where special facilities not possessed by the University may be available. Such permission will be granted only if the direction of the work remains wholly under the control of the supervisor.

9. Not later than two academic sessions after registration the candidate shall submit the topic of his research for approval by the Faculty or Board of Studies. After the topic has been approved it may not be changed except with the permission of the Faculty or Board of Studies.

10. A candidate may be required by the Faculty or Board of Studies to attend a formal course of study appropriate to his work.

11. On completing his course of study every candidate must submit a thesis which complies with the following requirements:

Thesis

A the greater proportion of the work described must have been completed subsequent to registration for the PhD degree;

B it must be an original and significant contribution to the knowledge of the subject;

C it must be written in English except that a candidate in the Faculty of Arts may be required by the Faculty on the recommendation of the supervisor to write the thesis in an appropriate foreign language;

D it must reach a satisfactory standard of expression and presentation.

12. The thesis must present the candidate's own account of his research. In special cases work done conjointly with other persons may be accepted, provided the Faculty or Board of Studies is satisfied on the candidate's part in the joint research.

**13.** Every candidate shall be required to submit with his thesis a short abstract of the thesis comprising not more than 600 words.

The abstract shall indicate:

- A the problem investigated;
- B the procedures followed;
- C the general results obtained;
- D the major conclusions reached;

but shall not contain any illustrative matter, such as tables, graphs or charts.

**14.** A candidate may not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.

Entry for **15.** The candidate shall give in writing two months' notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

**16.** Four copies of the thesis shall be submitted together with a certificate from the supervisor that the candidate has completed the course of study prescribed in his case. The four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses<sup>†</sup>. The candidate may also submit any work he has published whether or not such work is related to the thesis.

**17.** It shall be understood that the University retains the four copies of the thesis submitted for examination, and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968 the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

**18.** There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Faculty or Board of Studies, at least one of whom shall be an external examiner.

**19.** After examining the thesis the examiners may:

A decide that the thesis reaches a satisfactory standard; or

B recommend that the candidate be required to re-submit his thesis in revised form after a further period of study and/or research; or

C recommend without further test that the candidate be not awarded the degree of Doctor of Philosophy.

**20.** If the thesis reaches the required standard, the examiners shall arrange for the candidate to be examined orally, and, at their discretion, by written papers and/or practical examinations on the subject of the thesis and/or subjects relevant thereto, save that on the recommendation of the examiners the Faculty or Board of Sudies may dispense with the oral examination.

**21.** If the thesis is of satisfactory standard but the candidate fails to satisfy the examiners at the oral or other examinations, the examiners may recommend the University to permit the candidate to represent the same thesis and submit to a further oral, practical or written examination within a period specified by them but not exceeding eighteen months.

22. At the conclusion of the examination, the examiners will submit to the Faculty or Board of Studies a concise report on the merits of the thesis and on the examination results, and the Faculty or Board of Studies shall recommend whether or not the candidate may be admitted to the degree.

**23.** A candidate shall be required to pay such fees as may be determined from time to time by the Council.

†See later.
1. The degree of Master of Health Personnel Education (MHPEd) may be awarded by the Council on the recommendation of the Professorial Board to a candidate who has satisfactorily completed a program of advanced study comprising formal course work and the preparation of a project report to the satisfaction of the Professorial Board Committee on Health Personnel Education (hereinafter referred to as the Committee)\*.

2. An applicant for registration for the degree shall:

A normally have graduated from an appropriate four-year full-time undergraduate course in the University of New South Wales or other approved university or tertiary institution at a level of performance acceptable to the Committee; and

B have had approved teaching experience at tertiary level of not less than two full-time years or its equivalent.

3. In special cases, a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and teaching experience as may be approved by the Committee.

Registration 4. A An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least six (6) weeks before the commencement of the session in which the candidate desires to commence registration.

B A candidate for the degree shall be required to undertake such course of formal study and pass such examinations as prescribed by the Committee and to submit a satisfactory report on an approved project.

C Except with the approval of the Committee, no candidate shall be considered for the award of the degree until the lapse of three sessions in the case of a full-time candidate or five sessions in the case of a part-time candidate from the date from which registration becomes effective. The Committee may, in exceptional circumstances, approve remission of up to one session in the case of a full-time candidate and up to two sessions in the case of a part-time candidate.

D The progress of a candidate shall be reviewed annually by the Committee and as a result of such review the Committee may terminate the candidature.

Project 5. A A project report shall normally be submitted within one year of the completion of the formal section of the course. In special circumstances extensions of time may be granted by the Committee.

B The work involved in the project may, with the approval of the Committee, be carried out externally to the University.

C 1. The report shall be examined by two examiners appointed by the Professorial Board on the recommendation of the Committee.

2. A candidate may be required to undertake an oral or written examination as arranged by the Committee.

6. Consequent upon consideration of the examiners' reports and the candidate's other Recommendation for results in the prescribed course of study, the Committee shall recommend to the Profes-Admission to Degree sorial Board whether the candidate may be admitted to the degree.

7. An approved candidate shall pay such fees as may be determined from time to time Fees by the Council.

Maetor of Health Personnel Education (MHPEd)

Qualifications

Preparation and Submission of Project Reports and Theses for Higher Degrees

**1.** A A candidate for the degree of Master who is required to submit a report on a project shall provide two copies, or three copies if a copy is to be lodged in the University Library, of the report to:

1. his supervisor (degrees of MA, MEd, MPsychol, MBA, MChem, MOptom, MPhysics, MSc(Biotech), MStats) or

2. the Registrar (all other degrees).

Candidates for the degree of Master of Education, Engineering Science (18 and 36 credit point projects), Surveying Science (18 and 36 credit point projects), Health Administration, Librarianship, Psychology, Science (Acoustics), and Science (Building) shall submit a Library copy of the project report presented and bound in the prescribed manner.

All copies shall contain a short summary of the report of approximately 200 words.

B Every candidate for the degree of Master in which a *thesis* is required except Master of Surgery shall submit to the Registrar three copies of the thesis and supporting work, together with a certificate from the supervisor to the effect that the thesis is in a form suitable for submission to the examiner. All copies of the thesis shall include a summary of approximately 200 words and a certificate signed by the candidate to the effect that the work has not been submitted for a higher degree to any other university or institution.

C Every candidate for the degree of Master of Surgery shall submit to the Registrar four copies of the *thesis* and supporting work, together with a certificate from the supervisor to the effect that the thesis is in a form suitable for submission to the examiner. All copies of the thesis shall include a summary of approximately 200 words and a certificate signed by the candidate to the effect that the work has not been submitted for a higher degree to any other university or institution.

D Every candidate for the degree of Doctor of Philosophy shall submit to the Registrar four copies of the *thesis* and supporting work, together with a certificate from the supervisor to the effect that the thesis is in a form suitable for submission to the examiner. All copies of the thesis shall contain a short abstract of the thesis comprising not more than 600 words. The abstract shall indicate:

- 1. the problem investigated;
- 2. the procedures followed;
- 3. the general results obtained;
- 4. the major conclusions reached;

but shall not contain any illustrative matter, such as tables, graphs or charts.

E Every candidate for the degree of Doctor of Medicine shall submit to the Registrar four copies of the thesis and supporting work, together with a certificate from the supervisor to the effect that the thesis is in a form suitable for submission to the examiner.

All copies of the thesis shall contain a short abstract of the thesis comprising not more than 600 words which *inter alia* shall indicate wherein the thesis has made an original contribution and its significance to Medicine.

The abstract shall indicate:

- 1. the problem investigated;
- 2. the procedures followed;

3. the general results obtained;

4. the major conclusions reached;

but shall not contain any illustrative matter, such as tables, graphs or charts.

2. The specifications currently approved for higher degree project reports and theses are as follows and any variation must be approved by the supervisor in consultation with the Registrar and the University Librarian:

A All copies shall be in double-spaced typescript on one side of the paper only. The paper used shall be of good quality and sufficiently opaque for normal reading.

B The size of the paper shall approximate International Standards Organization paper size A4 (297 mm x 210 mm) or the size commonly called quarto except for illustrative material such as drawings, maps and printouts, on which no restriction is placed.

C The margins on each sheet shall be not less than 40 mm on the left-hand side, 20 mm on the right-hand side, 30 mm at the top and 20 mm at the bottom.

D There shall be a title sheet showing the title, author's name, degree and year of submission.

E Pages or leaves shall be numbered consecutively.

F Diagrams, charts, etc. must not be submitted on the back of typed sheets. Unless otherwise specifically permitted by the supervisor, diagrams, charts, etc. shall be included, where possible with the text, facing the page on which reference to them is made: otherwise they must be clearly referred to in the text, numbered and folded for insertion in a pocket on the back cover of the thesis binding. All loose material shall be marked with the author's name, initials, and degree for which the work is submitted in such a way that it can readily be linked with the project or thesis. Folded diagrams or charts included in the text shall be arranged so as to open out to the top and left. Photographic prints shall be securely fixed. They shall either be printed on single weight printing paper, preferably not glazed, or mounted on cartridge paper for binding.

**3.** One copy of every thesis and of certain project reports is for deposit in the University Library.

The Library deposit copy shall be presented in a permanent and legible form in original typescript, stencil copy or printed copy. A copy produced by dye line, thermofax or xerographic processes is not acceptable. It shall be bound in boards, covered with buckram. The bound volume shall be lettered on the spine as follows:

A At the bottom and across — UNSW, or if the volume is too thin for this — U NSW

B 70 mm from the bottom and across, with the degree and year of submission of the thesis, for example --- MSc 1970

C Evenly spaced between the statement of the degree and year and the top of the spine the name of the author, initials first and then the surname, reading upwards in one line.

No further lettering or any decoration is required on the spine or anywhere on the binding. In the binding of theses or project reports which include mounted photographs, folded graphs and so on, leaves at the spine shall be packed to ensure even thickness of the volume. The Library copy shall be bound by one of a panel of approved bookbinders, each of whom is aware of the University's requirements. Names of approved bookbinders may be secured from the Admissions and Higher Degrees Section.

A completed and signed Declaration Relating to Disposition of Thesis form shall be pasted to the inside of the front cover of the Library-deposit copy. The form may be obtained from the Admissions and Higher Degrees Section.

The other copies of the project report or thesis shall be bound in such a manner as allows their transmission to the examiners without possibility of their disarrangement.

4. A project report or thesis and other relevant work may be submitted to the Registrar at any time during the year provided the candidate has completed the minimum period of registration. In order that a successful candidate may have a reasonable chance of having the degree conferred at one of the formal degree-conferring ceremonies, the candidate should arrange for the work to be in the hands of the Registrar at least eighteen weeks prior to the date of such ceremony.

Note: All copies of the project report or thesis, to be submitted by the candidate to the Registrar are to be lodged at the enquiry counter of the Admissions and Higher Degrees Section, which is located on the ground floor of the Chancellery

## Policy with respect to the Use of Higher Degree Theses

The University holds that no thesis submitted for a higher degree should be retained in the Library for record purposes only, but within copyright privileges of the author, should be public property and accessible for consultation at the discretion of the Librarian.

Declarations Controlling Use of Theses In order to ascertain the wishes of a candidate for a higher degree regarding the use to which his thesis may be put, he is required to complete a declaration (obtainable from the Registrar) which would **1.** grant the University Librarian permission to publish or to authorize the publication of the thesis (Form 1); **2.** withhold the right of the University Librarian to publish the thesis (Form 2); or **3.** allow the University Librarian to publish the thesis under certain conditions.

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