



Academic Board

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MEMORANDUM TO: Members of the Academic Board

A meeting of the Academic Board will be held at **2 pm on Wednesday, 15 October 1997** in the Professorial Board Room.

The agenda for the meeting is set out below, and the Chair's recommendation for the action to be taken by the Board in respect of each agenda item is set out below each item, preceded by the symbol #. The Chair has also starred those items which she believes need discussion. Members will be invited at the beginning of the meeting to star any other items that they wish to have discussed.

Erica Ring

for

Dr W Adams

Acting Registrar and Deputy Principal (Administrative Support Services)

8 October 1997

The items on this agenda are as follows:

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A G E N D A

P A1. Starring

Members of the Board are invited to star any unstarred item which they wish to have discussed.

that the Board resolve as recommended with respect to all unstarred items.

A2. Minutes

1. Minutes of the meeting held on 10 September 1997

The minutes of the meeting of the Academic Board held on Wednesday, 10 September 1997 are enclosed.

Any proposed amendments to the minutes should be submitted in writing to the Registrar (Attention: Miss E R Ring) before the meeting and preferably by Tuesday, 14 October so that they can be included in the supplementary agenda for the meeting.

that the Board confirm the minutes of the meeting held on 10 September 1997 as a correct record.

2. Business arising out of the minutes

A4. Report of the Chair

Part I

1. Report on Senate Matters

To be tabled at the meeting.

that the Board note the report.

2. Semester and vacation dates for the year 2000

The Board, at its meeting in September 1994, prescribed semester and vacation dates for the year 2000 as set out below.

The year 2000 dates differ from those prescribed for other years in that:

- the mid-year break is only for one week (rather than three);
- second semester lectures begin two weeks earlier than in other years;
- the mid-semester break in second semester is for three weeks (rather than one); and
- there is an extra week between the end of the examination period in second semester and the end of second semester.

These variations to the normal schedule of dates were adopted in order to accommodate the Olympic Games and to provide an extra "wash-up" week at the end of the year.

Following consultation with the Deans and Pro-Vice-Chancellors (College), it has become apparent that:

- a longer mid-year break would be desirable in order to accommodate the examining process at the end of first semester given the introduction of fully semesterised units of study; and
- there is no need for the extra week at the end of the year.

It is therefore **recommended** that the Board amend the semester and vacation dates for the year 2000:

- by scheduling lectures to begin a week later in second semester (on 17 rather than 10 July); and
- by scheduling second semester to end at the conclusion of the examination period (on Saturday 2 December, rather than on Saturday 9 December) .

These amendments will provide a two-week mid-year break (rather than one week) and will result in 13 teaching weeks (rather than 14) in second semester.

First Semester	Dates prescribed for the year 2000¹	Amended dates proposed for the year 2000
Lectures Begin	Monday 28 February	Monday 28 February
AVCC Common Week/ non-teaching period	Friday 21 April to Friday 28 April incl	Friday 21 April to Friday 28 April incl
Study Vacation	Monday 12 June to Friday 16 June incl	Monday 12 June to Friday 16 June incl
Examination Period (2 weeks)	Monday 19 June Saturday 1 July	Monday 19 June Saturday 1 July
Semester Ends	Saturday 1 July	Saturday 1 July
AVCC Common Week	Monday 3 July to Friday 7 July incl	Monday 3 July to Friday 7 July incl
Second Semester		
Lectures Begin	Monday 10 July	Monday 17 July
AVCC Common Week/ non-teaching period	Monday 11 September to Friday 29 September incl	Monday 11 September to Friday 29 September incl
Study Vacation	Monday 6 November to Friday 10 November incl	Monday 6 November to Friday 10 November incl
Examination Period (3 weeks)	Monday 13 November to Saturday 2 December incl	Monday 13 November to Saturday 2 December incl
Semester Ends	Saturday 9 December	Saturday 2 December

that the Board amend the semester and vacation dates for the year 2000 as recommended.

3. National Teaching Development Grants

On behalf of the Board, I congratulate Professor Ann Sefton (Medicine), Ms Judy Kay (Computer Science), Dr Simon Carlile (Physiology) and Associate Professor Tony Koppi (Centre for New Technologies in Teaching and Learning) on the award of a 1997 National Teaching Development Grant for their project, Enhancing Students' Problem-directed Learning Using Intranets.

that the Board congratulate the recipients of the Grant.

4. Academic Board agenda papers on the Web

Academic Board agenda papers are now being published on the Intranet in a new file format, called Portable Document Format (PDF). In order to view the agenda papers, you will need the Adobe Reader software which is freely available for Macintosh, Windows and Unix, and can be downloaded from within the Academic Board Homepage.

The software is very easy to use, and provides a number of major benefits which were not available in the previous publishing method. Some of the benefits include:

- the Adobe Reader software is free;
- the ability to browse agenda papers online with most computers;
- the ability to download a complete agenda for later viewing;

¹

1. In accordance with the recommendations of the AV-CC, Semester 1 has been calculated to commence on the Monday nearest to 1 March each year.
2. The schedule has been prepared on the assumption that the Semester 1 Examination period is 2 weeks and the Semester 2 Examination period is 3 weeks.
3. The Academic Board resolved in August 1993 that both semesters contain 14 weeks and that all classes commence in the first week of the semester. The use made of the fourteenth week of the semester will be a matter for faculties to determine. The fourteenth week in each case will be followed by a clear Study vacation week.

The Olympic Games will be held from Friday 15 September to Sunday 1 October inclusive in the Year 2000.

The AV-CC has recommended that the universities observe a common break from 11 September to 6 October to accommodate the Olympic Games and that they consider abandoning the Common Week commencing on 3 July.

- the original agenda format is preserved providing you with an identical copy to the version circulated to committee members. This includes fonts, page numbering and breaks, headers and footers;
- the ability to print a complete agenda or single pages;
- efficient searching facilities to find exactly what you are looking for within the document;
- the fastest way to publish agenda papers online with no translations necessary.

The Academic Board homepage can be found at <http://www.usyd.edu.au/su/ab/>

that the Board note the report.

5. **Draft Student Appeals Document**

It is anticipated that a draft Student Appeals Document will be presented to the November meeting of the Academic Board.

that the Board note the report.

6. **NSW Government's White Paper on HSC Reform**

A paper prepared by Dr John Mack on the White Paper was included in the agenda papers for the September meeting of the Board when I also asked for submissions from faculties. A number have been received, all of which stress the importance of retaining 3 unit courses. I have appointed a working party to draw up a submission for the Board, a submission which will emphasise the necessity of retaining 3 unit courses and address the problems arising from the White Paper's recommendations that candidates present 10 units for the HSC and the need for 3 unit subjects, and for the need for both breadth and depth in the background of students seeking a place at this University.

Apart from Mathematics and English, the area of most concern is that of foreign languages where we need to await the recommendations of the NSW Government's Review of Languages. In view of the importance of knowledge and competency in other languages and the parlous state of languages in the NSW school system, it may well be the time for the University to consider offering a bonus in its admission policies to applicants who include a foreign language in the HSC as is the practice of some tertiary institutions in Victoria.

As well as the number of units and their content, the University will also need to address the issues arising from the recommendations for standards referencing.

The following members of staff have agreed to serve on the working party:

Associate Professor John Clifton-Everest (Germanic Studies)
 Associate Professor Lloyd Dawe (Teaching and Curriculum Studies)
 Associate Professor Terry Gagen (Mathematics and Statistics)
 Professor Margaret Harris (English)
 Dr John Mack
 Professor Ross McPhedran (Physics)

that the Board note the report.

7. **Review of policy on personal chairs, promotion for research-only academic staff and the award of titles**

The Academic Staffing Committee of the Academic Board is at present reviewing policies, processes and procedures in these areas. Members of the Board wishing to make submissions should send them to Jason Upcroft, Personnel Policy Unit, by the end of October. (Margaret Telfer Building, K07; fax: 9351 4893; e-mail: J.Upcroft@perspolicy.usyd.edu.au)

that the Board note the report.

8. **Implications for research of section 316(1) of the Crimes Act**

A question was asked at the June meeting of the Board on the implications of section 316(1) of the Crimes Act for University research in the area of domestic violence. I am at present seeking legal opinion and a reply will be given at the November meeting of the Board.

that the Board note the report.

9. Intellectual Property Draft Document

It is expected that a revised document will be presented at the November meeting of the Board.

that the Board note the report.

10. Action under delegated authority and reports from the Academic Groups

Under delegated authority, I have considered the recommendations of the Academic Groups in respect of academic appointments and the appointment of Faculty Promotions Assessment Committees and selection committees that have been processed under the "old" appointments procedures and have approved/noted them as appropriate. A report on the appointment of Visiting Professors and FPACs that I have approved is attached.

(Pages 22-23)

that the Board note the report.

11. Questions on notice

No questions have been received this month.

that the Board note that no questions were received this month.

P Part II

To be presented at the meeting.

A5. Statement by the Vice-Chancellor and Principal**Part I****1. Report on Senate Matters**

To be tabled at the meeting.

that the Board note the report.

P Part II

To be presented at the meeting.

A8. Report by the Vice-Chancellor and Principal on proctorial matters

The Vice-Chancellor and Principal will table a report at the meeting.

that the Board note that a report was tabled.

B2. Report of the Faculty of Architecture**Semesters 1998**

On behalf of the Faculty, the Dean Designate seeks the Board's approval to have mid-semester breaks of two weeks each by adding a week to the existing mid-semester breaks. The total number of teaching weeks would be thirteen. The proposed dates are set out below.

This is consistent with the Faculty's practice in recent years and improves the balance in the number of teaching weeks each side of the mid-semester break. This suits the Faculty's teaching, much of which is project based.

The Faculty's students are in agreement with this proposal. Only a small number of students from other faculties undertake courses in the Faculty and a similarly small number of the Faculty's students enrol in courses outside the Faculty. Special care will be taken to advise these students of the appropriate dates.

	<i>Semester 1</i>	number of weeks	<i>Semester 2</i>	number of weeks
lectures begin	Monday 2 March	6	Monday 27 July	8
mid-semester break	Friday 10 April to Friday 24 April inclusive	2	Monday 21 September to Monday 5 October inclusive	2
lectures end	Friday 12 June	7	Friday 6 November	
total number of teaching weeks		13		13

that the Board approve the semester dates for the Faculty of Architecture for 1998, as requested.

B13. Report of the Faculty of Nursing

Semester and Vacation dates 1998

The Faculty **recommends** that the attached Semester and Vacation dates for 1998 be approved.

(Page 24)

The Faculty has consulted with students regarding the establishment of the 1998 Calendar. Consultation has taken place with students at a meeting of the Faculty's Clinical Coordinators Committee. The draft Calendar was distributed with the agenda for the Faculty Meeting held on 28 August, 1997. Student representatives received the agenda, attended the meeting and did not raise any objection to the proposed calendar.

Bachelor of Nursing students at the Mallett Street Campus in Years two and three are required to attend clinical placements in health care institutions in July and December. Similarly, Bachelor of Nursing students at the Cumberland Campus are required to attend clinical placements in the third year of their studies during July and December. Clinical placements are an essential part of the requirements for the course and to obtain registration students must complete eighteen weeks' clinical experience during the three years of their candidature. Because of the number of students involved and the limitation on placements, not all students are required to participate in clinical placements during the July and December periods.

that the Board approve the semester dates for the Faculty of Nursing for 1998, as requested.

C1. Report of the Undergraduate Studies Committee

The Committee met on 17 September 1997. There were present: Professor Jocalyn Lawler (Chair), Associate Professor Geoff Barton, Associate Professor Lloyd Dawe, Associate Professor Christopher Gillies, Associate Professor Jill Gordon, Professor Richard Johnstone, Dr Jim Kitay, Associate Professor Ewan Mylecharane and Mr Ross Wilson. Associate Professor Ros Atherton was present by invitation. Ms Lis Bergmann and Ms Joanne Tysoe were in attendance.

1. Amendment of the Resolutions of the Senate

(1) Faculty of Engineering

The Committee **recommends**

- (i) that the Academic Board approve the proposal to introduce
 - (a) two new award programs - the Bachelor of Engineering/Bachelor of Science and the Bachelor of Engineering/Bachelor of Arts;
 - (b) two new specialisations in the Bachelor of Engineering - Computer Engineering and Telecommunications Engineering; and
 - (c) major changes to the award program, the Bachelor of Engineering;

and

- (ii) that the Resolutions of the Senate be amended, with effect from 1 January 1998.

The initial proposal was approved in principle by the Academic Board on 12 February 1997, and the new academic programs were approved in principle by Senate on 3 March 1997.

Bachelor of Engineering/Bachelor of Science

The purpose of the proposal to introduce a Bachelor of Engineering/Bachelor of Science program to commencing students within all BE programs is to allow students the option of studying a much broader range of science courses than is currently available under the existing BSc, BE program (the latter will remain in place).

Bachelor of Engineering/Bachelor of Arts

The proposal to introduce a Bachelor of Engineering/Bachelor of Arts program to commencing students within all BE programs is inspired by the Faculty's conviction that the profession of engineering will be enriched by a greater number of Engineering graduates having a broader education than at present.

Two new specialisations in the Bachelor of Engineering: Computer Engineering and Telecommunications Engineering

The purpose of the proposal to introduce two new specialisations in the degree of Bachelor of Engineering is the identified industrial need and the success of the more specialised program offerings at this and other universities.

Bachelor of Engineering

The purpose of the revised structure of the four year course is to allow students greater access to a broad range of units outside the Faculty of Engineering.

Draft amendments to the Resolutions of the Senate are attached. (Pages 25-29)

Note:

It should be noted that the proposal to introduce major changes in 1998 to the award program of Bachelor of Engineering/Bachelor of Commerce was not approved by the Committee as it has a pattern of more than 48 credit points per year which is not consistent with Academic Board policy. A revised proposal will need to be considered by the Committee.

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that the Board, acting on behalf of Senate:

- (a) **amend the Resolutions of the Senate to effect the introduction of the new award programs, the Bachelor of Engineering/Bachelor of Science and the Bachelor of Engineering/Bachelor of Arts;**
- (b) **amend the Resolutions of the Senate to effect the introduction of the new specialisations, Computer Engineering and Telecommunications Engineering, in the Bachelor of Engineering program; and**
- (c) **approve major changes to the Bachelor of Engineering program and amend the Resolutions of the Senate to effect them.**

(2)

Faculty of Law

Bachelor of Laws

The Committee **recommends** that the Academic Board approve the proposal for the introduction of major changes to the existing award, the Bachelor of Laws, and that the Resolutions of the Senate be amended, with effect from 1 January 1998.

The Faculty has attempted to address several issues that have been discussed and debated for some time: to address problems identified with the current core curriculum, address student concerns regarding the heavy workload of the degree, create a relevant and stimulating first year course which would lend itself to being semesterised, create degree and course unit values which are common across the University and comply more fully with professional accreditation and admission requirements.

Draft amendments to the Resolutions of the Senate are attached. (Pages 30-33)

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that the Board, acting on behalf of Senate, approve major changes to the Bachelor of Laws program and amend the Resolutions of the Senate to effect them.

(3) Faculty of Science**Bachelor of Science (Advanced Mathematics)**

The Committee recommends that the Academic Board approve the proposal to introduce the new designated program of study - the Bachelor of Science (Advanced Mathematics) - within the BSc/BSc (Advanced) degree, and that the Resolutions of the Senate be amended, with effect from 1 January 1998 rather than 1 January 1999, at the request of the Faculty.

Senate at its meeting on 1 September 1997 approved in principle the proposal to introduce in 1999 the new designated program of study - the Bachelor of Science (Advanced Mathematics).

The purpose of the proposal is to produce quality graduates who are exceptionally well grounded in advanced mathematics and who will have integrated their mathematical studies with studies in cognate areas, not necessarily from within the Faculty of Science.

Draft amendments to the Resolutions of the Senate are attached. (Page 34)

that the Board, acting on behalf of Senate, amend the Resolutions of the Senate to effect the new designated program of study, the Bachelor of Science (Advanced Mathematics) from 1 January 1998.

(4) Orange Agricultural College**Bachelor of Business (Agricultural Commerce) (Hons)****Bachelor of Management (Hons)**

The Committee recommends that the Academic Board approve the proposal to make a generic honours program available to suitable students enrolled in the College's degree programs, Bachelor of Business (Agricultural Commerce) and Bachelor of Management, and that the Resolutions of the Senate be amended, with effect from 1 January 1998.

The Academic Board approved the proposal in principle on 14 May 1997.

The purpose of the proposal is to enable suitable students from the degree programs to continue on to undertake research training at postgraduate level as well as prepare for a career in research in industry.

Draft Resolutions of the Senate are attached. (Pages 35-40)

that the Board, acting on behalf of Senate, approve the introduction of the Honours program and adopt the new Resolutions of the Senate relating to undergraduate award programs at Orange Agricultural College.

2. English language requirements

On the recommendation of its Working Party on Overseas Qualifications, the Committee **recommends** that where there is insufficient evidence of current English competence relevant to a particular course of study, faculties reserve the right to ask applicants to undergo a further assessment of written and/or spoken English.

that the Board approve the recommendation. Faculties that prescribe further assessment must report the circumstances and the form of the assessment to the Undergraduate Studies Committee.

3. Orange Agricultural College: Extended Semester Option

The Committee **recommends** that the Academic Board endorse the educational management practice at Orange Agricultural College known as the Extended Semester Option, as attached. (Pages 41-42)

that the Board endorse the educational management practice of the Extended Semester Option as recommended.

4. University preparation programs

On the recommendation of its Working Party on Overseas Qualifications, the Committee **recommends** that the Academic Board resolve:

- (1) that the following university preparation programs be accepted in principle for admission by International Students for undergraduate programs:
 - Canberra Institute of Technology Foundations Studies.
 - Deakin Foundation Studies Program;
 - Foundation Studies Program (Advanced Certificate) from Sydney Institute of Business and Technology;
 - Western Australian Universities Foundation Program;
 - Wollongong University Entrance Diploma
- (2) that the current arrangements for international students applying for admission on the basis of the NSW TAFE Tertiary Preparation Course, whereby applicants are considered individually by faculties (on the basis of their TES and individual subject results), continue until university performance data can be obtained;
- (3) that the UAC Schedule S5052 for Advanced Placement Subjects be accepted for entry to the University of applicants with a combination of Advanced Placement Subjects and Scholastic Aptitude Test (SAT) from the United States of America.

The Committee reports that it has determined that the Swinburne University of Technology Foundation Studies program not be accepted due to insufficient information available on the program;

that the Board:

- **endorse the University Preparation Programs for admission by International Students for undergraduate programs as recommended; and**
- **recommend that Senate amend its Resolutions with immediate effect as follows: The Resolutions relating to Admission to Undergraduate degrees (pp 86-88, Calendar 1996, vol I) are amended by adding the following new section 11.:**
 11. **An international student will become eligible for consideration for admission to undergraduate courses upon the successful completion of such University Preparation Programs as may be approved by the Academic Board from time to time.**

5. **Proceedings of the Committee**

- (1) **Draft set of procedures for the consideration of student appeals against academic decisions made in relation to undergraduate or postgraduate course awards**
The Committee noted that Professor Hilary Astor was redrafting the document in the light of comments made by the Committee and a lengthy response submitted by the SRC.
- (2) **Admission and selection into fee-paying undergraduate courses in 1998**
The Committee noted that a letter had been written to Deans/Directors/College Principals, requesting information for consideration by the Committee at its October meeting on (i) how admissions criteria for fee-paying students in 1998 would operate, (ii) how the faculty intended to make judgements about reasonable standards for admission of fee-paying and of HECS-liable students in 1998, and (iii) approaches to admissions in 1999 for all categories of students.
- (3) **Working party: Approval mechanisms for new courses and major changes to existing courses**
The Committee noted that Professor Lawler had prepared a second draft version of the guidelines for consideration by the Working Party.
- (4) **Admissions**
The Committee noted that Ms Natalie Downey had resumed work on the review of the provisions of Chapters 10 and 11 of the By-laws and accompanying Resolutions, and that Associate Professor Mylecharane, Professor Ros Pesman and Professor Lawler had met with Ms Downey to consider the review.
- (5) **Working Party on Uniform Reporting of Honours Grades**
The Committee noted a tabled memorandum from Professor Lawler to Deans and Colleges Pro-Vice-Chancellors seeking comments on the Working Party's discussion paper and its recommendations in relation to the uniform reporting of honours grades, for consideration at the Committee's October meeting.

that the Board note the report.

C2. Report of the Graduate Studies Committee

The Committee met on 29 September 1997 when there were present: the Chair, Professor J R Lawrence, presiding, Mr T Clark, Associate Professor M Gatens, Dr M King, Associate Professor K C Kwok (for Professor Y-W Mai), Dr M J Mahony, Dr R Ross, Associate Professor C D Shorey, Professor D M Walker, Dr S West and Mr C Wood. Ms J Tysoe was present as an observer, and Miss E R Ring was in attendance.

1. Amendment of the Resolutions of the Senate

The Committee **recommends** that the following proposals for new and amended award programs be approved and that the Resolutions of the Senate be amended and new Resolutions be adopted to effect the programs as set out below.

(1) Faculty of Engineering

The Faculty of Engineering proposes the introduction of graduate certificate programs in the Faculty and the introduction, in the first instance, of the Graduate Certificate in Technology Commercialisation.

The Graduate Certificate in Technology Commercialisation has been developed to provide knowledge and skills for researchers and others to deal with technology contract and intellectual property aspects of their research and its commercialisation. The content of the program focuses quite tightly on key aspects and hence forms a manageable qualification for a wide range of potential candidates including researchers, recent graduates, university students, university staff and others within the industry looking for new opportunities through technology and its commercialisation.

Draft amendments to the Resolutions of the Senate and draft new Resolutions to effect the introduction of the new program are attached. (Page 43)

that the Board recommend that Senate:

- **approve the introduction of the Graduate Certificate in Technology Commercialisation; and**
- **amend its Resolutions and adopt new Resolutions to effect the new program.**

(2) Faculty of Health Sciences

The Faculty of Health Sciences proposes the introduction of a new award program, the Graduate Diploma in Clinical Data Management.

The Graduate Diploma is intended to articulate with the existing Graduate Certificate in Clinical Data Management. The data managers working in clinical research are mostly staff who have an allied health background (nurses, HIMs, Science graduates), but have no formal qualification in clinical data management. There have been few educational opportunities for those staff members to prepare them for a career in the area of clinical trials and other clinical research. The School of Health Information Management successfully introduced the Graduate Certificate in Clinical Data Management, currently running for the second year. By the end of 1997 30 students are expected to have graduated. It is expected that in 1998 more than 20 applicants will do the Certificate course. Feedback from former students indicates that most of the students did the Certificate course in order to continue later with the Graduate Diploma (and maybe a Master's), which would enable them to seek promotion within their profession as Clinical Data Managers.

Draft amendments to the Resolutions of the Senate to effect the introduction of the new program are attached. (Page 44)

that the Board recommend that Senate:

- **approve the introduction of the Graduate Certificate in Clinical Data Management; and**
- **amend its Resolutions to effect the new program.**

(3) Faculty of Law

The Faculty of Law proposes:

- the introduction of the following new postgraduate programs
 - Master of International Taxation
 - Graduate Diploma in Taxation
 - Graduate Diploma in Environmental Law
 - Graduate Diploma in Commercial Law
 - Graduate Diploma in Corporate, Securities and Finance Law
- and amendments to the following existing programs
 - Master of Taxation
 - Master of Criminology
 - Graduate Diploma in Criminology

Master of Taxation (MTax) by coursework

The Faculty of Law proposes the restructuring of its postgraduate tax program to allow flexible marketing of the program Australia-wide and overseas. The restructuring arises from changes to the 1996 Master of Taxation course of study, the Faculty's membership of an informal joint marketing activity under the name Consortium of Australian Tax Schools (CATS) and the proposed introduction of a new Master of International Taxation. Generally, the restructuring is designed to cater better to the needs of local and international students. The structure of the Master of Taxation program will remain largely unaltered, but there will be substantial amendments to existing units of study. The program is designed to meet the needs of those in the accounting profession practising in the tax law area who are precluded from graduate studies in the Master of Laws because they do not have an undergraduate law degree, and for law graduates with existing tax law knowledge and/or experience arising from practice, or employment in the public sector, or elsewhere, who wish to build on their experience and attain a high level of specialist expertise.

Master of International Taxation (MIntTax)

This new program is designed to appeal to international students taught both in Australia and overseas, and local students who wish to specialise in international taxation, of which there are an increasing number. Experience has shown that international students have difficulties in studying hardcore Australian tax law. It is hoped that the focus on comparative systems of taxation, in the units of study designed for this program, will have greater relevance for, and be easier to grasp by, the students at whom the course is targeted.

Graduate Diploma in Taxation (GradDipTax)

This program is intended for both law and non-law graduates with existing tax law knowledge and/or experience arising from practice, or employment in the public sector, or elsewhere, who wish to build on their experience and attain a high level of expertise. However, as the requirements of the Diploma are less extensive than the Master of Taxation (four units of study to be completed instead of eight), the program will appeal to the category of anticipated students who are unable or do not wish to commit to undertaking a Master's course of study. Such students can upgrade to a Master's course of study, with Faculty consent, if they successfully complete the Diploma, at the requisite high level of performance to qualify for admission, before taking out the Diploma.

Graduate Diploma in Environmental Law (GradDipEnvLaw)

As with the existing Master of Environmental Law, the Graduate Diploma in Environmental Law is aimed at graduates seeking a specialist qualification in Environmental Law and Policy, especially those working professionally in the area of Environmental Law, for example, private practitioners, and in-house counsel in relevant organisations, as well as those working in environmental planning, engineering, architecture and related areas, in both the private and public sectors. The Diploma is open to law and non-law graduates. The intention of the Graduate Diploma is to make it possible for such graduates to undertake postgraduate study in a specialist field without embarking on a Master's course immediately. It will be possible for the Graduate Diploma students to upgrade to the Master of Environmental Law with approval from the Postgraduate Environmental Law Coordinator, provided that students have attained the requisite high level of performance.

Graduate Diploma in Commercial Law (GradDipComLaw)

The Faculty does not currently offer a Master of Commercial Law, although graduates wishing to undertake a Master's program focusing in this area may choose units of study offered for the Master of Laws (by coursework) program. The program is open to law graduates only (which includes students who have obtained the LPAB Diploma). This Graduate Diploma will appeal to law graduates, working professionally in the area of commercial law, such as in private practice, in-house counsel, and the many graduates working in the international sphere. Consideration of the proposed units of study demonstrate the particular areas of the law that will be offered. Again, the Diploma offers an easier and less expensive introduction to specialist postgraduate study.

Graduate Diploma in Corporate, Securities and Finance Law (GradDipCorpLaw)

This program is intended for both law and non-law graduates with knowledge or experience arising from practice, or employment in the public sector, or elsewhere, who wish to build on their experience and attain a high level of expertise in their particular professional field. A Master of Corporate, Securities and Finance Law is under consideration, but presently the Faculty does not offer a Master's program in this area. However, law graduates who have undertaken the Master of Laws program are able to choose units of study in this area, so that most units of study offered for this program are already offered by the Faculty. However, as with all Graduate Diploma programs, students are required to complete only four units of study so the program will appeal to the category of anticipated students who are unable or do not wish to commit to undertaking a Master's course of study. Such students can upgrade to a Master's course of study, with Faculty consent, if they successfully complete the Diploma, subject to meeting existing admission requirements.

Master of Criminology (MCrim) by coursework

The structure of this program will remain largely unaltered, but there will be amendment of existing units of study. The course of study builds on the Faculty's expertise in the teaching of criminology and criminal justice studies, offering comprehensive and critical coverage of these units of study. The course of study offers an interdisciplinary perspective on the extent, type and explanation of crime, together with an analysis of the criminal justice process, including policing, the courts, sentencing, imprisonment, community corrections, the examination of criminal law and procedure, and research and policy perspectives. The program is designed to appeal to those with an interest in criminal justice and related issues, including criminal law practitioners, those in research and policy positions in relevant government and non-government agencies, workers in juvenile justice, community corrections, police and correctional officers, social workers and welfare workers. The Faculty already has a notable demand for this program.

Graduate Diploma in Criminology (GradDipCrim)

This program is aimed at the same market of intended students as the Master's program, except that the Diploma will appeal to such of those students who do not wish to embark immediately upon a Master's program. The general organisation of the Diploma program, including methods of candidature, assessment and teaching methodology, is the same as the Master's program, except:

- students are required to complete four units of study instead of eight;
- two of those units of study, namely *Explaining Crime* and *Crime, Research and Policy I* are compulsory.

Draft amendments to the Resolutions of the Senate to effect the amendment of the existing programs and the introduction of the new programs are attached. (Pages 44-47)

that the Board:

- **recommend that Senate approve the introduction of the following new postgraduate programs and amend its Resolutions and adopt new Resolutions to effect them**
 - **Master of International Taxation**
 - **Graduate Diploma in Taxation**
 - **Graduate Diploma in Environmental Law**

- **Graduate Diploma in Commercial Law**
- **Graduate Diploma in Corporate, Securities and Finance Law**
- **acting on behalf of Senate, approve amendments to the following existing programs and amend the Resolutions of the Senate and adopt new Resolutions to effect the amendments**
 - **Master of Taxation**
 - **Master of Criminology**
 - **Graduate Diploma in Criminology**

(4) Faculty of Medicine

The Faculty of Medicine proposes the introduction of a new award program, the Graduate Diploma in Indigenous Health Promotion.

The purpose of the program is to offer a nationally-recognised qualification in health promotion at the postgraduate level that will increase the size and skills of the Indigenous health promotion workforce in Australia. This is the first postgraduate course in Indigenous health promotion to be offered in Australia. The demand for a program with this focus is indicative of a growing need within the Aboriginal health workforce for extended knowledge and skills in this area, and growing awareness within Indigenous (and non-Indigenous) health organisations (government and community controlled) for specific health promotion expertise.

Draft amendments to the Resolutions of the Senate and draft new Resolutions to effect the introduction of the new program are attached. (Pages 47-48)

that the Board recommend that Senate:

- **approve the introduction of the Graduate Diploma in Indigenous Health Promotion; and**
- **amend its Resolutions and adopt new Resolutions to effect the new program.**

2. Electronic submission of theses

The Board, at its meeting in August 1997, noted an interim report from the Committee on its proposal to make provision for the electronic submission of theses.

The Committee has addressed a number of procedural matters and now **recommends** that the Board approve in principle that the option of receiving theses in an electronic form be made available to examiners where the student has indicated willingness to submit electronically and that an electronic 'Examiner's report' form be sent to all examiners as a matter of course if the examiner has an e-mail address.

The Committee notes that the present print form of submission is likely to remain the most acceptable form of submission for the foreseeable future but that this new method will probably become increasingly popular with the passage of time and improvements in technology; it will also provide a saving in thesis printing and binding costs and examining time. The introduction of the electronic option does not detract from the present system in any way and only increases the degree of choice available to both candidates and examiners.

An extract from the report of the Working Party appointed by the Committee to consider this issue is attached; the extract provides some background information and the results of a survey undertaken of past examiners. (Pages 49-50)

The Committee proposes the adoption of the following principles and procedures:

Procedures for electronic submission of theses

Provision for electronic submission of theses for the purpose of examination may occur where both the candidate wishes to submit in this form and examiners are prepared to examine in this way.

Candidates wishing to submit electronically are required to provide earlier advice of their intent to submit so that arrangements may be made with prospective examiners. A thesis submitted electronically must be in Word or Word Perfect format with the same structure as the ultimate printed version, and each chapter must be in a separate document. A hard copy of the thesis must be submitted for any examiner(s) unwilling or unable to examine the thesis electronically. A corrected hard copy of the thesis, for lodgement in the University

Library, must be submitted at the end of the examination process where the award of the degree has been approved.

The usual examination process will be followed when a thesis is submitted electronically, except as set out below.

- A student who wishes to submit electronically must so advise the Supervisor and the Department at least 9 months prior to submission.
- This advice should be by the completion of a (centrally-designed) form, on which the student must indicate the likely length of the thesis and any special features relating to its format .
- The head of department, in recommending the appointment of examiners, should indicate whether he or she has ascertained their willingness to examine electronically and whether they wish examine in this way.
- Examiners must be selected in the normal way and no regard paid to whether or not they would wish to examine electronically.
- When confirming the appointment of examiners, the Faculty Office should confirm their willingness or otherwise to examine an electronic version of the thesis.
 - Prospective examiners must be advised that the thesis is available in Word, Word Perfect or MS DOS format and they must be asked whether they prefer to accept it in that form (on disk, but possibly as an e-mail attachment) or in the traditional hard copy form.
 - Under certain circumstances particular specialised electronic applications may form part of the thesis. In such circumstances, it should be ascertained that the examiner has the capability to accept this format, and this must be done 9 months prior to submission.
- If an examiner advises that he or she does not wish to examine electronically, then the examiner will be sent a hard copy of the thesis.

If the Board approves the proposal in principle, the Committee will forward its recommendations for the re-drafting of the Resolutions of the Academic Board relating to the examination process for the degree of Doctor of Philosophy.

that the Board approve in principle that provision be made for the electronic submission and examination of higher degree theses, as recommended.

3. Proceedings of the Committee

(1) Membership of the Committee

The Committee welcomed the following new members:

Dr Sandra West, who has replaced Associate Professor R Pratt (Nursing);
Mr Tom Clark, who has replaced Mr Kyle Oliver (President, SUPRA); and
Mr Brad Buckley, who has replaced Ms Christina Davidson (Sydney College of the Arts).

(2) Report of the PhD Award Sub-Committee

On the report of the meeting of the PhD Award Sub-Committee held on 24 September 1997, the Committee noted that:

Doctor of Philosophy

- the award of the degree had been approved, without further qualification, to two candidates;
- the degree had not been awarded to two candidates in the Faculty of Arts and the candidates had been permitted to revise and re-submit;
- the degree had not been awarded to one candidate in the Faculty of Medicine who had revised and re-submitted and the candidate has been permitted to re-revise and resubmit; and
- examiners had been appointed for 27 candidates, a replacement examiner had been appointed for one candidate and a fourth examiner had been appointed for one candidate.

PhD Examiner's report form

The Committee also agreed that a version of the PhD Examiner's report form be made available for the examiners of a thesis which has already been revised and resubmitted that would not have available to examiners the recommendation that the thesis be revised and resubmitted.

(3) Report of the Coursework Sub-Committee

The Committee noted a report from its Coursework Sub-Committee, which is currently considering the following matters, noting that the Sub-Committee expects to forward recommendations on several of these issues to the Committee's October meeting:

- (a) guidelines for the preparation of the academic content of new postgraduate coursework award programs;
- (b) distance, alternative and flexible modes of delivery in postgraduate coursework programs;
- (c) the distinction between undergraduate and postgraduate coursework; and
- (d) guidelines for theses, treatises, dissertations, essays and long essays as units of study within a coursework program.

(4) Higher doctorates*Appointment of examiners*

The Committee noted that the Chair had approved a recommendation from the Faculty of Medicine for the appointment of examiners for a candidate for the degree of Doctor of Medicine and confirmed the Chair's action.

Award of degree

The Committee noted that the Chair had approved a recommendation from the Faculty of Science for the award of the degree to the following candidate and confirmed the Chair's action:

Degree of Doctor of Science

Professor Arthur Stuart Truswell

(5) Deferment of public availability of theses

The Committee noted that the Chair had met with the Director of the Business Liaison Office to discuss the increasing number of requests for deferment of public availability of theses which involved externally-funded contract research projects and patents, and the principles for approving such requests.

The Committee noted that the entry in the *Postgraduate Studies Handbook* would be expanded to make manifest that an application for deferment may be made to allow time for registration or protection of intellectual property such as the filing of a patent application but that where this can be anticipated, it is important that the application be lodged as soon as possible and that adequate explanation to allow the application to be assessed be provided. Sponsoring bodies/agencies should be made aware of the University policy which endorses the principle of early publication.

(6) Electronic publication of theses

The Committee considered a report from Dr King, the Chair of its Working Party on the electronic publication of theses, and agreed to adopt the Working Party's recommendations, *viz*:

- (a) commitment to the notion of electronic publication of theses;
- (b) support for the Research Infrastructure Equipment and Facilities Project (RIEF) and the participating consortium;
- (c) a request that the Graduate Studies Committee be kept informed of project progress;
- (d) the establishment of a database of useful URL addresses (by the University Archivist)
(available at: <http://www.usyd.edu.au/su/archives/theses/>) ;
- (e) the establishment of a web-accessible database of theses titles and abstracts (by the University Librarian); and

- (f) the merging of the Committee's Working Party on Electronic Submission of Theses with that on Electronic Publication of Theses with a watching and reporting brief.

An extract from the Working Party's report is attached.

(Pages 51-52)

(7) Introduction of off-shore delivery of existing programs

Members agreed to draw to the attention of their faculties the Board's endorsement of the Committee's guidelines on the distinction between Major and Minor changes at postgraduate level that provide, *inter alia*, that "repackaged" courses of study and new modes of delivery (including off-shore delivery) are classified as Major changes, and proposals for same must therefore be submitted to this Committee.

Where proposals may also have implications for student record keeping, departments should have consulted the Student Records Office before submitting them to the Committee.

(8) Co-tutelle with the Université de Paris III

The Committee considered a proposal from the Dean of the Faculty of Arts for the establishment of a co-tutelle arrangement with the Université de Paris III whereby students could complete a PhD under the co-supervision of the Université de Paris III and the University of Sydney and be awarded a PhD by both institutions. The Committee established a Working Party to look at the broad academic principles of the proposal and the specific case of a current PhD student who wishes to proceed under the proposed arrangement. The Working Party comprises: Professor J R Lawrence (Chair), Mr T Clark, Mr C S Davidsson, Associate Professor M Gatens and Associate Professor M Sankey.

(9) Re-naming of research Master's degrees as "Master of Philosophy in ..."

The Committee noted that several faculties were in the process of formulating recommendations for the re-naming of their existing research Master 's degrees as "Master of Philosophy in ..." in accordance with the Committee's recommendations.

The Committee agreed to authorise its Chair to approve such amendments on its behalf.

that the Board note the report.

C3. Report of the Teaching and Learning Committee

The Committee met on 4 September 1997 when there were present: Professor Ann Sefton (Chair), Dr Angela Brew, Mr Tom Clark, Associate Professor Lloyd Dawe, Professor Richard Johnstone and Professor Ross McPhedran. Apologies: Professor Jim Lawrence. In attendance: Ms Louise Maral.

Proceedings of the Committee

1. Mid-year provision to 'show cause'

In response to a letter from Dr Peter McCallum, Assistant Principal of the Sydney Conservatorium of Music, the Committee discussed at length the viability of instituting an additional provision to show cause at the end of first semester. The Chair undertook to write to the Acting Registrar seeking his views on the administrative implications of such a move.

2. Membership changes

The Committee welcomed Dr Angela Brew, Acting Director of the Centre for Teaching and Learning and Mr Tom Clark, newly elected President of SUPRA.

3. Future directions for the Centre for Teaching and Learning

The Acting Director reported that the Centre had been working more closely with departments and was moving towards offering courses in a flexible mode, would continue to work closely with NeTTL and was planning a VC's forum on flexible learning for November. The Centre would hold a VC's forum on key issues arising from the West report following

release of the report. Greater emphasis would be placed on scholarship and professionalism in teaching and the Centre would liaise more closely with the Teaching and Learning Committee.

Professor Johnstone added support to the view that, in this period where teaching had a high profile, it was important to look at different emphases and directions. He saw the CTL's main areas of emphasis as: (1) developing a more integrated approach to the teaching and technology area; and (2) the question of evaluation and assessment within the University. He would like to see the CTL providing advice on a consultancy basis. Further, the position of director would be advertised by the end of the year with the aim of having the position filled by the end of March.

A close relationship between the Teaching and Learning Committee and the CTL will be maintained and the Director of the CTL will report on activities at every second meeting.

4. Teaching statements in staffing policies

The statements prepared by the Committee had been incorporated by the Academic Staffing Committee for discussion at the next Academic Board meeting.

5. Certification of university teachers

The Committee noted and discussed the Dearing report's proposal to require that new academics be certified to teach in a university context. It was reported that there had been discussions nationally concerning the issue of accreditation for university teachers. A graduate certificate in higher education was being offered by the CTL in collaboration with the Faculty of Education. Further, introductory modules could be offered to staff in their first year of teaching which would afford recognition and could count towards a later tertiary qualification. Such modules could also support postgraduate students asked to teach. These developments would have resource implications for the CTL.

It was seen that different needs should be identified. The existing CTL emphasis was practical with projects related to participants' departments. It was thought important to have flexibility in methods of earning a certificate, such as via a portfolio.

The Committee resolved to revisit the issue at its November meeting when more information was to hand. Meantime Mr Clark would look into the relevance for postgraduates.

6. Work in progress

The committee is currently working on: (1) writing assessment policy statements; (2) reviewing the membership structure of the Committee; and (3) reviewing the role of the Language Reference Group which reports through the Teaching and Learning Committee.

that the Board note the report.

C4. Report of the Research Committee

There is no report this month.

C5. Report of the Library and Information Technology Committee

The Committee met on Monday 15 September. There were present: Professor R McPhedran (presiding), Professor R Johnstone, Associate Professor E Cornell, Associate Professor N Newbigin, Professor M Harris, Dr M Peat, Ms L Frohlich and Mr J Shipp. Dr D Levy and Mr T Robinson were in attendance.

1. Report of the Library Reference Group

Professor Harris reported on the meeting of the Reference Group held on 8 September at which the new University Librarian, Mr J Shipp, provided the Group with some of his initial thoughts on the University Library, and its future

that the Board note the report.

2. Report of the IT Reference Group

In the absence of Dr Carlile, Dr Levy reported on the meeting of the Reference Group. The major business item was the 1998 budget for the IT Reference Group.

that the Board note the report.

3. Membership of Library and IT Reference Groups

The forthcoming absence of Associate Professor Newbiggin from mid-November to mid-July 1998 was noted. A temporary replacement for her on the Library Reference Group is required.

The departure of Professor Rosenberg to Monash University left a vacancy on the Committee and IT Reference Group.

Professor McPhedran, with the agreement of the Committee, **recommends** that the Academic Board appoint Associate Professor R Kummerfield (*vice* Professor Rosenberg) to membership of the Library and Information Technology Committee.

that the Board appoint Associate Professor Kummerfield to membership of the Library and Information Technology Committee.

4. Information Technology Committee Budget 1998

Professor Johnstone reported on the development of the draft 1998 ITC budget, based on the submissions received from its subcommittees. In subsequent discussion the subject of charging for Internet access by departments was canvassed. Professor McPhedran emphasised that it is vital that Information Technology Services provide Heads of Departments with the likely costs for use of the Internet, based on current figures, as soon as possible. It is therefore **recommended** that the Director of Information Technology Services establish procedures to provide Heads of Departments with the likely costs of Internet use as a matter of urgency.

that the Board note the report and refer it to the Information Technology Committee.

5. Student Access Centres

Dr Levy and Dr Peat spoke to a discussion paper on the provision of student access to SydNet prepared by Dr Carlile.

(http://www.physiol.su.oz.au/simonc/litc/access_disc_v2.htm)

The Committee recognised the paramount importance of widening student access to the network. It was stated that five sites had been identified for Student Access Centres, that \$700,000 was held to finance the work and that a Project Manager is to be appointed to oversee the work. The following statements were **recommended** for endorsement by the Academic Board:

(1) That whenever substantial refurbishment or construction of University buildings is planned, provision must be made for adequate study areas including network access points for students with their own computers. It is also important that the University Librarian be consulted early in the planning process of building refurbishment.

(2) That the construction of the Student Access Centres be commenced as a matter of priority given the importance the University places on achieving generic IT skills for its graduates.

that the Board endorse the report and refer it to the Information Technology Committee.

C6. Report of the Academic Staffing Committee

A. First Report

The Committee met on 17 September 1997. There were present: Professor R Pesman (Chair), Professor D Anderson, Professor S Armitage, Associate Professor R Arnold, Professor L Burgess,

Associate Professor D Davey, Professor L Field, and Dr P Whiting; Ms C Clarke, Ms J Deitch and Mr J Upcroft were in attendance. Apologies: Ms S Jamieson.

1. Report of the Chair

The Chair reported that the Policy Document - Promotion of Academic Staff to Levels B, C and D and the Policy Document - Criteria for Progression for Academic Levels A, B, C and D were both adopted by the Board with some proposed changes. The Chair thanked the Committee for their work on these documents.

2. Promotion of Academic Research-Only Staff to Levels B, C and D

The Committee discussed the Report of the Working Party to examine the employment of Research-Only Staff at the University of Sydney, which was presented by Professor L Field. A subcommittee was appointed to prepare a draft document on promotion for research only staff.

3. Personal Chairs

A subcommittee was appointed to prepare a draft document on personal chairs and promotion to Level E.

that the Board note the report.

B. Second Report

Title of Emeritus Professor

The Academic Staffing Committee wishes to recommend the following amendment to the procedures relating to the award of the title of Emeritus Professor that was endorsed by the Board at its meeting on 16 April 1997:

Title of Emeritus Professor

The title of Emeritus Professor may be conferred by ~~Senate~~ the Senate Chair Appointments Committee on a retiring Professor of the University in recognition of outstanding and sustained service to the University.

The recommendation is made by the Pro-Vice-Chancellor (College) on the advice of the Head of Department and Dean.

The recommendation of the Pro-Vice-Chancellor to ~~Senate~~ the Senate Chair Appointments Committee should consider and advise upon:

- (1) The Professor's distinction of service to the University by reference to intellectual and scholarly contribution and to other services, and
- (2) the length of such service, in all ranks, to the University.

that the Board recommend that Senate approve the amendment of the procedures relating to the award of the title of Emeritus Professor, as recommended.

C7. Membership of Central Promotions Committees (1997)

The Chair of the Academic Board recommends that the following amendments be made to the membership of the Central Promotions Committees for Personal Chair and Lecturer:

1. Personal Chair

Professor James Lawrence to replace Professor Tania Sorrell.

The full committee for Personal Chair is as follows:

Professor Gavin Brown (Vice-Chancellor and Chair) (ex officio)

Professor Ros Pesman (Chair, Academic Board) (ex officio)

Professor Derek Anderson (Deputy Vice-Chancellor) (ex officio)

Professor Graeme Gill (Pro-Vice-Chancellor (Research))

Professor Robert King (UNSW) (external member)

Professor David Hill (Electrical Engineering)

Professor Jocalyn Lawler (Clinical Nursing)

Professor Kevin Lee (Archaeology, Classics and Ancient History)

Professor James Lawrence (Medicine)

2. Lecturer

Professor David Cockayne to replace Professor Ros Pesman.

The full committee for Lecturer is as follows:

Professor Richard Johnstone (Pro-Vice-Chancellor and Chair) (ex officio)
 Professor David Cockayne (nominee of Chair, Academic Board) (ex officio)
 Professor Ross McPhedran (Deputy Chair, Academic Board) (ex officio)
 Associate Professor Tony Baker (UTS) (external)
 Professor Brian Haynes (Chemical Engineering)
 Associate Professor Nerida Newbigin (Italian)
 Associate Professor Flora Gill (Economics)
 Dr Jennifer Lingard (Biomedical Sciences)
 Dr Ove Hoegh-Guldberg (Biological Sciences)
 Dr Kenneth Macnab (History)
 Dr Anne Green (Physics)

that the Board amend the Committee memberships as recommended.

D1. Report of the Committee appointed to consider applications for promotion from Senior Lecturer to Associate Professor or Reader

The Chair, acting on behalf of the Academic Board under delegated authority, considered the following report of the committee appointed to consider applications for promotion from Senior Lecturer to Associate Professor/Reader and commended the committee's recommendations to the Vice-Chancellor for his approval. The Vice-Chancellor approved the recommendations, and all applicants have now been notified.

Fifty two (52) applications were received from Senior Lecturers seeking promotion to Associate Professor (47) or Reader (3) or Principal Research Fellow (2).

The committee to consider the applications met on Thursday 14 August 1997, and comprised Professor Derek Anderson (Chair), Professor Ros Pesman (Chair, Academic Board), Professor James Lawrence (Deputy Chair, Academic Board), Professor Robert King (University of New South Wales), Professor David Hill, Professor Kevin Lee, Professor Tania Sorrell, Associate Professor Martin Painter, Associate Professor Edward Fackerell, Associate Professor Moira Gatens and Associate Professor Ros Arnold.

Each applicant who so wished was interviewed by the Faculty Promotion Assessment Committee (FPAC) appointed by the Academic Board. The FPAC considered the application and the reports of Head of Department and the referees, and forwarded its recommendations in ranked order to the Central Promotions Committee (CPC). Following consideration of each application and of the recommendations of the relevant FPAC the CPC met with the relevant Dean who was asked to provide additional information regarding the applicants in cases where the preliminary decisions of the CPC were not entirely in accord with the FPAC recommendations. Members of the CPC then voted for or against promotion of the candidates. At least eight members of the committee (two-thirds) voted in favour of each candidate recommended for promotion below and each successful candidate was awarded an average score of at least 85%.

At the conclusion of the meeting, the members of the CPC reviewed the decisions taken to decide if any case should be reconsidered. In cases where the ranking given by the FPAC was varied (such that a lower ranked applicant was recommended and higher ranked one was not), the CPC met with the core members of the relevant FPAC for further discussion before reaching a final decision.

It is recommended that the following (20) promotions to the grade of Associate Professor and (2) promotions to the grade of Reader be effective from 1 January 1998. All successful applicants were strongly supported by their referees.

To Associate Professor

Dr Fredoun Ahmadi-Esfahani	Department of Agricultural Economics
Dr Janet George	Department of Social Work, Social Policy and Sociology
Ms Judith Irwin	Department of Social Work, Social Policy and Sociology
Dr Paul Redding	School of General Philosophy

Dr Anne Reynolds	Department of Italian
Dr Anthony Aspromorgous	Department of Economics
Dr Gregory Patmore	Department of Industrial Relations
Dr Russell Ross	Department of Economics
Dr Christine Inglis	School of Social and Policy Studies in Education
Dr Robert Cumming	Department of Public Health and Community Medicine
Dr David Gottlieb	Department of Medicine
Dr Gary Halliday	Department of Medicine
Dr Anthony Keech	NHMRC Clinical Trials Centre
Dr Nicholas King	Department of Pathology
Dr Trevor Hambley	School of Chemistry
Dr John Keene	Department of Geology and Geophysics
Dr Glenn King	Department of Biochemistry
Dr Robyn Overall	School of Biological Sciences
Dr Emma Whitelaw	Department of Biochemistry
Dr William Maxwell	Department of Animal Science

To Reader

Dr Christopher Dickman	School of Biological Sciences
Dr Margaret Brimble	School of Chemistry

The following statistical details on Faculty distribution are provided for the information of the Board.

	Applications Received			Promotions Recommended		
	<i>Male</i>	<i>Female</i>	<i>Total</i>	<i>Male</i>	<i>Female</i>	<i>Total</i>
Agriculture	2	-	2	1	-	1
Arts	4	3	7	1	3	4
Economics	3	1	4	3	-	3
Education	1	2	3	-	1	1
Health Sciences	2	1	3	-	-	-
Law	2	-	2	-	-	-
Medicine	13	1	14	5	-	5
Science	12	3	15	4	3	7
Veterinary Science	2	-	2	1	-	1
Totals	<u>41</u>	<u>11</u>	<u>52</u>	<u>15</u>	<u>7</u>	<u>22</u>

The CPC is concerned to maintain the confidentiality of the results until after the applicants have been notified. Once endorsed by the Chair of the Academic Board, acting under delegated authority from the Board, this report will be forwarded immediately to the Vice-Chancellor for his approval, a delegation already approved by Senate. The CPC requests that the referral of this report for noting by the full Academic Board be delayed until the following month, so that all applicants receive official advice of the outcome prior to its publication in the Academic Board papers.

that the Board note the report.

Action by the Chair under delegated authority

College of Humanities and Social Sciences

1. Appointment of Visiting Professors

The Academic Board is asked to note that the Chair, acting on behalf of the Board, has approved the following appointments which have been recommended by the Pro-Vice-Chancellor on the advice of the relevant Heads of Departments:

Professor Ray Rees	Law	September 1997 to November 1997
Professor Richard Carson	Faculty of Economics	1 October 1997 to 31 October 1997
Professor Hiroshi Matsuo	Jurisprudence	July to September

2. Appointment of 1997 Faculty Promotion Assessment Committees

- (1) The Academic Board is asked to note that the Chair, acting on behalf of the Board, has approved the following committees.

Lecturer

Sydney Conservatorium of Music

Core

Professor Sharman Pretty	Principal (Chair)
Mr Richard Toop	(Conservatorium of Music)
Dr Peter Dunbar-Hall	(Conservatorium of Music)
Dr Kathleen Nelson	(Conservatorium of Music)
Dr Graham Hardie	(Music)
Ms Linda Barwick	(Music)
Dr Michael Halliwell	(Conservatorium of Music) (Reserve)

Additional Members

Applicant 1:	Dr Peter McCallum (Assistant Principal)
	Dr Christine Logan (School of Music and Music Education UNSW)

- (2) The Academic Board is asked to note that the Chair, acting on behalf of the Board, has approved the following changes to committees.

Personal Chair

Education

Core

Associate Professor Roslyn Arnold to replace Associate Professor Ken Sinclair who is unable to act.

Associate Professor/Reader

Education

Additional

Applicant 1:	Professor Geoffrey Sherington to replace Professor Jim Lawrence who is unable to act.
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Senior Lecturer

Economics

Core

Dr Anne Reynolds (Italian) to replace Professor Sharman Pretty (Conservatorium of Music) who is unable to act.

Education

Additional

Applicant 2:	Dr Richard Walker (Educational Psychology, Measurement and Technology) as further member of the committee
Applicant 4:	Dr Richard Walker (Educational Psychology, Measurement and Technology) as further member of the committee
	Dr Rhonda Craven (Educational Psychology, Measurement and Technology) as further member of the committee

Lecturer

Arts

Additional

Applicant 1: Associate Professor Phillip Jones (Head) as further member of the committee

Mr Ralph Sadler (Social and Policy Studies in Education) as further member of the committee

Applicant 10:

Dr Elizabeth Rechniewski (Acting Head)

Dr Jim Kitay (Industrial Relations)

Dr Toni Schofield (Social Work and Social Policy) (Reserve)
to replace the following who are unable to act:

Professor Angus Martin (Head)

Dr Francois Grauby (French Studies)

Dr Robert White (French Studies)

College of Sciences and Technology

Appointment of Visiting Professor

The Academic Board **is asked to note** the following appointment which has been approved by the Chair on behalf of the Academic Board, on the recommendation of the Pro-Vice-Chancellor, on the advice of the relevant Dean and Head of Department:

Name	Department/School	Period
Professor Jeong Kim	Chemistry	8 January 1998 to 7 January 1999

The University of Sydney																																								
Faculty of Nursing, Mallett Street																																								
1998 Semester & Vacation dates																																								
	Mar					Apr					May					Jun					Jul					August					Sep									
	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14											
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7		
PG						Easter									STUD																									
RN/BN						Easter									STUD																									
BN YEAR 1						Easter				CLIN	CLIN	CLIN			STUD																									CLIN
BN YEAR 2						Easter						CLIN	CLIN	CLIN	STUD																									
BN YEAR 3						Easter						CLIN	CLIN	CLIN	STUD																									
Cumberland Campus 1998 Semester and Vacation dates																																								
	Mar					Apr					May					June					July					Aug														
	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	31	7	14											
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7		
BN Year 1						Easter						Clinical	Clinical	Clinical	Stuvac	Stuvac	Exams	Exams																						
BN Year 2						Easter						Clinical	Clinical	Clinical	Stuvac	Stuvac	Exams	Exams																						
BN Year 3						Easter						Clinical	Clinical	Clinical	Stuvac	Stuvac	Exams	Exams	Clinical	Clinical	Clinical	Clinical																		
Postgrad															Stuvac	Exams	Exams																							
																	PUBLIC HOLIDAYS 1998 Good Friday 10 April Anzac Day - Saturday 25 April Queen's B'day - Monday 8 June Labour Day - Monday 5 October																							

Committee for Undergraduate Studies

Amendment of the Resolutions of the Senate

Faculty of Engineering

Bachelor of Engineering

The existing Resolutions of the Senate relating to the degree of Bachelor of Engineering (p. 327-331, 1996 Calendar, Vol. D) are replaced by the following new Resolutions, with effect from 1 January 1998:

Bachelor of Engineering

1. Specialisations

- (1) The degree of Bachelor of Engineering shall be awarded in the following specialisations:
 - (i) Aeronautical Engineering
 - (ii) Chemical Engineering
 - (iii) Civil Engineering
 - (iv) Computer Engineering
 - (v) Electrical Engineering
 - (vi) Mechanical Engineering
 - (vii) Mechanical Engineering (Mechatronics)
 - (viii) Project Engineering and Management (Civil)
 - (ix) Telecommunications Engineering
- (2)
 - (i) Each specialisation may, with the approval of the Faculty, be undertaken as part of a combined degree program with the Bachelor of Commerce (BCom), Bachelor of Arts (BA) or Bachelor of Science (BSc).
 - (ii) Resolutions governing the combined degree programs are set out in the Joint Resolutions of the Faculty of Engineering and the Faculties of Science, Economics and Arts.
- (3) The testamur for the degree of Bachelor of Engineering shall specify the specialisation for which it is awarded.
- (4)
 - (i) Graduates in Engineering in any specialisation may be admitted to the program for another specialisation on conditions to be prescribed by the Faculty.
 - (ii) Upon satisfactory completion of the program, the candidate shall receive a certificate relating to the additional specialisation.
- (5) A candidate for the BE degree in any specialisation may apply to the Faculty for permission to transfer candidature to any other specialisation.

2. Definitions

For the purposes of these resolutions:

- (1) A “unit of study” shall comprise such lectures, tutorial instruction, essays, exercises and practical work as the Faculty may prescribe.
- (2) To complete a unit of study means:
 - (i) to attend the lectures and any tutorials, and
 - (ii) to complete satisfactorily any essays, exercises and practical work and to pass any final examination, prescribed for that unit of study.
- (3) “Core” unit of study means a unit of study which must be completed in order to qualify for the award of the degree, unless exemption is granted by the Faculty.
- (4) “Elective” unit of study means a unit of study other than a core unit of study.
- (5) “Prerequisite” means a unit of study which must be completed before enrolment in any unit of study for which that unit of study has been prescribed as a prerequisite.
- (6) “Corequisite” means a unit of study in which, unless previously completed, a candidate must enrol concurrently with any unit of study for which that unit of study has been prescribed as a corequisite.

3. Units of Study

- (1) The units of study for the degree shall each have a credit point value.
- (2) The units of study which may be taken for the degree are:
 - (i) the units of study set out in the tables appended to these resolutions; and

- (ii) such other units of study as are approved by the Faculty.
- (3) The Faculty may prescribe units of study as acceptable alternatives to one or more of the units of study set out in the tables appended to these resolutions.
- (4) The Head of the Department concerned may accept other work completed by a candidate as the equivalent of a corequisite or prerequisite for any unit of study provided by that Department.
- (5) A candidate may only enrol in units of study in accordance with these resolutions and subject to the constraints of the timetable, unless approval is given by the Head of Department.

4. Credit

A candidate who has completed a unit of study shall be credited with the credit point value of that unit of study except that:

- (a) a candidate may not receive credit for more than one of such units of study as the Faculty may deem to be mutually exclusive; and
- (b) a candidate may not receive credit for units of study which are deemed to be mutually exclusive with units of study credited toward the Bachelor of Science degree when enrolled in the Faculty of Science under Section 14 of the Resolutions of the Senate relating to the degree of Bachelor of Science.

5. Final Examination

- (1) A final examination shall be prescribed for each unit of study.
- (2) The final examination may consist of such written and/or oral examination(s), exercises, essays or practical work or any combination of these as the Faculty may determine.
- (3) A candidate who has been prevented by duly certified illness or misadventure from sitting for the whole or part of the final examination may be tested at such times and in such a way as the Faculty shall determine. This shall not be regarded as a re-examination.

6. Conditions of Enrolment

- (1) Except with the permission of the Faculty, a candidate in the first year of attendance shall enrol in Junior units of study with a total of not less than 48 credit points and not more than 54 credit points.
- (2) In each subsequent year of attendance after the first, a candidate may enrol in any of the units of study for which there is no prerequisite or for which the candidate has completed the prerequisites provided that:
 - (i) in the second year of attendance the candidate may enrol in Junior and/or Intermediate units of study only;
 - (ii) the candidate shall enrol in any core units of study for which he/she was qualified to enrol in the previous year of attendance and for which credit has not yet been gained, and for which the candidate has not been granted exemption under subsection 7(2);
 - (iii) except with Faculty approval, the candidate shall not enrol for units of study totalling more than 60 credit points, nor enrol for units of study totalling less than 36 credit points, unless the candidate already has credit for 156 or more credit points.
- (3) The Faculty may in special circumstances grant dispensation from the requirements of subsections (1) and (2).
- (4) A candidate enrolled in a unit of study provided outside the Faculty of Engineering shall, in respect of that unit of study, be governed by the requirements of the Department providing the unit of study.
- (5) A candidate who has been enrolled for the degree of Bachelor of Engineering but who has not re-enrolled for a period of one year or more shall complete the requirements for the degree under such conditions as the Faculty may determine.
- (6) A candidate who re-enrols in a unit of study which the candidate has previously failed to complete shall, unless exempted by the Head of Department concerned, attend all lectures and other classes and complete all written and other prescribed work.

7. Conditions for Advanced Standing and Credit

- (1) Graduates of other Faculties of the University of Sydney, or graduates of other universities, who desire to proceed to the degree of Bachelor of Engineering may be

admitted to candidature with credit for such of the units of study set out in the appended tables as the Faculty may determine, up to a maximum of 96 credit points, provided they have completed as part of their previous degree units of study considered by the Faculty to be equivalent.

- (2) Students who have completed units of study in other Faculties of the University of Sydney may apply for permission to enrol as candidates for the degree of Bachelor of Engineering. If granted such permission, they may be given credit for any of the units of study set out in the appended tables which have been completed in the other Faculties, or for any units of study considered by the Faculty to be equivalent, provided they have abandoned credit for such units of study in the other Faculties.
- (3) Students who have completed units of study in another university or institution may apply for permission to enrol as candidates for the degree of Bachelor of Engineering. If granted such permission, they may be given credit for, or exempted from, such of the units of study set out in the appended tables as the Faculty may determine.
- (4) With regard to each of the previous subsections, where an applicant for candidature has completed units of study which are not comparable with any of the units of study set out in the tables appended to these resolutions, the Faculty may grant non-specific credit points. Such credit points will be designated by the Faculty as Junior, Intermediate, Senior or Senior Advanced.

8. Levels of Award

- (1) The degree of Bachelor of Engineering shall be awarded in two grades, namely, the Pass degree and the Honours degree.
- (2)
 - (i) There shall be three classes of Honours, namely, Class I, Class II and Class III.
 - (ii) Second Class Honours may be awarded in two divisions, namely Division 1 and Division 2.
- (3) If a candidate qualifies for the award of the degree with First Class Honours and the Faculty is of the opinion that the candidate's work is of outstanding merit, that candidate shall receive a University Medal

9. Requirements for the Pass Degree

- (1) To qualify for the award of a Pass degree a candidate shall, unless granted exemption by the Faculty under subsection (b) of this resolution:
 - (i) satisfy the requirements prescribed in those tables appended to these resolutions pertaining to the specialization which the candidate is pursuing, and
 - (ii) complete additional elective units of study as may be necessary to gain credit for a total of not less than 192 credit points.
- (2) In special circumstances, the Faculty may exempt a candidate from completion of any core unit of study. No credit shall be granted for any such exempted unit of study.
- (3) A candidate who, with the prior permission of the Faculty, completes units of study at another university or appropriate institution may be given credit for such of the units of study set out in the tables attached to these resolutions as the Faculty may determine.

10. Honours and Prizes

- (1) To qualify for the award of an Honours BE degree a candidate shall:
 - (i) complete the Pass degree requirements;
 - (ii) complete such Honours units of study as may be determined by the Head of the Department in which the candidate is pursuing the degree; and
 - (iii) attain a level of performance acceptable to the Head of Department.
- (2) The Faculty may prescribe any Senior or Senior Advanced unit of study as being an Honours unit of study.
- (3) Where an Honours unit of study and a core unit of study are deemed by the Faculty to be mutually exclusive, completion of the Honours unit of study will be taken as satisfying the core unit of study.
- (4) Except with the permission of the Faculty, a candidate shall not be eligible for the award of an Honours degree unless the candidate has completed all the requirements in minimum time, namely, four years for the BE degree and five years for the combined BE/BSc, BE/BCom or BE/BA degrees.

- (5) A candidate for an Honours degree who has failed to be placed in any Honours classification may be awarded a Pass degree.
- (6) A candidate who has previously failed any unit of study shall not be eligible for any prize or scholarship awarded in connection with that unit of study.

11. Transitional Arrangements

The provisions of these resolutions came into force on 1 January 1998. All candidates who commenced candidature prior to this date shall complete the degree requirements under such conditions as the Faculty may determine.

For the information of the Board:

Joint Resolutions of the Faculty of Engineering and the Faculties of Arts and Science

The following Joint Resolutions of the Faculty of Engineering and the Faculties of Arts and Science are to be inserted after the Joint Resolutions of the Faculty of Engineering and the Faculty of Economics relating to the Bachelor of Engineering/Bachelor of Commerce:

JOINT RESOLUTIONS OF THE FACULTIES OF ENGINEERING AND ARTS (BE/BA)

Candidature for this combined degree program is a minimum of 5 years of full-time study.

Candidates qualify for the award of the two degrees of the combined program (a separate testamur being awarded for both the BE and the BA) by completing the following:

The units of study prescribed for the BE specialization undertaken (totalling 160-162 credit points, depending on the specialization). These units of study are set out in the tables appended to the Senate Resolutions relating to the BE degree.

BA units of study totalling at least 80 credit points, of which at least 56 must be Senior credit points from Part A of the Table of Units of Study for the BA degree, including a major as defined in the resolutions relating to the BA degree.

Candidates may not enrol in any unit of study which is substantially the same as one they have already passed (or in which they are currently enrolled).

Candidates will be under the general supervision of the Faculty of Engineering. General supervision covers all areas of policy and procedures affecting candidates, such as combined degree program rules and enrolment procedures. Candidates will be under the supervision of the Faculty of Arts regarding enrolment and progression within the BA component of the combined degree program, as defined in subsection 2(b).

Candidates may qualify for the award of the BE degree with Honours.

Candidates who complete the combined degree program may qualify for admission to an honours year in the Faculty of Arts.

Candidates who abandon the combined degree program may elect to complete the BE degree or BA degree in accordance with the appropriate Senate Resolutions.

The Deans of the Faculties of Engineering and Arts shall jointly exercise authority in any matter concerning this combined degree program not otherwise dealt with in the Senate Resolutions or these joint resolutions.

JOINT RESOLUTIONS OF THE FACULTIES OF ENGINEERING AND SCIENCE (BE/BSc)

Candidature for this combined degree program is a minimum of 5 years of full-time study.

Candidates qualify for the two degrees of the combined program (a separate testamur being awarded for both the BE and the BSc) by completing the following:

The units of study prescribed for the BE specialization undertaken (totalling 160-162 credit points, depending on the specialization). These units of study are set out in the tables appended to the Senate Resolutions relating to the BE degree.

At least 80 credit points from units of study listed in Table 1 for the BSc degree, 32 of which must be from Intermediate units of study and 24 of which must be from Senior units of study in one Science discipline area. Science units of study taken as part of the required units of study for a BE degree cannot be included in these 80 credit points.

Candidates may not enrol in any unit of study which is substantially the same as one they have already passed (or in which they are currently enrolled).

Candidates will be under the general supervision of the Faculty of Engineering. General supervision covers all areas of policy and procedures affecting candidates, such as combined degree program rules and enrolment procedures. Candidates will be under the supervision of the Faculty of Science regarding enrolment and progression within the BSc component of the combined degree program, as defined in subsection 2(b).

Candidates may qualify for the award of BE degree with Honours.

Candidates who complete the combined degree program may qualify for admission to an honours year in the Faculty of Science.

Candidates who abandon the combined degree program may elect to complete the BE degree in accordance with the appropriate Senate Resolutions.

Candidates in the combined degree program may qualify for admission to the Faculty of Science to enrol in such courses as are required to complete the requirements for the BSc degree. Such candidates shall be deemed to have abandoned the BE/BSc combined degree program

The Deans of the Faculties of Engineering and Science shall jointly exercise authority in any matter concerning this combined degree program not otherwise dealt with in the Senate Resolutions or these joint resolutions.

Faculty of Law

Bachelor of Laws

The existing Resolutions of the Senate relating to the degree of Bachelor of Laws (pp. 372-374, 1996 Calendar, Vol. I) are replaced by the following new Resolutions, with effect from 1 January 1998:

Bachelor of Laws

Units of study

1. A unit of study consists of such lectures, seminars, tutorials, written assignments, moots, experiential learning, and any other method of instruction or assessment as may be prescribed by the Faculty.
2. A pre-requisite unit of study means a unit of study which must have been completed with a result of Pass or better prior to a candidate enrolling in another unit of study for which it is a pre-requisite.
3. A corequisite unit of study means a unit of study which must be completed with a result of Pass or better, or be taken concurrently with the unit of study for which it is a corequisite.
4. The Head of Department or Dean may vary the entry requirements for units of study for particular candidates in special circumstances.
5. All units of study for the degree will be of semester length.

Grades of Award

6. The degree is awarded in two grades: pass and honours.
7. In the honours grade there are two classes: first class honours and second class honours.
8. A candidate who qualifies for the award of first class honours, and whose work is of outstanding merit in the opinion of the Faculty, may be considered for the award of a University medal.

Requirements for the degree

9. To qualify for the degree, candidates must complete units of study to the value of 144 credit points, made up of the following:
 - (i) 96 credit points of the following compulsory units of study:
 - Legal Institutions
 - Law, Lawyers and Justice in Australian Society
 - Federal Constitutional Law
 - Torts
 - Criminal Law
 - Contracts
 - Administrative Law
 - Litigation
 - Real Property
 - Equity
 - Corporate Law
 - International Law; and
 - (ii) 48 credit points of the following optional units of study:
 - (a) a maximum of 40 credit points from the units of study listed in Table 1, and
 - (b) a minimum of 8 credit points from the units of study listed in Table 2.
10. No unit of study may be credited more than once for the degree.
11. Except with the express permission of the Faculty, candidates may not take more than 24 credit points in any one semester.

Sequence of units of study

12. Except with the express permission of the Faculty, candidates who are combining their study with the Bachelor of Arts, Bachelor of Economics, Bachelor of Economics (Social Sciences), Bachelor of Commerce or Bachelor of Science must successfully complete Legal Institutions and Law, Lawyers and Justice in Australian Society before enrolling in any other Bachelor of Laws units of study.
13. Candidates for the Bachelor of Laws who are combining their study with the Bachelor of Arts, Bachelor of Economics, Bachelor of Economics (Social Sciences), Bachelor of Commerce or Bachelor of Science must complete the Law units of study in the following annual sequence:
 - Combined Law 1: Legal Institutions; Law, Lawyers and Justice in Australian Society
 - Combined Law 2: Contracts; Criminal Law
 - Combined Law 3: Federal Constitutional Law; Torts

On completion of the requirements for the degree of Bachelor of Arts, or Economics, or Economics (Social Sciences), or Commerce, or Science, then (except as provided in Resolution 15):

Combined Law 4: Administrative Law; Corporate Law; Equity; International Law; Litigation; Real Property

Combined Law 5: optional units of study selected from Table 1 and Table 2 as required in Resolution 9(ii).

14. Candidates for the Bachelor of Laws who have been admitted on the basis of having completed the requirements for a degree at the University of Sydney, or other such institutions as approved by the Faculty, must complete their Law degree in the following sequence:

Law 1: Legal Institutions; Law, Lawyers and Justice in Australian Society; Contracts; Criminal Law; Federal Constitutional Law; Torts.

Law 2: Administrative Law; Corporate Law; Equity; International Law; Litigation; Real Property

Law 3: optional units of study selected from Table 1 and Table 2 as required in Resolution 9(ii).

15. Candidates may be permitted to enrol in a maximum of two optional units of study selected from Table 1 and Table 2 in Year 4 for Combined Law and Year 2 for Graduate Law instead of Corporate Law and/or International Law. In such cases, candidates must enrol in Corporate Law and/or International Law in the final year of their candidature.

Satisfactory Progress

16. The Faculty will require candidates to show good cause why they should be allowed to re-enrol in the Faculty of Law if, in the opinion of the Faculty, they have not made satisfactory progress towards fulfilling the requirements of the degree.

17. Satisfactory progress cannot be defined in all cases in advance, but a candidate who:

- (i) does not pass at least 24 credit points in any year of enrolment, or
- (ii) has failed a compulsory unit of study more than once,

shall normally be presumed not to have made satisfactory progress. Therefore a candidate must normally remain enrolled in at least 24 credit points each year, except when they need fewer than 24 credit points to complete the requirements for the degree.

18. Where the Faculty permits the re-enrolment of a candidate whose progress has been presumed to be unsatisfactory, it may require the completion of specified units of study or a specified number of credit points in a specified time. If the candidate fails to comply with these conditions, he or she may again be presumed not to have made satisfactory progress.

19. Except with the express permission of the Faculty, a candidate must complete the requirements for the award of the degree within ten calendar years of admission to candidature.

Suspension of study

20. A candidate must re-enrol each calendar year unless Faculty has approved suspension of candidature. Candidature lapses if a candidate has not obtained approval for suspension and does not re-enrol. Candidates whose candidature has lapsed must be selected for admission again before they can re-enrol.

21. Suspensions will not be approved for more than two years, unless the Dean is satisfied that there are exceptional circumstances.

Credit for previous units of study

22. A candidate may be granted credit for up to 64 credit points for units of study completed during a previous candidature in a course of study of the University of Sydney or at an equivalent institution recognised by the Faculty.

23. Non-specific credit may be granted for up to 24 of these 64 credit points for units of study not sufficiently related to units of study in Table 1 or Table 2.

24. A candidate will not be granted credit toward the degree for any units of study:

- (i) for which the result is a Terminating Pass, Conceded Pass or the equivalent;
- (ii) which were completed more than nine years before admission to candidature for the degree; or
- (iii) upon which the candidate has relied to qualify for another degree or academic qualification.

Variation of requirements for the degree

25. The Dean may vary these resolutions for a particular candidate in exceptional circumstances.

Transitional provisions

26. All candidates who first enrolled prior to 1 January 1998

- (i) will be required to complete the unit of study Personal Property unless they complete both revised units of study in Torts and Real Property after 1 January 1998;

(ii) will be eligible for the award of the degree on successful completion of 38 credit points; and

(iii) must comply with all other 1988 resolutions for the Bachelor of Laws degree.

27. From 1 January 1998, all candidates who have completed Legal Institutions or Legal Institutions I and Legal Institutions II, and who have not completed any other Bachelor of Laws units of study, will be transferred to the new degree resolutions.

Unit of study Code	Unit of study Name	Credit points	Pre-Req / Co-Req	Previous Name
38556	Aboriginal Peoples & the Australian Legal System	8		
38608	Advanced Constitutional Law	8	P: International Law	Federal Judicial System
38630	Advanced Contracts	8	P: Contracts	
00109	Advanced Corporate Law	8	P: Corporate Law	
38607	Advanced Public International Law	8	P: International Law	
38642	Advanced Real Property	8	P: Real Property	
38180	Anti-Discrimination Law	8		
38208	Business Taxation	8	C: Personal Taxation	
11797	Chinese Laws and Chinese Legal Systems	8		Seminar (Shanghai School)
38181	Comparative Law	8		
35701	Competition Law	8		
38184	Conveyancing	8	P: Real Property	
38185	Criminology	8		
38186	Dispute Resolution	8		
38187	Employment & Industrial Law	8	P: Constitutional Law P: Contracts	
38194	Family Law	8		
38694	Independent Research Project	8		
00111	Indonesian Law	8		
35681	Intellectual Property	8		
38702	International Human Rights Law	8	P: International Law	
38662	Jessup International Law Moot	8	P: International Law	
38200	Law & Social Justice	8		
37476	Medical Law	8		
37475	Migration Law	8	P: Administrative Law	

38202	Personal Taxation	8		
38679	Private International Law	8		Conflict of Laws
00112	Remedies	8	P: Contracts, Torts, Equity	Commercial Equity
tba	Remedies for Defamation and Personal Injury	8		Advanced Torts
38204	Roman Law	8		
00107	Sale of Goods & Consumer Protection	8	P: Contracts	Sale of Goods
38687	Social Security Law	8		
35305	Succession	8		
38692	Sydney Law Review	8		
99999	Seminar2	8		

For the 1988 Resolutions, please refer to pp. 372-374, Volume I of the 1996 Calendar.

² Seminar Units of study may be offered, with the approval of the Head of Department, to bring together research interests of staff and students or to permit a visiting staff member to teach in their area of expertise. They are 'one-off' units of study and are of equal value of optional credit points.

Faculty of Science

Bachelor of Science

The Resolutions of the Senate relating to the degree of Bachelor of Science (pp 404-410, 1996 Calendar, Vol I), as amended, are further amended to the following effect from 1 January 1998:

- by deleting revised Resolution 11 and inserting instead the following:

BSc Advanced Program or the Advanced Mathematics Program

11. (1) Notwithstanding sections 4, 5 and 8 of these Resolutions, a candidate may be accepted into the Advanced Degree Program or the Advanced Mathematics Degree Program.
- (2) To qualify for the award of the BSc degree in the Advanced Degree Program or the Advanced Mathematics Degree Program, candidates shall pass all units of study at the first attempt and, except with the permission of the Faculty, shall:
- (i) complete units of study to a value of at least 48 credit points in each year of enrolment;
 - (ii) complete at least 96 units from Intermediate and Senior Courses;
 - (iii) qualify for admission to an Honours unit of study under section 16.
- (3) Candidates wishing to graduate in the BSc (Advanced) degree program shall:
- (i) include, in the Junior units of study taken, at least 24 credit points from units of study designated as Advanced and/or from studies at Junior level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2);
 - (ii) include, in the Intermediate units of study taken, at least 16 credit points from units of study designated as Advanced and/or from studies at Intermediate level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2);
 - (iii) complete at least 48 credit points from Senior units of study, including at least 24 credit points from units of study designated as Advanced and/or from studies at Senior level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2).
- (4) Candidates wishing to graduate in the BSc (Advanced Mathematics) degree program shall:
- (i) include, in the Junior units of study taken, at least 24 credit points from units of study designated as Advanced and/or from studies at Junior level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2), including at least 12 credit points from Junior units of study in the Science Discipline Areas of Mathematics and Statistics;
 - (ii) include, in the Intermediate units of study taken, at least 24 credit points in the Science Discipline Areas of Mathematics and Statistics, including at least 12 credit points from units of study designated as Advanced and/or from studies at Intermediate level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2);
 - (iii) complete at least 48 credit points from Senior units of study, including at least 24 credit points in the Science Discipline Areas of Mathematics and Statistics including at least 12 credit points from units of study designated as Advanced and/or from studies at Senior level taken under the Faculty's Talented Student Program, as approved from time to time by the Dean under Resolution 6(2).
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Orange Agricultural College

Bachelor of Business (Agricultural Commerce)

Bachelor of Management

The following new Resolutions of the Senate relating to the Bachelor of Business (Agricultural Commerce) and the Bachelor of Management are adopted from 1 January 1998:

Bachelor of Business (Agricultural Commerce)

Bachelor of Management

Introduction

1. (a) The degree of Bachelor of Management shall be awarded in:
 - (i) Farm Business
 - (ii) Horticulture
 - (iii) Equine Business
 - (iv) Rural Business Administration
 - (v) Land Resources
- (b) The certificates for the degree shall specify the area in which the degree is awarded.

Definitions

2. For the purpose of these resolutions:
 - (i) A 'unit' shall consist of lectures, tutorials, seminars, practicals, field excursions, required reading and assessment and other tasks as may be prescribed by Orange Agricultural College;
 - (ii) each unit shall be designated as a 'year 1' unit, a 'year 2' unit, a 'year 3' unit, an 'Honours' unit, or a 'postgraduate' unit, and as either a 'core' unit or an 'option' unit;
 - (iii) each 'unit' shall have a standard weighting of 6 credit points;
 - (iv) a 'core unit' means a unit which must be completed by a candidate in order to qualify for the award of a degree, unless the candidate is granted exemption by Orange Agricultural College;
 - (v) an 'option unit' means a unit other than a core unit;
 - (vi) a 'prerequisite unit' is a unit which a candidate must have completed with a grade of pass or above before enrolling in another specified unit provided that, if, on the recommendation of the appropriate Course Co-ordinator, the appropriate Academic Head is convinced the prerequisite requirement has been met by alternative means or an equivalent unit, he or she may waive the specified prerequisite unit;
 - (vii) a 'corequisite unit' is a unit which requires simultaneous enrolment in another unit. Candidates who have successfully completed or have been granted credit for units specified in this requirement shall be deemed to have met the corequisite requirement. A candidate who withdraws, or is withdrawn from a corequisite unit, may proceed with the unit for which it is a corequisite only with the permission of the appropriate Academic Head;
 - (viii) the 'appropriate Academic Head' refers to the Head of Undergraduate Studies and Academic Staff.

Grades of Award

3. (a) The degree shall be offered in two grades, namely the Pass degree and the Honours degree.
- (b) An outstanding Pass degree candidate may be awarded the degree 'with distinction'.

Requirements for the Pass Degree

4. (a) To qualify for the Bachelor of Business (Agricultural Commerce) Pass degree, candidates must satisfactorily complete 24 units (144 credit points):
 - (i) 19 core units (114 credit points), and
 - (ii) 5 option units (30 credit points) as indicated in the table of units appended to these resolutions,
 - (iii) 2 Development Documents, and
 - (iv) a period of industry experience as may be prescribed by Orange Agricultural College from time to time.
- (b) To qualify for the Bachelor of Management Pass degree, candidates must satisfactorily complete 24 units (144 credit points):

- (i) 16 units (96 credit points) from a nominated advanced diploma (or its equivalent) offered by Orange Agricultural College.
- (ii) 8 'year 3' units comprising 5 core units (30 credit points) and 3 option units (18 credit points), as indicated in the table of units appended to these resolutions. All candidates, except those undertaking the land resources strand, must study at least one business management option unit. Land resources candidates must study the following option units:
RMMN 3701 Managing Sustainable Development
RMAS 3701 Geographic Information Systems and
RMAS 3702 Wildlife Management.

Admission to Honours Candidature

5. Applicants for admission to Honours candidature at Orange Agricultural College shall have:

- (i) maintained a distinction or better level in at least 50% of the units taught in years 2 and 3 of their Pass degree program; or
- (ii) maintained a distinction average in the field in which they propose to undertake their research.

Applicants who meet neither of the above must demonstrate to the Head of Undergraduate Studies and Academic Staff that they have the required knowledge and aptitude for the Honours degree.

Requirements for the Honours Degree

6. (a) To qualify for the Honours degree candidates must satisfactorily complete 8 core units (48 credit points) comprising:
RMRS 4001 Research Philosophy and Methods (equivalent to 2 units - 12 credit points)
RMRS 4002 Research Dissertation (equivalent to 6 units - 36 credit points)
- (b) The unit Research Philosophy and Methods will be completed in the first semester of enrolment with the Research Dissertation started during the first semester and completed in the second semester (or part time equivalent).
- (c) Candidates will undertake coursework units as part of their dissertation. The actual dissertation will represent a minimum of 4 units of study (24 credit points) and therefore coursework will represent a maximum of 2 units of study (12 credit points). The coursework will address any deficiencies in the candidates' knowledge or skills required for their research. The coursework must be approved by the Course Co-ordinator and will normally be equivalent to the units available to candidates enrolled in the Orange Agricultural College's postgraduate courses or the third year of the Orange Agricultural College's bachelor programs. The coursework may come from any unit on offer within a University providing the Head of Department offering the unit is prepared to accept the candidates concerned.
- (d) Candidates will be expected to take part in the Research Students' Seminars that are organised within Orange Agricultural College.

Classes of Honours

7. (a) There shall be three classes of Honours, namely Class I, Class II and Class III.
- (b) Second Class Honours may be awarded in two divisions, namely Division 1 and Division 2.
- (c) An outstanding Honours degree candidate may be awarded the degree with a bronze medal.

Modes of Study

8. Candidates for the degree may enrol in units of study by either the internal or the distance education mode depending on the unit's mode of offering as determined by Orange Agricultural College from time to time.

Maximum Semester Enrolment

9. Candidates may not apply for a semester enrolment in more than four units of study, or the equivalent, without the approval of the appropriate Academic Head.

Credit

10. (a) Candidates who have previously completed studies which are considered by Orange Agricultural College to be equivalent to any unit listed in the tables appended to these resolutions may be given credit for that unit provided that the total number of units for which credit is awarded does not exceed more than half the total number of units required for the degree.

- (b) In exceptional circumstances consideration may be given to the provision of up to two additional units of credit for students entering the final year of the Bachelor of Management course.
- (c) Credit will not be granted, except in special circumstances, for any unit or units completed more than nine years prior to admission or re-admission to candidature.

Satisfactory Progress

11. (a) A candidate who fails to demonstrate satisfactory progress shall receive academic counselling from the Course Co-ordinator or nominee, and shall normally be placed on probation by the Board of Examiners in consultation with the relevant Course Co-ordinator or nominee.
- (b) A candidate who fails to satisfy any condition of probation shall be required by the Board of Examiners to show good cause as to why he/she should be allowed to re-enrol in his/her course of study.

Leave of Absence

12. (i) Candidates may be granted a period of approved leave of absence.
- (ii) An application for leave of absence will only be approved for a period of one semester. A candidate may apply at the end of a period of leave of absence for a further period of leave for the next semester. Such leave will normally be restricted to two consecutive semesters.

Period of Candidature

13. The maximum period of candidature, irrespective of the mode of study shall be 10 years. In exceptional circumstances the Orange Agricultural College Board may extend the period of candidature.

Table of Units - Bachelor of Business (Agricultural Commerce)

Unit No.	Unit Name	Core(C) Option (O)	Credit Points	Prerequisite (P) Corequisite (C)
<i>Year 1</i>				
RMBU 1637	Quantitative Methods	C	6	
RMBU 1632	Economics I	C	6	
RMBU 1631	Agribusiness Systems	C	6	
RMBU 1634	Introduction to Law	C	6	
RMBU 1633	Financial Accounting	C	6	
RMAS 1601	Farm Systems	C	6	
RMBU 1635	Managerial Economics	C	6	
RMBU 1636	Principles of Marketing	C	6	
<i>Year 2</i>				
RMMN 2654	Systems Thinking and Practice	C	6	
RMBU 2632	Applied Finance I	C	6	
RMBU 2635	Management Accounting	C	6	RMBU 1633 Financial Accounting (P)
RMMN 1552	Managing Yourself and Others	C	6	
RMMN 2653	Management and Organisations	C	6	
RMBU 2636	Marketing Management	C	6	RMBU 1636 Principles of Marketing (P)
RMBU 2633	Applied Finance II	C	6	
Plus one option from the available Semester 2 option units (see below)				
<i>Year 3</i>				
RMBU 3635	Corporate Policy and Strategic Management	C	6	RMMN 2653 Management and Organisations (P)
RMBU 3640	Taxation Law and Practice	C	6	
RMMN 3651	Human Resource Management	C	6	RMMN 2653 Management and Organisations (P)
RMBU 3631	Business Project	C	6	RMBU 3635 Corporate Policy and Strategic Management (P)

Plus one option unit from the available Semester 1 option units and three option units from the available Semester 2 option units (see below)

Unit No.	Unit Name	Core(C) Option (O)	Credit Point	Prerequisite (P) Corequisite (C)
<i>Semester 1 Option Units *</i>				
RMBU 3634	Corporate Finance	O	6	
RMBU 3637	International Economics	O	6	RMBU 1632 Economics I (P)
RMBU 2132	Whole Farm Analysis and Planning	O	6	
<i>Semester 2 Option Units*</i>				
RMMN 3653	Risk Management	O	6	RMBU 1637 Quantitative Methods (P)
RMBU 2634	Company Accounting	O	6	RMBU 1633 Financial Accounting (P)
RMBU 2631	Agribusiness and the Economy	O	6	RMBU 1632 Economics I (P)
RMBU 3632	Commercial Law	O	6	RMBU 1634 Introduction to Law (P)
RMBU 3633	Contemporary Accounting Issues	O	6	RMBU 1633 Financial Accounting (P)
RMBU 3639	Rural Policy and Political Economy	O	6	RMBU 1632 Economics I (P)
RMBU 3638	International Marketing	O	6	RMBU 2636 Marketing Management (P)
RMMN 3652	Management Studies	O	6	RMMN 2654 Systems Thinking and Practice (P)
RMBU 3636	International Business	O	6	
* Approved units from other courses offered by Orange Agricultural College or from courses offered by other tertiary providers may be elected as options				

Table of Units - Bachelor of Management

Unit No.	Unit Name	Core(C) Option (O)***	Credit Points	Prerequisite (P) Corequisite (C)
<i>Year 1 and 2</i>				
16 units from one of the following:			96	
Advanced Diploma of Farm Management				
Advanced Diploma of Horticulture				
Advanced Diploma of Horse Management				
Advanced Diploma of Land Management				
Advanced Diploma of Rural Business Administration				
<i>Year 3</i>				
RMMN 3756	Technology and Resource Management I	C	6	
RMMN 3752	Management Research and Planning	C	6	
RMMN 3751	Integrative Management Studies	C	6	RMMN 3752 Management Research and Planning (P)
RMMN 3753	Managerial Development I	C	6	
RMMN 3754	Managerial Development II	C	6	
Plus 3 units from the following option units				
RMMN 3757	Technology and Resource Management II	O	6	RMMN 3756 Technology and Resource Management I (P)
RMRS 3781	Technology and Resource Management Research	O	6	RMMN 3756 Technology and Resource Management I (P)
RMBU 2636	Marketing Management *	O	6	RMBU 1636 Principles of Marketing (P)
RMBU 2632	Applied Finance I*	O	6	
RMBU 3638	International Marketing*	O	6	RMBU 2636 Marketing Management (P)
RMMN 3755	Managing Sustainable Development **	O	6	
RMAS 3701	Geographic Information Systems**	O	6	
RMAS 3702	Wildlife Management **	O	6	
* At least one of these units, or another business management unit offered by Orange Agricultural College, must be studied by all candidates except Land Resource candidates.				
** Must be studied by Land Resources candidates				
*** Approved units from other Orange Agricultural College courses, or from courses offered by other tertiary providers, may be elected as options.				

Extended Semester Option

Overview

The College seeks the endorsement of Academic Board of the innovative educational management practice at Orange Agricultural College (OAC) known as the Extended Semester Option.

Introduction

OAC has a major involvement in distance education and has had to develop policies consistent with the special needs associated with this mode of delivery. These special needs include not only acknowledgment of the logistics of a postal-based delivery system but also and more importantly, the needs of mature-age, usually part-time students with a range of employment, family and community responsibilities.

In 1985 the College formalised its commitment to flexibility and responsiveness to student needs within its Course Rules and the current expressions of this commitment is the Extended Semester Option policy. Academic Board's formal endorsement of this policy is now being sought.

The policy

In distance education units, students may elect to switch to an alternative set of assessment submission deadline dates. This second schedule of dates is prescribed by the academic presenter in the Unit Information which is received by all students in the unit. The option is available to all students in the unit and it effectively allows students who make this election to extend their studies so that their final assignment submission deadline falls shortly before the commencement of the next semester.

Certain conditions apply, e.g. the application must be made on the prescribed form, there is a cut off date for applications to be received, retrospective applications from students who have missed an assessment deadline are not accepted and an administrative fee is charged.

Note that all OAC students may choose to enrol in either the on-campus (also known as 'internal') or distance (also known as 'external') versions of units in those courses where both versions are available.

Rationale

The overwhelming majority of distance education students are enrolled on a part-time basis because they have to attend to other commitments and responsibilities in addition to their studies. Family, work and community all demand attention. These needs cannot be put aside - they are sometimes seasonal ones which are not negotiable (harvest, shearing etc), sometimes they are less predictable arising from the unexpected work or domestic developments - and they frequently clash with the requirements of a traditional assessment schedule. For many otherwise capable students it becomes particularly difficult and sometimes impossible to conform with a rigid schedule of expected assessment submissions. The end result is that students without the opportunity of the ESO are discouraged from continuing their studies because they receive a Fail Incomplete (FI) grade despite having already done considerable work and/or because they face repeating studies which they have already completed to a satisfactory level.

Many academically able distance education students thus could not fulfil unit assessment requirements according to the College's traditional rigid schedule and unacceptably low numbers were proceeding to graduation. While there was provision for seeking extensions on assignment submission dates from individual academics, the College found this by no means afforded sufficient flexibility for the needs of many students to be met.

In many instances students would be unable to resolve their dilemma of conflicting responsibilities and would either cease study activity resulting in fail grades or else withdraw from their units without academic penalty. Their intentions to complete their course within a planned timeframe would be shattered. It was not uncommon for such students to inform staff that they felt personally inadequate in being unable to conform to the institution's requirements; inevitably they would not re-enrol in their course for the next semester.

A major challenge for OAC was then to develop enabling systems and structures so that more students were retained in its distance program. OAC sought mechanisms to facilitate learners seeking to manage their study requirements within the context of their complex personal demands. The College's response was to formalise some flexibility for students by empowering them to lift traditional end points for units of study.

History

The policy was initially experimental and has been reviewed several times with its current expression the result of considerable reflection and evolution. The most recent review occurred in 1996 when a Working Party reported to OAC's Learning Committee following an exhaustive investigation and analysis of the policy. Substantive issues investigated included learning outcomes, persistence rates, costs, effects of academic and student workloads, equity considerations, ethos, the application to all units, administrative efficiency, associated policies and consistency.

This report led to the Learning Committee providing overwhelming support for the continuance of the policy while recommending adjustments to some operational details. OAC's College Board accepted the recommendations of the Learning Committee. The Extended Semester Option is currently available to students in all of OAC's distance education units.

Other distance education providers

While each distance education institution is mindful of the need to provide students with flexibility, no single approach to this has been popularised. Each provider has developed its own approach, some are systematic such as Open Learning Australia which allows students to elect to complete their unit in the unit's next study period of offering and The Open Polytechnic of New Zealand which permits students to elect up to two years before sitting their final exam in the unit. Some other institutions have more informal systems in place.

Student perspectives and realities

In 1995 the views of the College's distance education students on this Extended Semester Option policy and its effectiveness were sought. The mail survey generated a response rate of about 50% with 96% of respondents indicating the need for the continuance of the policy. In so doing they cited many impelling reasons such as the additional time delay for the learner at a distance associated with using the mail service to obtain texts on loan from OAC's Library, the relatively quick and simple process to select the option compared with more cumbersome alternative systems, and the value of the control resting with the student who has to manage their study in association with other important responsibilities.

Distance education is characterised by relatively high rates of withdrawal from units and courses. Comparative data collected by OAC has shown that this policy has contributed to a significant increase in completion rates. The student survey revealed that this policy has provided many students with the flexibility they needed to remain enrolled in their units and successfully complete their studies.

Administratively this policy has led to a huge reduction in the time spent by academic staff dealing with assignment extensions. It has removed the issue of inconsistency in treatment and variation in judgement between different staff. Similar savings in time, cost and anxiety have accrued to students.

Feedback received from distance education students suggests that they prefer to complete their studies within the standard timeframe and choose the option only when they perceive a genuine need to do so.

Summary

It is considered that this approach is a fundamental element in the success of the College's distance education program and the endorsement of the Academic Board is requested.

It is recommended that the Academic Board endorse the Extended Semester Option policy operating in the distance education program at the Orange Agricultural College.

Graduate Studies Committee
Amendment of the Resolutions of the Senate and adoption of new Resolutions

Faculty of Engineering

Degrees and Diplomas in the Faculty of Engineering

The Resolutions of the Senate relating to Degrees and Diplomas in the Faculty of Engineering (p 327, *Calendar 1996, Vol 1*) are amended to as follows with immediate effect:

- The current heading “Degrees and Diplomas in the Faculty of Engineering” is replaced by the heading “Degrees, Diplomas and Certificates in the Faculty of Engineering”.
 - The following new section 3. is added:
 3. The certificates in the Faculty of Engineering shall be:
 - (a) Graduate Certificate in Technology Commercialisation.
-

Graduate Certificates in Engineering

The following new Resolutions of the Senate relating to Graduate Certificates in Engineering are adopted immediately:

GRADUATE CERTIFICATES

1. The admission and work of candidates and the award of the graduate certificates shall be the responsibility of the Committee for Postgraduate (Coursework) Studies of the Faculty (the “Committee”).
 2. Applications for admission to candidature shall be made to the nominated director of studies for the specific graduate certificate concerned.
 3. The Committee may, on the recommendation of the head of department or director of studies concerned, admit to candidature for a graduate certificate within the Faculty an applicant who is -
 - (a) a graduate in Engineering of The University of Sydney;
 - (b) any other graduate of The University of Sydney who has completed courses acceptable to the Committee;
 - (c) a graduate of any other university who has obtained such qualifications or completed such courses as are acceptable to the Committee;
 - (d) a person who furnishes such evidence of special fitness as satisfies the Committee that such person is qualified to enter upon systematic courses of study in the field of the graduate certificate concerned.
 4. Except with the special permission of the Committee, a candidate shall complete all requirements for the award of the certificate within two years.
 5. A candidate for the graduate certificate shall complete courses to a total value of 10 units as prescribed by the Faculty and set out in the tables of courses for that certificate.
 6. Provided that at least five of the units required for any certificate are completed from among the courses in the table of courses specified for that certificate, a candidate may receive credit for work completed in programs of study recommended by the head of the department or school concerned and approved by the Committee as equivalent to the courses of the certificate concerned provided that such work has not previously been credited towards award of any other certificate, diploma or degree.
 7. On the completion of the requirements for the graduate certificate the head of the department or director of studies concerned shall report the results of the assessment to the Committee which shall determine the result of the candidature.
 8. On the recommendation of the head of department or director of studies concerned, the Committee may terminate any candidature on the grounds of insufficient progress.
-

Faculty of Health Sciences

Degrees, Diplomas and Certificates in the Faculty of Health Sciences

The Resolutions of the Senate relating to the Degrees, Diplomas and Certificates in the Faculty of Health Sciences (p 355, *Calendar 1996, Vol 1*) are amended to the following effect from 1 January 1998:

Section 2. Is amended:

- by adding the following new sub-section
(l) Graduate Diploma in Clinical Data Management (GradDipCDM)
- and
- by re-lettering the existing sub-sections (l) to (q) as (m) to r respectively.

Faculty of Law

The Resolutions of the Senate relating to the Degrees and Diplomas in the Faculty of Law (pp 372-383, *Calendar 1996, Vol 1*) are amended as follows from 1 January 1998:

- Proposed changes to Senate Resolutions relating to existing programs (Master of Taxation, Master of Criminology, Graduate Diploma of Criminology) may be approved by the Academic Board. These are shown by italicisation.
- Proposed changes to Senate Resolutions relating to the introduction of new programs require Senate approval. These are shown by underlining.
- A wide-scale revision of Senate and Faculty Resolutions is currently underway within the Faculty of Law to effect changes to nomenclature in accordance with Resolutions of the Academic Board. However, for the purpose of obtaining approval for proposed changes to Senate Resolutions set out below, which are associated with the exercise of obtaining approval for new or amended postgraduate programs, the nomenclature used in the *University of Sydney Calendar 1996 Statutes and Regulations* has been adopted.

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DEGREES AND DIPLOMAS IN THE FACULTY OF LAW

1. The degrees in the Faculty of Law shall be:
 - (a) Bachelor of Laws (LLB)
 - (b) Master of Laws (LLM)
 - (c) Master of Administrative Law and Policy (MALP)
 - (d) Master of Asian and Pacific Legal Systems (MAPLS)
 - (e) Master of Criminology (MCrim)
 - (f) Master of Environmental Law (MEL)
 - (g) Master of International Taxation
 - (h) Master of Health Law (MHL)
 - (i) Master of Jurisprudence (MJur)
 - (j) Master of Labour Law and Relations (MLLR)
 - (k) Master of Taxation (MTax)
2. The diplomas in the Faculty of Law shall be:
 - (a) Graduate Diploma of Law (GradDipLaw)
 - (b) Graduate Diploma in Commercial Law (GradDipCommLaw)
 - (c) Graduate Diploma in Corporate, Securities and Finance Law (GradDipCorpLaw)
 - (d) Graduate Diploma in Criminology (GradDipCrim)
 - (e) Graduate Diploma in Environmental Law (GradDipEnvLaw)
 - (f) Graduate Diploma in Jurisprudence (GradDipJur)
 - (g) Graduate Diploma in Taxation (GradDipTax)

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MASTER OF ADMINISTRATIVE LAW, MASTER OF ASIAN AND PACIFIC LEGAL SYSTEMS, MASTER OF CRIMINOLOGY, MASTER OF ENVIRONMENTAL LAW, MASTER OF HEALTH LAW, MASTER OF INTERNATIONAL TAXATION, MASTER OF JURISPRUDENCE, MASTER OF LABOUR LAW AND RELATIONS AND MASTER OF TAXATION.

1. In these resolutions unless the context of subject matter otherwise requires:

'Committee' means the Postgraduate Studies Committee appointed by the Faculty pursuant to resolutions of the Senate;

'degree' means the degree of Master of Administrative Law and Policy or Master of Asian and Pacific Legal Systems or Master of Criminology or Master of Environmental Law or Master of Health Law or Master of International Taxation or Master of Jurisprudence or Master of Labour Law and Relations or Master of Taxation; and

'Faculty' means the Faculty of Law.

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DIPLOMAS

1. (1) Admission to candidature for any of the graduate diplomas other than the Graduate Diploma of Law and Graduate Diploma in Commercial Law may be granted:
 - (a) to an applicant who has completed the requirements for a degree of Bachelor of the University of Sydney; or
 - (b) to a graduate of another university or tertiary institution; or
 - (c) to any person who furnishes evidence which satisfies the Faculty that person is qualified to enter upon systematic courses of study in the subject matter of the graduate diploma for which that person is an applicant for admission.
- (2) An applicant for admission to candidature for the Graduate Diploma of Law and Graduate Diploma in Commercial Law shall, except as provided in Chapter 10 of the by-laws, hold or have fulfilled the requirements for the degree of Bachelor of Laws.
- (3) Admission to candidature for a graduate diploma may be limited by quota. In determining the quota, the University will take into account:
 - (a) availability of resources, including space, library, equipment and computing facilities; and
 - (b) the coordination of coursework programs and the availability of adequate and appropriate supervision.
- (4) In considering an application for admission to candidature, the Faculty shall take account of the quota and will select in preference applicants who are most meritorious in terms of subsections 1(a)(i) and (ii) above.
- 1A. (a) Applications for admission to candidature for any graduate diploma shall be made in writing and lodged with the Registrar by the end of November prior to the first year of intended candidature, provided that:
 - (i) applications from intending candidates whose eligibility depends on examination results which are not available by the above date shall be lodged within seven days after such examination results are available;
 - (ii) the Dean or the Dean's nominee may extend the above time limits generally or in a particular case.
- (b) Applications shall be considered by the Postgraduate Studies Committee of the Faculty of Law who may admit applicants to candidature.
- (c) The Postgraduate Studies Committee may delegate to the Associate Dean (Postgraduate) the power to admit or the power to recommend the admission of applicants who satisfy the requirements of section 1.
- 1B. Courses shall have a unit value based on class hours: 1 unit equals 26 class hours. Courses will be 1 or 2 units as prescribed by the Faculty.
2. (a) Lecturers in all courses shall keep rolls or attendance records.
- (b) A candidate for any graduate diploma whose attendance record at classes in a course for which he or she is enrolled is unsatisfactory may be refused permission to take the annual assessment in that course. A candidate refused such permission shall be deemed to have discontinued the course without failure.
- (c) For the purposes of this resolution attendance at less than 70 per cent of scheduled classes shall be deemed to be an unsatisfactory attendance record.
3. All candidates for the Graduate Diploma in Commercial Law shall:
 - (a) attend the courses of instruction in 4 units of the courses prescribed for the graduate diploma from time to time by the Faculty; and in the order approved by the Dean;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
4. All candidates for the Graduate Diploma in Corporate, Securities and Finance Law shall:
 - (a) attend the courses of instruction in 4 units of the courses prescribed for the graduate diploma from time to time by the Faculty; and in the order approved by the Dean;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
5. All candidates for the Graduate Diploma in Criminology shall:

- (a) attend the courses of instruction *in 4 units* of the courses prescribed for the graduate diploma from time to time by the Faculty; and in the order approved by the Dean;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
- 6.** All candidates for the Graduate Diploma in Environmental Law shall:
- (a) attend the courses of instruction in 4 units of the courses prescribed for the graduate diploma from time to time by the Faculty; and in the order approved by the Dean;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
- 7.** All candidates for the Graduate Diploma in Jurisprudence shall:
- (a) attend the courses of instruction in 4 units prescribed for the graduate diploma from time to time by the Faculty;
 - (b) present an essay, which shall be the equivalent of a 2-unit course on a problem within the subject matter of the graduate diploma, the subject of the essay to be approved by the Head of the Department of Jurisprudence;
 - (c) pass the assessment as prescribed in all courses attended.
- 8.** All candidates for the Graduate Diploma of Law shall:
- (a) attend the courses of instruction in 4 units prescribed for the graduate diploma from time to time by the Faculty;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
- 9.** All candidates for the Graduate Diploma in Taxation shall:
- (a) attend the courses of instruction in 4 units of the courses prescribed for the graduate diploma from time to time by the Faculty; and in the order approved by the Dean;
 - (b) pass the assessment as prescribed by the Faculty in all courses attended.
- 10.**
- (a) All candidates for graduate diplomas shall complete all requirements for the graduate diploma during a period of not less than one academic year and of not more than two academic years from first enrolment in the graduate diploma, provided that such period may be varied by the Dean on application by a candidate.
 - (b) On written application the Dean may permit a candidate who has been admitted to candidature but who has not enrolled for a first time to defer enrolment for a period of one year.
 - (c) The Dean may call upon any candidate for a graduate diploma to show cause why the candidature should not be terminated by reason of unsatisfactory progress towards the completion of the graduate diploma. The Dean may, where in the Dean's opinion the candidate does not show good cause why he or she should be permitted to continue the candidature, recommend to the Postgraduate Studies Committee that the candidature be terminated. In that event the Committee may terminate a candidature.
 - (d) The Dean may delegate his or her powers under (a), (b) or (c) to an Associate Dean.
- 11.** A candidate may be given credit towards the requirements of a graduate diploma in respect of units completed for a master's degree or for any other graduate diploma within the Faculty where the work completed is at a level judged satisfactory by the Committee and the subject matter of the relevant units is judged by the Committee to be sufficiently relevant to the graduate diploma, provided that those units have not been counted towards the award of the degree or the other graduate diploma.
- 12.** With the approval of the Committee, a candidate for a graduate diploma may be granted credit for courses completed towards an equivalent academic qualification in another tertiary institution provided that:
- (a) credit may not be given for more than half the number of courses prescribed for the graduate diploma;
 - (b) the candidate may not take courses in the graduate diploma curriculum substantially similar to courses for which credit has been given;
 - (c) the course for which credit is sought is substantially similar to one of the courses in the graduate diploma curriculum or is otherwise an appropriate course to be granted credit for the graduate diploma in question; and
 - (d) the candidate provides evidence in writing from such other tertiary institution that he or she is not proceeding to completion of an equivalent academic qualification and certifies that she or he has not sought and will not seek credit at that institution for courses completed towards the graduate diploma in this Faculty.
- 13.** Any candidate for a graduate diploma who, without permission of the Faculty or the Dean, discontinues a year or course after the end of second semester shall be deemed to have failed such a year or course.

14. The Associate Dean (Postgraduate) with the approval of the head of department concerned, may certify that candidates have satisfied all the requirements for the award of the graduate diploma and that the graduate diploma may therefore be awarded.

Faculty of Medicine

Degrees and Diploma in Medicine

The Resolutions of the Senate relating to Degrees and Diplomas in Medicine (p 384-5, *Calendar 1996, Vol 1*) are amended to the following effect:

The current entry relating to Degrees and Diplomas in Medicine is replaced by the following new entry:

DEGREES AND DIPLOMAS IN MEDICINE

1. The degrees in the Faculty of Medicine shall be:
 - (a) Bachelor of Medicine (MB)
 - (b) Bachelor of Surgery (BS)
 - (c) Doctor of Medicine (MD)
 - (d) Master of Surgery (MS)
 - (e) Doctor of Philosophy (PhD)
 - (f) Bachelor of Science (Medical) (Honours) (BSc[Med] [Hons])
 - (g) Master of Public Health (MPH)
 - (h) Master of Medicine (MM)
 - (i) Master of Science in Medicine (MScMed)
2. The diplomas in the Faculty of Medicine shall be:
 - (a) Graduate Diploma in Public Health (GradDipPH)
 - (b) Graduate Diploma in Medicine (GradDipMed)
 - (c) Graduate Diploma of Science in Medicine (GradDipScMed)
 - (d) Graduate Diploma in Physical Medicine (Musculoskeletal) (GradDipPhysMed)
 - (e) Graduate Diploma in Indigenous Health Promotion (GradDipIndigHProm)
3. (1) The degree of Master of Medicine by coursework and treatise shall be awarded in:
 - (a) Clinical Epidemiology
 - (b) Psychotherapy
 - (c) Sexual Health
 - (d) Reproductive Health Sciences and Human Genetics
 - (e) Pain Medicine
 (2) The degree of Master of Science in Medicine by coursework and treatise shall be awarded in:
 - (a) Clinical Epidemiology
 - (b) Reproductive Health Sciences and Human Genetics
 - (c) Sexual Health
 - (d) Pain Medicine
 (3) The certificate for the degrees shall specify the discipline in which the degree is awarded.
4. (1) The Graduate Diploma in Medicine shall be awarded in:
 - (a) Sexual Health
 - (b) Pain Medicine
 (2) The Graduate Diploma of Science in Medicine shall be awarded in:
 - (a) Sexual Health
 - (b) Pain Medicine
 (3) The certificate for the graduate diplomas shall specify the discipline in which the graduate diploma is awarded.

Graduate Diploma in Indigenous Health Promotion

The following new Resolutions of the Senate relating to the Graduate Diploma in Indigenous Health Promotion are adopted from 1 January 1998:

GRADUATE DIPLOMA IN INDIGENOUS HEALTH PROMOTION

1. An applicant for admission to candidature shall apply in writing to the Faculty for such admission to candidature.
2. Except as provided for in Chapter 10 of the by-laws, admission to candidature may be granted to an applicant who
 - (1) is a graduate of the University of Sydney or who furnishes evidence which satisfies the Faculty that the person is qualified to enter upon the prescribed courses of study in the subject matter of the diploma;
 - (2) is able to demonstrate working experience in Aboriginal and Torres Strait Islander communities, including experience in engaging communities in action to improve their health;
 - (3) is able to demonstrate knowledge of and sensitivity to working with Aboriginal and Torres Strait Islander people; and
 - (4) has the support for his/her candidature from his/her community and, where relevant, from his/her employer.
3. Applications from suitably qualified Aboriginal and Torres Strait Islander people will be given priority.
4. A candidate shall proceed either as a full-time candidate or a part-time candidate and shall so advise the Faculty.
5. A candidate shall be admitted to the Faculty on a probationary basis for a period not exceeding twelve months, and upon completion of this period the Faculty shall review the candidate's work and shall either confirm or terminate the candidature.
6.
 - (1) A candidate shall complete such courses and projects as may be prescribed by the Faculty on the recommendation of the Head of the Department of Public Health and Community Medicine.
 - (2) The Head of the Department of Public Health and Community Medicine shall report the result of the examination of the coursework and projects to the Faculty which shall determine the result of the candidature.
7. A full-time candidate shall complete the requirements for the Diploma not earlier than the end of the first year of candidature and, except with the permission of the Faculty, on the recommendation of the Head of the Department of Public Health and Community Medicine, not later than the end of the second year of candidature.
8. A part-time candidate shall complete the requirements for the Diploma not earlier than the end of the second year of candidature and, except with the permission of the Faculty, on the recommendation of the Head of the Department of Public Health and Community Medicine, not later than the end of the fourth year of candidature.
9. The Faculty may, on the recommendation of the Head of the Department of Public Health and Community Medicine, terminate the candidature of a candidate who, in the opinion of the Faculty, has not made satisfactory progress towards fulfilling the requirements for the Diploma.

Extract from the report of the Working Party on Electronic Submission of Theses

The Working Party appointed to consider electronic submission of theses comprised Dr M King (Chair), Professor J Gero, Dr R Ross and Mr C Wood and it had the power to co-opt. The Working Party met twice and consulted broadly within the University.

The Working Party reports as follows:

The brief of the working party was to consider the feasibility of the electronic submission of research theses with respect to time saving during the examination process, to consider possible ways this may be achieved and to assess the practicality, advantages and disadvantages of the 'electronic submission of theses' option. The working party would also make recommendations as to how the university might proceed in the light of evidence collected.

The working party held a series of discussions with a range of people concerned with the publication of electronic journals and with the transfer of large quantities of text and data electronically. Discussions also took place with colleagues with expertise in the compatibility of hardware and software currently available in universities. From advice received it would appear that there are three practical options available for the electronic transmission of theses. These are:

- Thesis placed on the Web with HTML address for the examiner to down-load in full or by chapter sections.
- To receive the thesis electronically as postscript files. (Available on the Web or sent on disk.)
- As a series of chapter files on disk in a format of the examiners choice.

As a result of the information gathered, an electronic questionnaire was prepared comprising of six questions. This questionnaire was sent to 139 of our most recent examiners for whom we had e-mail addresses, 22 were returned as "Host unknown" leaving a possible 117 responses. In all 61 responses have been received to date. The responses were as follows:

- 1) **Had you been given the option of receiving a thesis for examination in electronic form would you have seriously considered it?**
 Yes = 26 No = 24 Possibly = 9
- 2) **Assuming that a fee was paid to you to cover down-loading and print-out costs, which of the following options would have been most convenient to you?**
 - a) Web with HTML address Yes = 13 Possible = 8
 - b) As postscript files Yes = 16 Possible = 26
 - c) Files on Disk Yes = 18 possible = 18
- 3) **Assuming that compatibility problems could be overcome, do you see any advantages associated with the electronic submission of research theses?**
 Yes = 29 No = 21 Possibly = 8
- 4) **Would you have found it helpful to have received an electronic version of the 'Examiners report' form?**
 Yes = 40 No = 13 Perhaps = 8
- 5) **Has any other university offered you this option?**
 Yes = 0 No = 61
- 6) **Please give your views on the advantages and disadvantages of electronic submission of theses as you see them.**
 (The responses of examiners to this question are set out below.)

Advantages

- (a) Savings in preparation cost and in time to students
- (b) Speeds up the examination process
- (c) Savings in time and workload in Faculty Offices
- (d) Savings in transmission time and cost
- (e) You would know quickly if a thesis went astray in the post
- (f) Increase in convenience and reduction in bulk handling of paper
- (g) Allows dynamic animations and graphics which print does not
- (h) Promotes the notion of alternative forms of theses
- (i) Emendations and typos become very much easier to handle

- (j) Examiners could make direct comments in the text easily
- (i) The most common response: It is more environmentally and tree friendly

Disadvantages

- (a) Problems of compatibility between different systems of software and hardware.
(This was the most common and significant disadvantage noted by examiners)
- (b) Fear of loss of formatting and hence appearance of poor presentation
- (c) It transfers cost and inconvenience to the examiner
- (d) More difficult to browse through theses or to refer backward or forward
- (e) Potential problems with security and ease of copying
- (f) Difficulty with issues of protection of intellectual property rights, ie. ideas can be too easily stolen
- (g) Why introduce problems when we have a system which works

General comments and observations made by examiners which were unsolicited

- (a) Most marking of theses is done at home and while we may have the equipment at work we do not necessarily have the same equipment at home.
- (b) If we do not have colour print-out facilities it removes that option from the student.
- (c) Examiners are busy people and you should not transfer additional load and expense to them.
- (d) Photographs do not transfer with sufficient clarity electronically yet to make it a viable proposition at the moment.
- (e) It simply is not yet universally practicable but it is probably inevitable in time.
- (f) Security concerns relating to the ease with which theses could be tampered with was often raised.
- (g) Electronic 'Examiners report' forms is a good idea and could be treated as a fast return item.

Other Data

Percentage positive responses by Faculty.

			N=
Arts	50%	positive response	10
Agriculture	0%	positive response	2
Architecture	0%	positive response	2
Business/commerce	66%	positive response	6
Dentistry	0%	positive response	2
Education	100%	positive response	4
Engineering	66%	positive response	3
Medicine/Health sciences	80%	positive response	9
Science	60%	positive response	23

Percentage positive response by country (minimum 5+ responses)

			N=
Australia	42%	positive response	26
Canada	42%	positive response	7
UK	60%	positive response	8
USA	90%	positive response	10

Conclusions

There are clearly some strong and valid objections at the moment to the electronic submission of theses. Many examiners commented that it is probably inevitable that this will happen sometime in the future but currently the technology and the problems of availability and compatibility of hardware and software does not allow it as a viable option for all theses. However, in many cases examiners were positive and would consider accepting theses for examination in an electronic form if that form complied with their own hardware and software formatting requirements.

There was considerable consensus about the future potential of this form of submission albeit the general feeling was 'not yet' or 'only in those cases which suits both the examiner and the student'. However, there was a very positive response to the notion of an electronic examiners form sent by e-mail as an attachment in addition to the print form which accompanies the thesis.

Extract from the Report of the Working Party on Electronic Publication of Theses

The Working Party comprised:

Dr M King (Graduate Studies Committee) (Chair)

Professor G Berry (Chair, PhD Award Sub-Committee)

Mr T Clark (President, SUPRA)

Professor J Gero (Graduate Studies Committee)

Professor R McPhedran (Chair, Library and Information Technology Committee)

Mr T Robinson (Assistant University Archivist)

Ms K Sexton (University Library)

- (1) The University should remain committed to the notion of electronic publication of research theses for the following reasons:
- a) Theses contain information at the cutting edge of research and much detailed information is never published. Having a system of easy access to such material makes recent research findings instantly and easily available to the research community and would ensure a global audience for our work.
 - b) The easy availability of theses could serve as an initiator for future work, minimise the possibility of duplication of effort and offer enhanced support for areas of research strength.
 - c) Making theses available on the WWW would significantly increase the visibility of University of Sydney research and researchers both in Australia and the rest of the world, thus ensuring greater exposure and recognition for our students and our university.
 - d) There is a recognised lack of knowledge within the research community about what research theses exist in particular areas, there is a lack of information about the content of theses and there is difficulty with the ready availability of theses. A move to electronic publication and their inclusion on the WWW would go a long way to reducing these problems and ensure that a currently under utilised information resource becomes more readily available.
 - e) The move towards electronic submission of theses makes the electronic publication and archiving of theses a more viable option for the future and would encourage multimedia approaches which could then be appropriately stored and displayed.

In summary, the facility of electronic publication would make a contribution to our research culture, would enable easy access to cutting edge research methodologies and findings, would lead to faster applications of research results, would increase international linkages, would ensure greater visibility for our students and our university and would enhance the national research infrastructure and so assist future research initiatives.

- (2) The GSC should recognise that the best way forward at this point is not clear for a number of reasons:
- a) Standardisation of formatting requirements to ensure convenient access through WWW and to satisfy long term storage requirements is still unresolved.
 - b) The extent to which electronic availability on the WWW constitutes formal publication which may conflict with later publication in Journals.
 - c) The safeguarding of copyright and conflict with intellectual property guidelines.
 - d) The issue of web access, security and plagiarism.

There are other initiatives currently underway in this area, notably the RIEFP proposal on the 'Digitisation of Australian Theses' in which Sydney University is participating in a UNSW lead consortium of 7 major universities nationwide. Consequently unilateral action is not considered wise at this point. (RIEFP = Research Infrastructure Equipment and Facilities Project)

- (3) The working party recommend that the GSC commit to the support of the RIEF project in any way it can as the outcomes of this project have strong potential for informing the future actions of the university with regard to electronic publication of theses.

- (4) It is anticipated that a decision regarding the funding of the RIEFP proposal will be made by the end of 1997 and the working party would recommend that the GSC revisit the issue in the light of that decision. It is also recommended that the GSC receive 6 monthly reports on the progress of that project.
- (5) The working party recommend that we establish a database through the university archivist (Tim Robinson) of useful and relevant URL addresses of information related to the electronic publication of theses.
- (6) As an interim measure the working party recommend that we create a web accessible database of theses and abstracts. In the first instance this might apply to theses passed from 1 January 1998.

Since the Library already catalogues all the University's research theses, it is recommended that we ask the library to investigate the feasibility of establishing such a database and to report on the resource implications of doing this.

January 1998 is the anticipated publication date of the National Australian Standards for the Preservation of Electronic Materiel. The working party see it as important that any initiatives taken by the University are in line with agreed National Australian Standards. In addition, there are still some legal and copyright grey areas which require further definition and it is recommended that the library be asked to keep a watching brief on developments in these areas.

- (7) With the imminent publication of the National Australian Standards for the Preservation of Electronic Materiel, and the potential developments with respect to the electronic publication of theses associated with the university's involvement in the RIEFP proposal, we recommend that the working party which recently considered the issue of 'Electronic Submission of Theses' be merged with the current working party on 'Electronic Publication of Theses' in order to ensure congruence and continuity of advice to the GSC. Such a group might be called the 'Electronic Submission and Publication of Theses' working party, and be asked to maintain a watching brief on behalf of the GSC on developments in this area.