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ABSTRACT

The use of telecommunications and satellite technology in external studies programs at colleges and universities in Western Australia is described, and statistics on programs and courses available in the external mode are provided. Reports on new teaching developments are provided for the following institutions: Murdoch University; the University of Western Australia; the Western Australian Institute of Technology; the Western Australian College of Advanced Education; the Technical Extension Service; and the regional colleges (Hedland College; Kalgoorlie College; and Karratha College). Important organizational and operational developments are noted, including plans for a national interinstitutional telecommunications network, operational trials of FM subcarrier technology for distance education, and teleconferencing sessions on distance education issues. Data are provided by institution on: student enrollments by age and mode of study; enrollments by address of home location and mode of study; and enrollments by mode and field of study. For each institution and field of study, information is presented on courses that are available externally. (SW)

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EXTERNAL STUDIES 1984

Part 1

General Information

Second Annual Report of the External Studies Review Group

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- EXTERNAL STUDIES REPORT 1984 -

Part 1

GENERAL INFORMATION

Second Annual Report of the External Studies Review Group

NOTE: Statistical information and details of courses available in the external mode are provided in Part 2 of the Report.

August 1985

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PART ONE - GENERAL INFORMATION

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INTRODUCTION

The External Studies Review Group has agreed that its annual reports, as well as outlining developments in external studies during the year, should focus on a particular area of interest. The focus in this, the second annual report, is on telecommunications and satellite technology. Subsequent reports will focus on issues such as credit transfer and the role of the regional colleges with respect to external studies.

External studies in award courses are provided by four institutions in Western Australia: Murdoch University, the Western Australian Institute of Technology, the Western Australian College of Advanced Education and the Technical Extension Service of the Technical Education Division. The University of Western Australia does not offer external studies but has transfer arrangements with Murdoch University for students wishing to use this mode of study.

The provision of external studies is supported throughout the State by regional and TAFE colleges at various country centres. These colleges offer a number of services to students resident in their areas, who are enrolled as external students elsewhere. These colleges also offer some advanced education courses through contracting arrangements with metropolitan institutions for students who live in their regions and who prefer this as an alternative to studying in the external mode.

The External Studies Review Group is aware of the recent WAPSEC report on credit transfer and will be considering its implications for external studies during the coming year.

Members hope that the comments contained in this report will be of use to both the Western Australian Post Secondary Education Commission (WAPSEC) and the Commonwealth Tertiary Education Commission (CTEC) in planning for the provision of external studies in WA and throughout Australia.

NEW TEACHING DEVELOPMENTS

Murdoch University

The "integrated" model of two-mode teaching adopted at Murdoch University is based upon the objective of providing all students with the same courses taught to the same standards by the same academic staff, whether taken "on" or "off" campus. This basic principle not only ensures academic parity but also facilitates students' movement between the "internal" and "external" modes as their individual circumstances demand. In order to ensure this flexibility, the University must develop and maintain a wide range of course units in the external mode so as to enable students to proceed right through to graduation by distance education, rather than being required to move to on-campus study to complete their higher level course units. Provision of full degree courses, or programs, entirely in the external mode has been a critical factor in establishing external study at Murdoch as a viable alternative rather than merely a substitute form of tertiary educational provision. As long as course delivery is confined to mailed print and audio-visual materials, a wide range of course offerings is quite appropriate. As and when the use of broadcast media, and more particularly, television, is contemplated, the obvious lack of economies of scale in individual course units presents a severe constraint. One of the major challenges facing the University is therefore to find ways of enhancing students' learning at a distance by increasing the use of communications technologies, whilst avoiding the severe cost penalties involved in the production and transmission of external course materials through the "big media".

As foreshadowed in the 1983 report, Murdoch University has introduced two new undergraduate programs and three graduate diplomas in 1984 with a very economical net increase of only 15 course units.

Emphasis has been placed on encouraging the production of course units which serve the needs of more than one award program and on reinforcing systems for rotating the presentation of pairs of complementary course units between alternate years.

There has been considerable interest in assessing and trialing applications of new communications technologies. Initial steps have been taken to establish "dialup" facilities through which off-campus students may access the University's mainframe computer to enhance the versatility of loaned or self-owned micro-computers. Video cassettes were introduced

on a limited basis. Staff of the School of Social Inquiry, Educational Services and Teaching Resources and the External Studies Unit were also heavily involved in the development and implementation of the first Australian operational trials of FM radio sub-carrier 'narrowcasting' through 6UWS (FM) Universities Radio Ltd. (Further details are included in the section of this report devoted to Telecommunications and Satellite Technology).

In 1985 Murdoch University will introduce both undergraduate degree and postgraduate diploma programs in Computing for completion in both the internal and external modes. The existing master's degree by coursework in Literature and Communication will be complemented by the introduction of a bachelor's degree in Literature and Communication in the external mode only. A major innovation in 1985 is an undergraduate degree program in Women's Studies through which students will be able to complete a Murdoch degree including core courses taken from both Queensland and Deakin Universities by distance education.

Murdoch is currently involved in discussions with the four other major providers of University external studies with the object of building on the base established in Womens Studies so as to provide for and to encourage wider inter-University enrolment in the external mode.

University of Western Australia

University Extension offers four large and comprehensive community education programs each year including the University of Western Australia's Annual Summer School. Staff from Murdoch University and the Western Australian Institute of Technology provided a significant contribution to the success and diversity of the community course provision. In addition, University Extension provides professional and administrative support for the development of continuing education programs for University faculties and departments and training and development courses for other external agencies.

Off-campus community courses were offered at Geraldton and Wanneroo and the Canning Vale Prisons complex and in 1984, for the first time, nine non-award courses were offered in the external mode in University Extension's Spring Community Education program:

Practising Academic Skills Successfully

Australian Political Systems

Women in Australian Society

Soil Conservation

The Young Handicapped Child

Accounting 1

Marketing Techniques: An Introduction to Decision Making in Marketing

Understanding Economics

Social Issues in Modern Drama

These courses were franchised from the Darling Downs Institute of Advanced Education and enrolments have been sufficiently encouraging to warrant the continuation of this initiative in 1985.

A print-supported community course, "The First Years of Life" was presented through 6UWS (FM) Universities Radio Ltd. and in collaboration with Murdoch University during the latter's Australian operational trials of FM sub-carrier technology.

University Extension continued its involvement with satellite communications through the "University uses of satellites" project conducted by Dr James Lange, postdoctoral research fellow from the University of Guam. Regular consultation, and a weekly teleconference via University Extension's ATS-1 satellite maintained contact with educators and administrators throughout Australia, New Zealand and the Pacific basin nations, and with other user groups such as the Royal Flying Doctor Service, Aboriginal communities and emergency services. The results of these activities and research have led to a preliminary cost/benefit analysis of telecommunications networks for Australian education which will be presented as a final report of the "University uses of satellites" project. (See the section on Telecommunications and Satellite Technology for further details of FM sub-carrier and telecommunications developments).

The Western Australian Institute of Technology

In 1984 external studies at WAIT was opened to all students, whereas previously only disadvantaged students had been able to study externally. All students may now elect to study externally if the unit of study is available in the external mode. No great increase in numbers was experienced in 1984. However, this change in policy is expected to have an effect on numbers for 1985.

The number of units to be offered in 1985 has increased to 330. Many units have been reviewed throughout 1984 with special attention being given to first year units in Social Sciences. New units in the Bachelor of Applied Science (Library & Information Studies), Bachelor of Applied Science (Nursing) and Bachelor of Business degrees will be available in 1985.

The review of and improvement of quality in existing course materials is to be a priority for 1985. The review is to concentrate on both content and presentation of course materials.

After twelve years' service, November 30, 1984 saw the retirement of the Head of the Department, Mr George Idle. His replacement, Dr John Walsh, has been a long-time WAIT staff member holding various academic and administrative positions. Dr Walsh sees his role within the Department as one of consolidation of existing work by updating of material, of extension of offerings, of introduction of the satellite as a means of communicating with external students and finally of research to establish an even better knowledge of the needs of external students.

Several staffing changes within the Department are not expected to alter the Department's already proven efficient operations.

Country centres have played a large role in external studies in recent years and the continued support of the staff in these centres is greatly appreciated. Greater liaison with country centres is expected from 1985, with academic and administrative staff from WAIT visiting more frequently to assist and guide both staff and students in country centres.

Research is currently being undertaken to improve facilities for students, with the possibility of students being able to access information from both the Robertson Library and Computing Centre direct.

Interactive tutorial sessions with country students using the ATS-1 satellite have proved beneficial to both staff and students. It is planned to continue these sessions and, where possible, increase participation in 1985.

A pilot program operating between Bentley and Bunbury using the Excom 100 (Cyclops) will commence in March, extending our participation in technology to computers. The Excom 100 was purchased with the aim of assisting in visual work, with both lecturer and students being able to type or draw simultaneously. The Excom 100 has many possibilities, not only for external studies but also for other departments on the WAIT campus.

WAIT will continue to explore the development and applications of these new systems to improve opportunities for external studies.

During the year WAIT enrolled 192 Extension Students in a wide range of units covering the various Schools of the Institute. This included students undertaking short refresher courses in a particular profession, as well as those studying for personal development and cultural enrichment. These enrolments extended across the whole State.

The Extension Service of the WA College has continued to serve as the centre of all off-campus instruction for students studying in the external mode as well as offering a wide range of community-oriented courses and activities which are self-supporting.

The external studies component of the Extension Service offered eleven courses in 1984, nine of which were available fully in the external mode. Approximately 220 discrete units were available to in excess of 1500 students who were enrolled at some time during the year.

The Extension Service has had a major task in 1984 revising existing units and preparing for the influx of a large number of units to be offered for the first time in 1985 consequent upon the restructuring of teacher education courses by the College. Furthermore, a new course at the associate diploma (UG3) level was mounted in the area of Community Languages in Portuguese and Vietnamese. This course is unique in Australia and has been well received by students studying externally.

The enclave in Broome, which caters mainly for Aboriginal students who wish to train as teachers, has continued to flourish with further Diploma of Teaching units being prepared. The College is also involved with an extension of this project at Carnarvon in 1985.

In the last quarter of the year, the Extension Service took advantage of the ATS-1 satellite to hold two interactive audio-seminars with students undertaking core units in the Bachelor of Education course. A further pilot activity was undertaken in conjunction with the Golden West network by providing a one-way video presentation involving three programs concerned with a core unit in the Bachelor of Education course.

In order to obtain some idea of students' perceptions of the Extension Service and its activities, a questionnaire was sent to all re-enrolled students covering such broad aspects as reasons for undertaking courses, advantages and disadvantages of studying in the external mode, communication difficulties and counselling, support services and usefulness of materials. Approximately 25 per cent of students responded and a report was circulated throughout the College.

At the end of 1984 the Extension Service was given the responsibility for co-ordinating all administrative and procedural aspects of courses contracted with other institutions. Both Hedland and Kalgoorlie Colleges taught units on behalf of the WA College and a further two institutions will become involved in 1985.

The Community programs run by the Extension Service cover a wide range of community interests including a locally certificated course for teacher-aides. In 1984 the College offered in excess of 150 courses involving nearly 3 000 participants.

Technical Extension Service

Although the major activity of Technical Extension Service remains the servicing of 16 000 subject enrolments and maintenance of the 600 subjects on offer, there has been considerable expansion in other areas of activity, including research into specific aspects of external studies and the continued development of the rapid response systems for the design of instructional materials.

One significant piece of research has been an investigation into the reasons why a substantial number of students enrol, but fail to submit any work. The results of a computer analysis of the responses to questionnaires are expected to be made available to other external studies institutions within the next few months. It is anticipated that the current project will be followed up with a number of other research projects designed to improve our understanding of the sort of people who enrol in TAFE courses and the factors promoting the successful undertaking of studies.

The rapid response model for the design of instructional materials has been under development for a number of years and, in 1984, it proved to be most effective in meeting the demands made by syllabus changes in a number of study areas. As a result, TAFE was able to continue to offer, in the external mode, courses which would otherwise have had to be suspended pending updating of the syllabus teaching materials. It is anticipated that, with the recent installation of the Wordplex 8000 word processor at Technical Extension Service, and the development of a computerized catalogue of instructional modules, the capability of Technical Extension Service to provide learning materials, as and when required, will be further enhanced.

In addition to improvements in the development of materials, there has been some work done on new delivery strategies, and on the evaluation of student services. However, these projects are still in the very early stages and it is not likely that any information will be available until early 1986.

In 1984, the TAFE Country Network was established, and its scale of operation has grown, slowly but steadily. Previously this operated as the Technical Extension Service Country Agency scheme. The network scheme is based upon the notion of a Rural Co-ordinator being appointed

to act as a resource person for a particular country region. In consultation with the community being served, the Rural Co-ordinator identifies the need for particular education programs. An appropriate response is arranged which may be face-to-face or external tuition depending on demand and available resources. In 1985 three new centres will join the network. These are the TAFE centres at Manjimup, Kellerberrin and Kununurra. The total number of participating centres will then be 13.

In order to meet the needs of the Network for information, and as part of its contribution to the general operation, Technical Extension Service has become a service provider on Telecom's Viatel Service (a public access view data service). It has also made available, to some of the smaller and more remote members of the network, the Duct teleconference units which were designed by the South Australian Education Department, and which have proved highly effective, both from a technological point of view and also in providing a cost-effective service to remote students.

In addition to its connections with the TAFE Country Network, Technical Extension Service is also involved in the development of the national TAFE External Studies Network. As a contribution to this network, the Technical Extension Service has undertaken to publish all new course materials in either hard copy or digital form, and to make the digital stored materials available either on floppy discs, or by direct transmission through Telecom services to compatible terminals anywhere in Australia.

The national network is also working on the establishment of consortium and bureau arrangements for the development, production and tutoring of selected external courses. A number of agreements have been entered into and it is anticipated that the first courses will be on offer by the end of 1985.

The following non-award subjects were offered externally by the Technical Extension Service in 1984:

Artificial Flower Making
Drama Practical
Dressmaking Elementary
Dressmaking Practical Home
Freelance Journalism
General Drawing 1
General Drawing 2
Home Decoration
Home Management
Interior Decoration (Planning Your House)
Interior Decoration (Decorating Your Home)
Interior Decoration (Introduction to Antique Furniture)
Interior Decoration (Arranging Your Furniture)
Landscape Sketching
Landscape Sketching (Advanced)
Leatherwork
Lettering
Macrame
Oil Painting
Pottery
Short Story Writing
Short Story Writing (Advanced)
Soft Furnishings
Watercolour Techniques (Landscape)
Watercolour Techniques (Advanced)
Adult Literacy
Air Conditioning Principles
Cake Decorating 1P
Food and Nutrition
Health
Introduction to Creative Writing
Justice of Peace Course
Mathematics Remedial
Noise Control for Businessmen
Small Craft Navigation
Small Craft Seamanship

Reference has already been made to the contribution made by the regional colleges in providing support services to students resident in their regions who are undertaking external studies through metropolitan institutions. These colleges were invited to contribute to this annual report, and their comments are set out below.

Time did not allow for the views expressed by the regional colleges to be discussed with the External Studies Review Group prior to the preparation of this report. However, a number of issues of mutual concern will be discussed during 1985 and the outcome of these exchanges will be included in a subsequent annual report.

Hedland College

In 1984, the College extended its services to the small communities of the Eastern Corridor, with the establishment of Centres and appointment of part-time co-ordinators in Telfer, Shay Gap and Goldsworthy. Arrangements were completed with Mt Newman Mining to establish a Centre at the Redmont Line Camp, using the services of a company employee as the College representative. This leaves Marble Bar as the remaining Centre to be developed in 1985.

Each Centre is, or will be, equipped with the following resources aimed at promoting the furthering of education through external studies:

- a collection of books and reference material to help students locate appropriate courses;
- a microfiche reader and copy of the College's catalogue, along with links with library resources through the services of the part-time co-ordinator.

Similar facilities also exist in the major Centre at Newman.

The College has also adopted a philosophy in course design and selection of favouring subjects and courses supported by external studies.

The following courses have been made available through the College, based on their availability in distance learning programs:

- Bachelor of Applied Science (Nursing) (WAIT) - students enrol externally with WAIT and are supplied tutorial assistance through the College. This is supplemented by one or two workshops per semester conducted

by WAIT staff. Unfortunately there are two problems associated with this program. Only the first year of the two-year conversion program is available externally at present and WAIT is not enthusiastic about continuing with the 1984 type of delivery - essentially because of a lack of resources. The options WAIT wishes to offer to candidates for this course are: either to undertake external studies exclusively, with attendance at WAIT for workshops; or to study at the local institution, which will assume complete responsibility for the delivery of the program. In the latter case WAIT would provide course materials and semester assignment topics and the local lecturer would teach the program and mark the assignments during the semester. WAIT staff would mark the end of semester papers. The problem this poses for Colleges is the recruitment of acceptable staff. There are people available who can tutor in a program but who are not always acceptable when total responsibility is required.

- Associate Diploma in Engineering (Darling Downs Institute of Advanced Education) - students again enrol externally and receive tutorial support throughout the year from the College. This is supplemented by a residential week held at the College annually and run by College staff. This gives students exemption from the requirement to attend the parent institution.
- Bachelor of Arts (Murdoch University) - selected first year units have been arranged for delivery in Hedland in a "core" format that will permit study in later years in four different areas. The first of the units will be undertaken in 1985. For the present, students will enrol externally. A later development is expected to be full, local teaching of the selected units.
- Bachelor of Business (WAIT) - the first year of this program is offered as a fully taught program on contract. It was selected as the most appropriate business program for Hedland College to offer because students could complete the two remaining years through external studies should they be long-term residents in the area.

The centres for which the College is responsible have small populations. The potential number of students is therefore small. To make class sizes viable only two or three units are offered per semester in most programs. Thus the units to be offered over the subsequent three or more years need to be widely known in the community so that potential

students can take full advantage of them when planning their courses. In this situation, the role of the parent institution's external studies program is to make available units to those students who can handle more units than the College is offering, or to offer a choice of modes for those who prefer distance education. Some students may need to repeat a unit before it next becomes available under the College's cycle of offerings. Metropolitan external studies units thus complement the activities of the provincial Colleges.

Kalgoorlie College

There is no doubt that external studies provides a very important, alternative, study mode to students in country regions. However, sufficient attention has not been given to the support of such students using the resources and facilities of centres such as Kalgoorlie College. Currently the College has a fairly informal relationship with the Technical Extension Service and Murdoch University to provide "support" for their students, but this support structure should be and could be significantly strengthened. As with the contracting arrangements with Perth-based institutions, there should be some provision for "contracting" to service the needs of external students; this implies, of course, some funding allocation to the regional colleges in accordance with some predetermined "formula". The College would be delighted to be a formal "study" centre for external students and would provide tutorial support and access to equipment on some short, residential, basis if the necessary funding could be provided.

The people of the Kalgoorlie region should have access to any course offered in the external mode, irrespective of whether it comes from this State or not. To achieve this it may be necessary to convince CTEC that some alternative funding arrangement should be made, so that Colleges providing services can be funded directly on the basis of "enrolled" service students, rather than the present system where any funding must come from the institution granting the award. With the advent of AUSSAT, the problems relating to the servicing of students could be increased and perhaps we should be looking at some formal mechanism for funding allocations along the lines developed by WAPSEC for contracting.

Karratha College

Karratha College has been examining the means by which it may be able to provide constructive support for students living in its region and who are studying in the external mode from other institutions. Three needs have been identified to assist the College to provide this support:

- the need for the numbers and names of people from the region who are doing external studies to be provided to the College;
- the need for a system for delivering tutorial assistance for these people;
- the need for adequate library and resource support within the regional college.

In establishing a tutorial system there is a need to find some means of recompense for the College so that tutorial support can be allocated on a regular but flexible basis and not fitted in in staff spare time. Some formal system of recompense also would allow regional colleges to provide practical experiences (for example, in computing courses) for external students, thus enhancing the quality and flexibility of such courses. The Murdoch external studies tutoring model is one under consideration.

The need for close collaboration between educational sectors and between educational institutions in planning and developing the uses of communications technology was recognised in 1979 with the establishment of the WA Satellite Educational Advisory Group (WASEAG). Over the past five years, this informal group has provided a forum for the exchange of information, for publication and dissemination of ideas and for ensuring that those working on the educational applications of satellite technology received support and practical assistance.

Other committees involving representation of tertiary institutions have been the WA Government Communications Centre and the National Working Party on Telecommunications for Tertiary Education.

In 1984 there have been further important organisational and operational developments.

- The Inter-Institutional Committee on Educational Telecommunications

The four tertiary institutions in WA, working through the agency of the Tertiary Institutions Service Centre, have appointed a Telecommunications Coordinator, Dr James Lange, with a brief to facilitate co-operative projects in educational telecommunications.

Through Dr Lange's initiative this Committee has been involved in the planning and initial implementation of two important collaborative ventures.

Plans for the Introduction of a National Inter-Institutional Telecommunications Network

It is proposed that in 1985 a number of educational institutions throughout Australia will install the equipment necessary to conduct group audio teleconferencing and facsimile exchange. Some institutions may be in a position to go further and include provision for videoconferencing. Experience using such a system with terrestrial links in 1985 will establish whether the post-secondary education institutions can justify setting up a dedicated satellite-based network for future use in the exchange of teaching, research and administrative material.

An experiment in educational TV broadcasting (ED-TV) was established under the sponsorship of the Golden West Network operating out of its Bunbury studios. Program material was provided by the Audio-Visual branch of the Education Department for school children, by TAFE and by WAIT, WACAE and UWA. The Federal Government's announcement on 10 October 1984 that commercial television for outback areas will be provided by regional TV interests emphasised the importance of this experiment.

- FM Radio Sub-Carrier Use for Distance Education

Murdoch University received a grant from the Commonwealth/State Advisory Committee on the Educational Use of Communications Technology to conduct the first Australian operational trials of FM sub-carrier technology through 6UWS (FM) Universities Radio Ltd.

Working in collaboration with University of Western Australia Extension, staff of Murdoch University established a system whereby tuition was "narrowcast" from the University's audio-studio through the 6UWS transmitter to decoder receivers established in individual students' homes and other institutional locations. Feedback from students to tutor was provided by telephone and conversation between an individual student and the studio-based academic staff was re-narrowcast for all tutorial participants to hear and respond to. An educational evaluation of the trials showed that participant students and staff were appreciative and felt that the system had great value in providing for direct course-related interaction for external students. Disadvantages of this technological innovation include the current cost of decoder receivers (approximately \$180-00) and the limited transmission range of 6UWS (FM). Advantages include the cost effectiveness of operation, since transmission costs are borne by the mainsignal on which the sub-carrier is "piggy-backed" and charges are incurred for only one telephone line at a time by comparison with the multiple costs for lines used in standard tele-conferencing. Murdoch University, with the co-operation of 6UWS(FM) and subject to the authority of the Department of Communications, hopes to continue provision of FM sub-carrier tuition in 1985. It will also be seeking ways of extending the current range of narrowcasting transmissions to serve a greater number of external students.

- WAITNet

By the early part of 1984 the Western Australian Institute of Technology had developed a network of ATS-1 terminals located at Albany, Bunbury, Collie, Kalgoorlie and the Perth campus.

This approved network was possible through the co-operation and support of the regional colleges and centres at each of these locations.

- Tertiary Distance Education or "Kangaroo" Net

A consortium of Australian institutions involved in distance education formed a Tertiary Distance Education Network with the Darwin terminal operating as the main co-ordinator through Dr K Livingston. These institutions have met weekly to participate in a range of teleconferencing sessions on a variety of issues related to distance education. The broadcasts covered inter-institutional conference on study centres, the use of communications technology, administration, servicing students from other institutions, conference planning and special point to point exchanges. The Western Australian Institute of Technology has been quite active in this network with special contributions from the External Studies Unit at Murdoch University for selected sessions.

CONCLUSION

This report has focused on the use of telecommunications and satellite technology which have been developed as co-operative ventures among institutions within the State. The External Studies Review Group welcomes the recently announced establishment by the Commonwealth Tertiary Education Commission of the Standing Committee on External Studies which will, under its terms of reference, examine new technologies which might be further used for on-site and off-campus education.

During 1984, members of the Review Group participated in the WAPSEC seminar on credit transfer which considered possible future courses of action to further open up opportunities for students. It is clear that the needs of external students must be taken into account when credit transfer is examined as a measure of facilitating academic progress, particularly when the problems encountered by that group of students are often greater than those of students based on campus. The Review Group will examine this issue further and monitor developments.

There continues to be a strong spirit of co-operation between members of the Review Group and this is reflected in the report of its activities during 1984. The Review Group notes that issues concerning the cost effectiveness of the provision of alternative techniques for the provision of external studies will be considered at a national level by the CTEC Standing Committee and looks forward to the benefits which should be obtained from an appraisal of measures which have already been taken by the various providers of external studies throughout the country. The Review Committee is pleased to record that one of its members has been asked to serve as a member of the CTEC Standing Committee.

The review of existing services and the proposals for future development outlined under the section of this report headed "New Teaching Developments" reflect a commitment to policies which will improve the facilities and opportunities for external students, having regard for their special needs. It is agreed that the provision of services to external students during 1984 has been facilitated by the spirit of mutual co-operation which continues to exist amongst members of the External Studies Review Group.

EXTERNAL STUDIES 1984

Part 2

Statistical Information

Second Annual Report of the External Studies Review Group

- EXTERNAL STUDIES REPORT 1984 -

Part 2

STATISTICAL INFORMATION

Second Annual Report of the External Studies Review Group

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TABLE 1: Student enrolments by age and mode of study, UNIVERSITY AND ADVANCED EDUCATION, WESTERN AUSTRALIA (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	24	10	34	5	5	10	29	15	44
18	14	18	32	16	19	35	30	37	67
19	17	9	26	34	55	89	51	64	115
20-29	604	610	1214	260	244	504	864	854	1718
30-39	648	640	1288	154	197	351	802	837	1639
40-49	258	316	574	47	82	129	305	398	703
Over 49	78	95	173	14	17	31	92	112	204
Not Stated	40	96	136	2	2	4	42	98	140
TOTAL:	1683	1794	3477	532	621	1153	2215	2415	4630

a) Age at 31 December of preceding year

TABLE 2: Student enrolments by age and mode of study, TECHNICAL EXTENSION SERVICE, PERTH (1984)

Age (a) (Years)	Fully External		
	Males	Females	Persons
Under 18	562	221	783
18	232	154	386
19	169	119	288
20-29	1 844	888	2 732
30-39	1 217	630	1 847
40-49	421	258	679
Over 49	161	135	296
TOTAL	4 606	2 405	7 011

a) Age at 31 December of preceding year.

TABLE 3: Student enrolments by age and mode of study, MURDOCH UNIVERSITY (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	3	2	5	-	1	1	3	3	6
18	4	7	11	9	6	15	13	13	26
19	4	3	7	18	24	42	22	27	49
20-29	163	182	345	110	93	203	273	275	548
30-39	218	206	424	49	89	138	267	295	562
40-49	93	101	194	14	26	40	107	127	234
Over 49	40	49	89	8	9	17	48	58	106
Not Stated	-	-	-	-	-	-	-	-	-
TOTAL:	525	550	1075	208	248	456	733	798	1531

a) Age at 31 December of preceding year.

TABLE 4: Student enrolments by age and mode of study, WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	-	-	-	-	2	2	-	2	2
18	-	-	-	-	2	2	-	2	2
19	-	-	-	-	-	-	-	-	-
20-29	165	225	390	7	25	32	172	250	422
30-39	138	240	378	16	25	41	154	265	419
40-49	71	127	198	9	18	27	80	145	225
Over 49	13	17	30	-	-	-	13	17	30
Not Stated	37	94	131	2	2	4	39	96	135
TOTAL:	424	703	1127	34	74	108	458	777	1235

a) Age at 31 December of preceding year.

TABLE 5: Student enrolments by age and mode of study, WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Age (a) (Years)	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Under 18	21	8	29	5	2	7	26	10	36
18	10	11	21	7	11	18	17	22	39
19	13	6	19	16	31	47	29	37	66
20-29	276	203	479	143	126	269	419	329	748
30-39	292	194	486	89	83	172	381	277	658
40-49	94	88	182	24	38	62	118	126	244
Over 49	25	29	54	6	8	14	31	37	68
Not Stated	3	2	5	-	-	-	3	2	5
TOTAL:	734	541	1275	290	299	589	1024	840	1864

a) Age at 31 December of preceding year

TABLE 6: Student enrolments by address of home location and mode of study, UNIVERSITY AND ADVANCED EDUCATION (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	710	719	1429	446	541	987	1156	1260	2416
Rest of WA	582	639	1221	62	61	123	644	700	1344
Other	391	436	827	24	19	43	415	455	870
TOTAL:	1683	1794	3477	532	621	1153	2215	2415	4630

TABLE 7: Student enrolments by address of home location and mode of study,
TECHNICAL EXTENSION SERVICE, PERTH (1984)

Address of home location	Fully External		
	Males	Females	Persons
Perth Metropolitan Area	2 210	1 346	3 556
Rest of W A	2 011	958	2 969
Interstate	349	94	443
Other	36	7	43
TOTAL	4 606	2 405	7 011

TABLE 8: Student enrolments by address of home location and mode of study,
MURDOCH UNIVERSITY (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	309	264	573	200	217	417	509	481	990
Rest of WA	139	175	314	6	28	34	145	203	348
Other	77	111	188	2	3	5	79	114	193
TOTAL:	525	550	1075	208	248	456	733	798	1531

TABLE 9: Student enrolments by address of home location and mode of study,
WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	123	254	377	30	69	99	153	323	476
Rest of WA	125	240	365	4	2	6	129	242	371
Interstate	89	165	254	-	1	1	89	166	255
Overseas	87	43	130	-	1	1	87	44	131
Not Stated	-	1	1	-	1	1	-	2	2
TOTAL:	424	703	1127	34	74	108	458	777	1235

TABLE 10: Student enrolments by address of home location and mode of study,
WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Address of home location	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Perth Statistical Division	278	201	479	216	255	471	494	456	950
Rest of WA	318	224	542	52	31	83	370	255	625
Interstate	103	99	202	8	6	14	111	105	216
Overseas	33	13	46	13	7	20	46	20	66
Not Stated	2	4	6	1	-	1	3	4	7
TOTAL:	734	541	1275	290	299	589	1024	840	1864

TABLE II: Student enrolments by mode and field of study, MURDOCH UNIVERSITY (a) (1984)

Field of study description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
General Studies	22	26	48	2	5	7	24	31	55
Arts & Economics	196	220	416	52	101	153	248	321	569
Education	67	145	212	48	78	126	115	223	338
Science (Pure & Applied)	180	72	252	99	49	148	279	121	400
Veterinary Science	-	-	-	1	5	6	1	5	6
Program Choice deferred	1	2	3	1	3	4	2	5	7
UWA Degree	7	15	22	1	2	3	8	17	25
Degree from other Uni.	2	32	34	-	-	-	2	32	34
Not for Degree	29	12	41	1	4	5	30	16	46
TOTAL:	504	524	1028	205	247	452	709	771	1480

(a) Post-graduate enrolments not included

TABLE 12 : Student enrolments by mode and field of study, TECHNICAL EXTENSION SERVICE, PERTH (1984)

Field of study description	Fully External		
	Males	Females	Persons
Applied Science	501	229	730
General Studies	226	266	492
Art & Design	17	91	108
Building	314	6	320
Business Studies	1 346	1 104	2 450
Engineering	1 376	66	1 442
Rural & Horticulture	364	162	526
Para Medical	118	394	512
Industry Services not elsewhere classified	327	15	342
Personal Services not elsewhere classified	17	72	89
TOTAL	4 606	2 405	7 011

TABLE 13: Student enrolments by mode and field of study, ADVANCED EDUCATION (1984)

Field of study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Agriculture	36	10	46	19	8	27	55	18	73
Architecture	27	2	29	1	-	1	28	2	30
Arts	142	290	432	39	130	169	181	420	601
Business Studies	388	95	483	135	50	185	523	145	668
Education	498	709	1207	72	120	192	570	829	1399
Engineering	27	1	28	34	2	36	61	3	64
Health	23	128	151	10	49	59	33	177	210
Science(Pure & Applied)	17	9	26	11	14	25	28	23	51
Non-Award	-	-	-	3	-	3	3	-	3
TOTAL:	1158	1244	2402	524	373	697	1482	1617	3099

TABLE 14: Student enrolments by mode and field of study, WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION (1984)

Field of Study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Arts	46	77	123	1	8	9	47	85	132
Business Studies	-	-	-	-	1	1	-	1	1
Education	371	596	967	30	64	94	401	660	1061
Health	7	30	37	-	1	1	7	31	38
Non-Award	-	-	-	3	-	3	3	-	3
TOTAL:	424	703	1127	34	74	108	458	777	1235

TABLE 15: Student enrolments by mode and field of study, WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY (1984)

Field of Study Description	Fully External			Mixed Mode			Total		
	Males	Females	Persons	Males	Females	Persons	Males	Females	Persons
Agriculture	36	10	46	19	8	27	55	18	73
Architecture	27	2	29	1	-	1	28	2	30
Arts	96	213	309	38	122	160	134	335	469
Business Studies	388	95	483	135	49	184	523	144	667
Education	127	113	240	42	56	98	169	169	338
Engineering	27	1	28	34	2	36	61	3	64
Health	16	98	114	10	48	58	26	146	172
Science(Pure & Applied)	17	9	26	11	14	25	28	23	51
TOTAL:	734	541	1275	290	299	589	1024	840	1864

Programs and Courses Available in the External Mode

The units for each program and course which are available externally are listed. The availability of programs and courses, whether fully or partially, is also noted.

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

AVAILABILITY

TECHNICAL EXTENSION SERVICE

Diploma in Building

Part

- Communication 1
- Building Construction Drawing 1
- Building Science B
- Builders' Bookkeeping and Costing
- Quantities 1B
- Building Construction 1B
- Building Construction Drawing 2
- Building Construction 2B
- Quantities 2B
- Building Organisation 1
- Quantities 3B
- Building Organisation 2
- Work Study 1

Diploma and Certificate in Municipal Building Surveying (Under Review)

Part

- Communication 1
- Building Construction 1B
- Building Construction 2B
- Communication 2

Diploma and Certificate in Construction Estimating (Building) Part

- Building Construction 1B
- Builders' Bookkeeping and Costing
- Buildings Construction 2B
- Quantities 1B
- Communication 1
- Quantities 2B
- Quantities 3B

Diploma in Plumbing Design (Under Review)

Part

- Communication 1
- Building Construction 1B

Certificate in Building Construction (Under Review)	
Communication 1	Part
Building Construction 1B	
Quantities 1B	
Building Construction 2B	
Quantities 2B	
Builders' Bookkeeping and Costing	
Diploma, Clerk of Works	
Communication 1	Part
Building Construction 1B	
Building Construction 2B	
Builders' Bookkeeping and Costing	
Quantities 1B	
Quantities 2B	

AGRICULTURE

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Agriculture	Part
Associate Diploma in Equine Stud Management	Part
Bachelor of Business in Agriculture	Part

TECHNICAL EXTENSION SERVICE

Diploma in Agriculture (Under Review)	----
Diploma in Grain Management	Part
Cereal Chemistry	
Cereal Agronomy	
Export Practices 1	
Grain Processing	
Export Law and Insurance	
Certificate in Agriculture (Machinery and Construction)	Part
Communication A	
Certificate in Agriculture (Woolclassing)	Part
Shearing Machinery Experting	
Communication A	

Certificate in Grain Husbandry	Part
Communication A	
Grain Sampling	
Pest Control 1	
Grain Storage	
Supervision (Elements of)	
Grain Handling	
Pest Control 2	
Certificate in Agriculture (Sheep and Wool)	Part
Shearing Machinery Experting	
Communication A	
Certificate in Agriculture Protection	Part
Agricultural Protection A	
Legislation and Policies	
Declared Plant Control	
Declared Animal Control	
Communication A	
Extension Practice	
Environmental Science 1	
Environmental Managements	

ARTS

MURDOCH UNIVERSITY

Comparative Literature (B.A.)	Full
Asian Studies (1985) (B.A.)	Full
Bachelor of Arts in Literature & Communication (B.Lit.)	Full
Master of Arts in Literature & Communication (M.A.)	Full

COMPARATIVE LITERATURE

H229	Theory of the Novel
H233	Drama East & West
H237	Contemporary Studies in the Novel
H238	European Literature & Social Context
H280	Modern Poetry
H281	Drama Ritual & Magic
H282	Drama Society & Politics
H284	Australian Literature
H288	Principles of Comparative Literature
H289	Literary Theory
H290	Popular Literature

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ASIAN STUDIESAVAILABILITY

- H244 Asian Literature & Literary
Theory
- H250 Rural Society in Southeast
Asia
- H251 Southeast Asian Literature &
Society
- H254 Southeast Asian Political
Economy
- H256 Perceptions of Southeast Asian
Society
- H257 State & Revolution in
Southeast Asia
- H261 Malay/Indonesian II
- H266 Indonesian Religious History
- H267 Asian Mystical Movements
- H268 Revolutionary China
- H278 China Since the Cultural
Revolution
- H361 Malay/Indonesian III

BACHELOR OF LITERATURE & COMMUNICATION

- H402 Methods of Textual Analysis
- H403 The Frontiers of Literature
- H411 Comparative Drama Theory
- H412 Language as Ideology

MASTERS IN LITERATURE & COMMUNICATION

- H501 Literary Structures
- H510 Author Study
- H511 Reading Television
- H513 Mass Communication Systems
- H514 Poetry & Poetics
- H515 Representation & Sexual
Differences

- | | |
|--|------|
| Economics (B.A.) | |
| History (B.A.) | Full |
| Social & Political Theory (including Honours) (B.A.) | Full |
| Women's Studies Inter-University Programme (1985) (B.A.) | Full |
| | Full |

ECONOMICS

- S258 Mineral Economics
- S260 Macro-Economic Theory & Policy
- S261 Business Enterprises, Markets
& Consumers
- S263 Economic Development
- S265 Australian Economic History
- S267 Resource & Environmental
Economics

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- S270 Australian Monetary & Fiscal Policy
 S271 Theories of Capital Growth & Distribution
 S273 Studies in Industrialisation
 S274 Public Finance

HISTORY

- S238 Aboriginal History
 S257 Modern Russian History
 S259 European Socialism & Revolution
 S275 Australian Social History I
 S276 Social History of Modern Southeast Asia
 S277 Australian Labour History
 S278 Western Australia from 1829
 S279 Australian Social History II
 S283 Australian Environmental History
 S291 Economic History of Southeast Asia since 1500
 S293 European Social History
 S298 Anglo-American Societies 1620-1815

SOCIAL & POLITICAL THEORY

- S205 Philosophy of Social Sciences
 S206 Environmental Ethics
 S208 History of Modern Social & Political Theory
 S210 Resource Politics
 S239 Australia & Global Political Economy
 S256 Work in Industrial Society
 S296 Australian Society & Politics
 S299 Third World Transformation & the International Order

WOMEN'S STUDIES (B.A.)

- S215 Women, Capitalism & the Family
 H273 Women & Literature

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Asian Languages

Part

Bachelor of Arts

Part

Indonesian 101

Multicultural Issues 111

Multicultural Issues 112

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Associate Diploma in English
Language, Literature & Culture 111

AVAILABILITY
Part

Bachelor of Arts (Literature Major only)

Part

Australian Studies 111
Australian Studies 112
Australian Studies 211
Australian Studies 212
Australian Studies 393-1 (XH)
Australian Studies 393-2 (PW)
Language, Literature & Culture 111
Literature 211
Literature 212
Literature 213
Literature 312
Literature 393-04 (PW)

Bachelor of Arts (SOCIAL SCIENCES)

Full

Core Units

Social Science 111
Social Science 112
Social Science 211
Social Science 215
Social Science 391
Social Science 392

Options

Anthropology 111
Anthropology 115
Anthropology 215
Anthropology 216
Anthropology 218
Anthropology 314
Anthropology 315
Anthropology 316
Anthropology 318
Geography 106
Geography 111
Geography 112
Geography 211
Geography 217
Geography 311
History 111
History 112
History 211
History 216
History 218
History 311
History 316
Politics 111
Politics 112
Politics 215
Politics 216
Politics 221
Politics 222
Politics 311
Politics 391
Politics 513
Sociology 121
Sociology 122

Sociology 211
 Sociology 214
 Sociology 311
 Sociology 313
 Sociology 314
 Sociology 315
 Sociology 316
 Urban Studies 301
 Welfare Practice 101
 Welfare Practice 102
 Welfare Practice 201
 Welfare Practice 202
 Welfare Practice 301
 Welfare Practice 302

Associate Diploma in Social Sciences Full
 As above

Bachelor of Applied Science (LIBRARY STUDIES) Part
 Bibliography Organisation 201
 Librarianship Seminar 100
 Library Materials 101
 Library Materials 101
 Library Skills 100
 Library Studies 101
 Library Studies 102
 Resources for Children 300
 Science & Society 101
 Science & Society 102
 Social Science 111

Bachelor of Applied Science Part
 English 150
 Psychology 113
 Psychology 114
 Sociology 121
 Sociology 122

WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION

ASSOCIATE DIPLOMA IN COMMUNITY LANGUAGE STUDIES Full

Portuguese 101 Introductory Oral Portuguese
 Portuguese 102 Introductory Written Portuguese
 Portuguese 201 Basic Communicative Portuguese
 Portuguese 202 Traditional Stories in Portuguese
 Vietnamese 101 Introductory Oral Vietnamese
 Vietnamese 102 Introductory Written Vietnamese
 Vietnamese 201 Basic Oral Vietnamese
 Vietnamese 202 Traditional Stories in Vietnamese
 Portuguese 301 Portuguese (Social Security)
 Portuguese 303 Portuguese (Health)
 Vietnamese 302 Vietnamese (Press)
 Vietnamese 303 Vietnamese (Health)
 Linguistics 390
 Linguistics 391
 Interpreting and Translating 100: Principles and Practices of Interpreting and Translating 1

GRADUATE DIPLOMA IN RELIGIOUS EDUCATION STUDIES

Full

Catholic Education 421 Curriculum Design in Religious Studies
 Religious Education 411 Curriculum Development in Religious Education
 Educational Psychology 443 Human Relationships and Values Education
 Studies in Religion 417 Religion, Society and Education
 Studies in Religion 411 Old Testament
 Studies in Religion 412 New Testament
 Studies in Religion 414 Hinduism and Buddhism
 Studies in Religion 415 Judaism and Islam
 Catholic Studies 412 Revelation and Christology
 Catholic Studies 422 Sacraments and Christian Worship

GRADUATE DIPLOMA IN READING STUDIES

Full

Reading 445 Teaching Reading as a Language Process
 Reading 446 The Study and Evaluation of Reading — Language Performance
 Reading 447 Remediation and Reading
 Reading 448 An Analysis and Evaluation of Current Reading Materials
 Reading 554 Teaching Reading as a Language Process Prac. II
 Reading 555 Reading Workshop and Core Studies
 Reading 556 Teaching Reading as a Language Process Prac. III
 Reading 557 Reading in Language Investigation: Action Research

GRADUATE DIPLOMA IN INTERCULTURAL STUDIES

Full

Intercultural Studies 590 Cross Cultural Perspectives
 Intercultural Studies 591 Cross Cultural Communication
 Intercultural Studies 592 Intercultural Research
 Intercultural Studies 593 Research Essay
 Aboriginal Studies 591 Traditional Aboriginal Society
 Aboriginal Education 591 Developments in Aboriginal Education
 Intercultural Education 590 Comparative Ethnic Education
 Linguistics 590 Intercultural Linguistics
 Linguistics 591 Australian Aboriginal Linguistics
 Language Education 593 Teaching English as a Second Language
 Migrant Education 591 Developments in Migrant Education
 Migrant Studies 591 Australian Immigration: Policies and Perspectives
 Migrant Studies 593 Migrant Communities
 Aboriginal Studies 593 Aborigines and Social Change

GRADUATE DIPLOMA IN LANGUAGE STUDIES

Full

Language Studies 580 English and the Study of Language
 Language Studies 581 Language Study and Classroom Application
 Language Studies 583 Language Acquisition and Development
 Language Studies 584 Children's Literature
 Language Studies 585 Language Variation and Australian Society
 Language Education 580 Precedents and Policies in Language Arts
 Language Education 585 Principles of Second Language Teaching
 Language Education 587 Media in Language Teaching
 Language Education 588 Precedents and Policies in Modern Language Education
 Language Education 584 Oracy and Literacy
 Language Education 586 Advanced Methodology in TESL
 Language Education 591 Language in Learning

TECHNICAL EXTENSION SERVICE

Certificate of Fluency in a Foreign Language (French)

Full

French 1
 French 2
 French 3
 French 4

Certificate of Fluency in a Foreign Language (Italian)

Full

Italian 1
 Italian 2
 Italian 3
 Italian 4

Certificate of Fluency in a Foreign Language (Spanish)	
Spanish 1	Part
Spanish 2	
Spanish 3	
Certificate in Commercial Art	Part
Drawing 1D	
Lettering 1D	
Product Illustration 1	
Drawing 2D	
Diploma in Social Studies	Part
Certificate in Social Studies	Part
Communication 1	
English Literature (TAE Std)	
Economics (TAE Std)	
Geography (TAE Std)	
History (TAE Std)	
Communication 2	
Social Science 1	
English Literature (TAE Std)	
Economics (TAE Std)	
History (TAE Std)	
Geography (TAE Std)	
Psychology 1	
Sociology 1	
Geography 2	
History 2	
Social Statistics	
Philosophy 1A	
Social Science 2	
Psychology 2A	
Geography 2	
History 2	
Social Science 2	
Psychology 2A	
Psychology 2B	
Diploma and Certificate in Art Studies	Part
History 4 AS	

BUSINESS

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Associate Diploma in Business (Accounting)	all units	Full
)	
Associate Diploma in Valuation) listed	Full
)	
Bachelor of Business) below	
(Accounting)		Full
(Accounting and Business Law)		Full
(Financial Management and Economics)		Full
(Information Processing)		Full

(Information Systems)	Full
(Local Government)	Full
(Marketing)	Full
(Personnel and Industrial Relations)	Full
(Public Administration)	Full
(Secretarial Administration)	Full
(Valuation and Land Administration)	Full
Accounting 151	Full
Accounting 152	
Accounting 204	
Accounting 205	
Accounting 306	
Accounting 307	
Accounting 308	
Auditing 301	
Auditing 302	
Building 181	
Building 182	
Economics 151	
Economics 152	
Economics (Industrial) 201	
Economics (Macro) 202	
Economics (International) 311	
Economics 312	
Finance (Introductory) 201	
Finance (Managerial) 212	
Finance (Public) 303	
Industrial Relations 212	
Industrial Relations 301	
Law (Business) 151	
Law (Contract) 152	
Law (Secretarial) 201	
Law 202	
Law (Corporation) 224	
Law 302	
Law 350	
Local Government 202	
Management Principles 151	
Management Processes 152	
Marketing Management 211	
Office Administration 200	
Personnel 201	
Politics (Aust.) 215	
Politics (Comparative) 216	
Public Administration 201	
Quantitative Methods 151	
Quantitative Methods 152	
Taxation 303	
Taxation 304	
Valuation 121	
Valuation 122	
Valuation 201	
Valuation 202	
Valuation 301	
Urban Studies 301	

Graduate Diploma in Business and Administration & Master of Business (Accounting)	Part
(Business Management)	Full
(Education Administration)	Full
(Financial Management and Economics)	Part
(Public Administration)	Part
Accounting 509	
Accounting 511	
Administration (Ed) 541	
Administration (Ed) 542	
Administration (Ed) 544	
Administration (Public) 503	
Administrative Leadership 505	
Business Policy 511	
Comparative (Ed) 543	
Economics 509	
Economics 511	
Finance 509	
Industrial Relations 501	
Industrial Relations 502	
Law 501	
Law 509	
Law (Administration) 522	
Management 599	
Management Project 590	
Marketing 503	
Marketing 504	
Organisations 509	
Personnel 501	
Personnel 502	
Quantitative Methods 509	

Valuation

Associate Diploma in Valuation	Full
Accounting 151	
Building 181	
Building 182	
Economics (Macro) 152	
Law 151	
Law 152	
Management Principles 151	
Quantitative Methods 151	
Quantitative Methods 152	
Valuation 121	
Valuation 122	
Valuation 201	
Valuation 202	
Valuation 301	
Bachelor of Business (Valuation and Land Administration)	Part
As above plus	
Economics (Micro) 151	
Management Processes 152	
Urban Studies 301	

Diploma and Certificate in Accounting

Full

- Accounting 1A
- Accounting 1B
- Communication 1
- Business Maths and Stats 1
- Social and Economic Structure
- Business Law 1
- Accounting 2A
- Accounting 2B
- Business Law 2
- Business Maths and Stats 2
- Economics 1
- Business Computer Systems A & B
- Accounting 3A
- Accounting 3B
- Taxation Law and Practice A
- Taxation Law and Practice B
- Accounting Administration
- Accounting Controls
- Costing Procedures A
- Costing Procedures B

Diploma in Banking and Finance

Full

- Communication 1
- Accounting 1A
- Accounting 1B
- Communication 2
- Accounting 2A
- Accounting 2B
- Business Law 1
- Economics 1
- Banking Practice
- Business Law 2
- Economics 2G
- Costing Procedures A
- Costing Procedures B
- Accounting 3A
- Accounting 3B
- Lending and Securities

Diploma in Business Administration

Part

- Business Procedures 1
- Communication
- Accounting 1A
- Accounting 1B
- Social and Economics Structure
- Business Maths and Stats 1
- Business Law
- Business Maths and Stats 2
- Business Computer Systems A and B
- Economics 1
- Psychology 1
- Personnel Techniques
- Transport Law

Public Relations
 Organisation Theory
 Taxation Law and Practice A
 Taxation Law and Practice B
 Industrial Relations
 Personnel Management
 Financial Management 1
 Financial Management 2
 Economics 2G

Diploma in Credit Management Part

Business Procedures 1
 Communication 1
 Accounting 1A
 Accounting 1B
 Business Maths and Stats 1
 Business Law
 Credit Theory and Practice
 Business Maths and Stats 2
 Economics 1
 Business Law 2
 Lending and Securities
 Financial Management 1
 Financial Management 2
 Psychology 1
 Organisation Theory
 Office Administration
 Statistics
 Communication 2

Diploma in Local Government (Clerk) Part

Accounting Systems
 Communication 1
 Legal Principles
 Municipal Practice A - Part 1
 Municipal Practice A - Part 2
 Local Government Law 1
 Local Government Accounts 1
 Local Government Accounts 2
 Statistics
 Local Government Law 2
 Municipal Practice B - Part 1
 Municipal Practice B - Part 2
 Administrative Law 1
 Economics 1

Diploma and Certificate in Computer Programming Part

Computer Systems 1
 Communication 1C
 Communication 1

Diploma in Local Government (Treasurer) Full

Accounting Systems
 Communication 1
 Commercial Law C
 Accounting 2A
 Accounting 2B
 Economics 1

Local Government Law 1
 Local Government Law 2
 Local Government Accounts
 Municipal Practice A - Part 2
 Statistics
 Costing Procedures A
 Costing Procedures B
 Business Computer Systems A & B

Diploma in Commercial Studies

Part

Communication 1
 Communication 1C
 Typing 1
 Typing 2
 Bookkeeping (Day Commercial)
 Receptionist Function
 Typing 3
 Communication 2
 Typing Secretarial
 Secretarial Administration
 Accounting 1A
 Accounting 1B
 Accountancy
 Audio Typing 1
 Bookkeeping (Day Commercial)
 Bookkeeping (General)
 Commercial Calculations
 Accounting 2A
 Accounting 2B
 Audio Typing 2
 Data Processing B
 Economics 1
 Financial Management 1
 Meetings Procedure - Companies
 Organisation 1A
 Organisation 1B

Diploma in Secretarial Studies

Part

Typing 3
 Shorthand Speed 50-80 wpm
 Stenography 1
 Communication 1C
 Communication 1
 Shorthand Speed 100 wpm
 Typing Secretarial
 Audio Typing 1
 Stenography 2
 Office Practice 2
 Audio Typing 2
 Stenography
 Communication 2
 Secretarial Administration
 Financial Management 1
 Economics 1
 Meetings Procedure - Companies
 Organisation Theory 1A
 Organisation Theory 1B

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Diploma and Certificate in Advertising

Part

Communication 1
 Legal Principles
 Economics 1
 Psychology
 Statistics
 Financial Management
 Marketing Management 1
 Organisation Theory
 Market Research
 Marketing Management 2A
 Public Relations

Diploma and Certificate in Real Estate Management

Part

Communication 1
 Real Estate Practice 1
 Real Estate Accounting
 Real Estate Law 1
 Real Estate Valuation 1
 Building Construction 1R
 Real Estate Practice 2
 Real Estate Law 2
 Real Estate Valuation 2
 Real Estate Financial Management
 Real Estate Law 3
 Regional Planning
 Economics 1

Diploma and Certificate in Automotive Engineering Management Part

Supervision (Elements of)
 Communication 1
 Legal Principles
 Economics 1
 Psychology
 Public Relations
 Financial Management
 Industrial Relations
 Power Hydraulics 1
 Office Organisation
 Financial Management (Advanced)

Diploma and Certificate in Fire Engineering Management

Part

Communication 1
 Economics
 Psychology 1
 Personnel Techniques
 Industrial Relations
 Organisation Theory
 Public Relations
 Psychology 2B

Diploma in Hospital Administration

Part

Communication 1
 Accounting 1A
 Accounting 1B
 Social and Economic Structure
 Work Study 1
 Commercial Law C
 Hospital Law A
 Psychology 1

Hospital Law B
 Organisation Theory
 Hospital Accounting and Financial Management
 Office Organisation
 Personnel Management

Diploma in Management Studies Part

Work Study 1
 Economics 1
 Communication 1
 Legal Principles
 Psychology 1
 Industrial Relations
 Financial Management 1
 Statistics
 Organisation Theory
 Data Processing A
 Personnel Management
 Financial Management 2
 Production Organisation
 Marketing Management 1
 Office Organisation

Diploma and Certificate in Personnel Management Part

Accounting Systems
 Communication 2
 Statistics
 Industrial Law 1
 Financial Management 1

Diploma and Certificate in Printing Management Part

Communication 1
 Work Study 1
 Legal Principles
 Psychology 1
 Statistics
 Financial Management
 Economics 1
 Industrial Relations
 Organisation Theory
 Personnel Management
 Financial Management (Advanced)
 Production Organisation
 Office Organisation

Diploma in Public Administration Part

Government 1
 Economics 1
 Communication 2
 Government 2
 Government 3

Electives

Accounting 2A
 Accounting 2B
 Economics 2G
 Business Law 1
 Work Study 1
 Instructional Techniques
 Industrial Law 1

AVAILABILITY**Diploma and Certificate in Supply Management**

Part

Communication 1
 Legal Principles
 Supervision, Elements of
 Work Study 1
 Economics 1
 Psychology 1
 Financial Management
 Statistics
 Organisation Theory
 Office Organisation
 Data Processing A
 Financial Management (Advanced)
 Industrial Relations
 Transport Economics
 Personnel Management

Diploma and Certificate in Transport Management

Part

Communication 1
 Accounting Systems
 Statistics
 Financial Management 1
 Economics 1
 Organisation Theory
 Financial Management 2
 Warehouse Management
 Salesmanship

Diploma and Certificate in Work Study

Part

Statistics
 Work Study 1
 Communication 1
 Economics 1
 Legal Principles
 Psychology 1
 Office Organisation
 Financial Management 1
 Industrial Relations
 Psychology 2B
 Organisation Theory
 Data Processing A
 Production Organisation

**Diploma in Marketing
Certificate in Sales Supervision**

Part

Communication 1
 Salesmanship
 Legal Principles
 Accounting Systems
 Sales Supervision
 Economics 1
 Psychology 1
 Marketing Management 1
 Statistics
 Market Research
 Financial Management 1
 Marketing Management 2A
 Organisation Theory

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Certificate in Credit Management	Part
Accounting 1A	
Accounting 1B	
Communication 1	
Commercial Law C	
Economics 1	
Certificate in Commercial Studies	Part
Certificate in Commercial Studies (Part-Time)	
Communication 1C	
Communication 1	
Typing 1	
Audio Typing 1	
Typing 2	
Office Practice 1	
Typing 3	
Commercial Calculations	
Bookkeeping (Day Commercial)	
Bookkeeping (General)	
Audio Typing 1	
Certificate in Secretarial Practice	Part
Certificate in Secretarial Practice (Part-Time)	
Typing Secretarial	
Audio Typing 2	
Office Practice 2	
Shorthand Speed	
Stenography 2	
Accounting 1A	
Accounting 1B	
Certificate in Exporting (Under Review)	Full
Export Law and Insurance	
Export Practice 1	
Economics 1	
Export Marketing 1	
Export Marketing 2	
Export Practice 2	
International Economics	
Certificate in Functional Management (Finance)	Full
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Financial Management (Advanced)	
Legal Principles	
Certificate in Functional Management (Office)	Full
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Work Study 1	
Office Organisation	
Financial Management	

	<u>AVAILABILITY</u>
Certificate in Functional Management (Production)	
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisational Theory	
Work Study 1	
Certificate in Functional Management (Retail)	Part
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Work Study 1	
Certificate in Functional Management (Supply)	Part
Statistics	
Economics 1	
Psychology 1	
Communication 1	
Organisation Theory	
Legal Principles	
Certificate in Retail Management	Part
Communication 1	
Supervision, Elements of	
Financial Management 1	
Certificate in Travel Operation (Under Review)	Part
Communication 1	
Certificate in Employment Consulting	Part
Communication 1	
Business Procedures 1	
Personnel Techniques	
Techniques of Selection	

EDUCATION

MURDOCH UNIVERSITY

AVAILABILITY

Primary Teacher Education (B.A.)	Attendance requirements
Secondary & Post-Secondary Education (B.A./Dip.Ed; B.Sc/Dip.Ed.)	Attendance requirements
Diploma in Education (Dip. Ed.)	Attendance requirements
Bachelor of Education (B.Ed.)	Attendance requirements
Education Studies (B.A.)	Full
Diploma in Education Studies (Dip. Ed. St.)	Full
	Full

- E210 Education Studies Project
- E221 Education in Context
- E222 Australian Education
- E223 Philosophy of Education
- E224 Sociology of Education
- E241 Processes of Learning
- E242 Educational Psychology
- E244 Educational Measurement
- E272 English & the Curriculum
- E273 Social Studies & the Curriculum
- E274 Science & the Curriculum
- E275 Mathematics & the Curriculum
- E277 Diagnostic Teaching
- E282 English & the Primary Curriculum
- E283 Social Studies & the Primary Curriculum
- E284 Science & the Primary Curriculum
- E285 Mathematics & the Primary Curriculum
- E402 Curriculum Processes & Issues
- E403 Religious Education
- E422 National Education Policy &
Administration
- E423 Knowledge Persons & Education
- E424 Sociological Perspectives on Education
- E426 Contemporary Educational Thought
- E434 Education Cross Cultural Perspective
- E441 Advanced Educational Psychology I
- E442 Advanced Educational Psychology II
- E444 Advanced Educational Measurement
- E446 Adult Cognition, Development &
Education
- E466 Mathematics Education
- E471 Classroom Research Project
- E455 Advanced Social Research Methods in
Education
- A222 Social Research Methods

Diploma in Education Administration	Full
Administration (Ed) 361	
Administration (Ed) 362	
Administration (Ed) 363	
Administration (Ed) 364	
Administration (Ed) 365	
Administration (Ed) 391	
Law (Education) 361	
Management Principles 151	
Management Processes 152	
Politics (Aust.) 215	
Bachelor of Education Conversion Course for Qualified Teachers	Full
Education 300 Development & Learning	
Education 330 Analysis of Teaching	
Education 360 School-Based Curriculum Development	
Education 400 Language & Logic in Education	
Education 411 Issues in Education	
Education 420 Strategies of Teaching	
Education 460 Curriculum Theory & Practice	
TAFE	
Education 201 Communication Studies I	
Education 202 Communication Studies II	
Education 230 Introduction to TAFE Teaching	
Education 233 Education Media & Materials	
Education 236 Strategies of TAFE Teaching I	
Education 237 Theory & Practice of Teaching Workshop I	
Education 238 Theory & Practice of Teaching Workshop II	
Education 239 Internship I	
Education 240 Internship II	
Education 267 Curriculum & Instruction I	
Education 304 TAFE in Aust: Foundations & Current Issues	
Education 327 Evaluation of Student Learning	
Education 328 The Psychology of Adolescents & Adults	
Education 329 Technology, Society & Employment	
Education 336 Strategies of TAFE Teaching II	
Education 337 Theory & Practice of Teaching Workshop III	
Education 338 Theory & Practice of Teaching Workshop IV	
Education 339 Internship III	
Education 340 Internship IV	
Education 367 Curriculum & Instruction II	
Graduate Diploma in Science Education	Full
Biology Education 503	
Chemistry Education 504	
Computer Education 505	
Integrated Science Education 506	
Mathematics Education 507	
Mathematics Education 513	
Mathematics Education Project 591	
Mathematics Education project 592	
Physics Education 508	
Science Education 513 - Trends	
Science Education Project 591	
Science Education Project 592	

Science & Mathematics Education 501 - Foundation Issues
 Science & Mathematics Education 502 - Research & Evaluation
 Statistics 511

Master of Applied Science (Science Education) Full
 Mathematics Education Seminar 614
 Mathematics Education Seminar 615
 Mathematics Education Thesis Preparation 1/699
 Mathematics Education Thesis Preparation 2/699
 Science Education Seminar 614
 Science Education Seminar 615
 Science Education Thesis Preparation 1/699
 Science Education Thesis Preparation 2/699

WESTERN AUSTRALIAN COLLEGE OF ADVANCED EDUCATION

DIPLOMA OF TEACHING (CONVERSION) Full

Developmental Psychology 352
 Educational Measurement & Evaluation 353
 Behaviour Modification 360
 Educational Theory 355
 Science Education 200
 Mathematics Education 200
 Mathematics Education 201
 Language Arts (ECE) 301
 Language Arts (ECE) 302
 New Trends in Language Arts 262
 Curriculum Studies in Physical Education
 Migrant Education 391
 Aboriginal Education 390
 Religious Education 208
 Mathematics Education 382
 Perspectives on Art in Education and Contemporary Art 350
 Historical Geography of Early 19th Century W.A. 278 **
 Australia and Asia 391 **
 Environment and Society 214 **
 Urban Australia 210 **
 Western Music 305
 Biology 391 **
 Human Biology 2240 **
 Statistics 310**
 Children's Literature 254 *
 Linguistics 390 *
 Linguistics 391 *
 Theatre History 390 *
 Religious Studies 201 #
 Religious Studies 203 #
 Religious Studies 311 #
 Religious Studies 312 #

BACHELOR OF EDUCATION Full

COMPULSORY UNITS
 Curriculum Theory and Practice
 Evaluation of Teaching and Learning

EDUCATION STUDIES STRAND (6 units)
 Areas of Concentration

(i) **Teaching Children with Special Needs (Special Education)**
 Spec. Ed. 584 Behaviour Management
 Spec. Ed. 593 Reading
 Spec. Ed. 592 Social Skills
 Spec. Ed. 594 Mathematics
 Spec. Ed. 580 Foundation Studies I
 Education 448 Remedial Education I
 Education 449 Remedial Education II

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(ii) Religious Education

Compulsory unit - Studies in Religion 417 Religion, Society and Education

Full

At least two (2) units from -
 Studies in Religion 414 Hinduism and Buddhism
 Studies in Religion 415 Judaism and Islam
 Studies in Religion 411 Old Testament
 Studies in Religion 412 New Testament: The Gospels
 Catholic Studies 412 Revelation and Christology
 Catholic Studies 422 Sacraments and Christian Worship

AND

At least two (2) units from
 Religious Education 411 Curriculum Development in Religious Education
 OR
 Catholic Education 421 Curriculum Design in Religious Education
 Educational Psychology 443 Human Relationship and Values Education

A further unit from any of the above listed units.

(iii) Multicultural Education

A choice of between 2 to 4 units from each of sections (A) and (B) identified below to make up a total of 6 units in this concentration.

Full

(A)

Education 458 Aboriginal and Migrant Education
 Intercultural Education 590 Comparative Ethnic Education
 Migrant Education 591 Developments in Migrant Education
 Aboriginal Education 591 Developments in Aboriginal Education
 Language Education 593 Teaching English as a Second Language

(B)

Aboriginal Studies 591 Traditional Aboriginal Society
 Aboriginal Studies 593 Aborigines and Social Change
 Migrant Studies 591 Australian Immigration: Policies and Perspectives
 Migrant Studies 593 Migrant Communities
 Intercultural Studies 590 Cross Cultural Perspectives
 Intercultural Studies 591 Cross Cultural Communication
 Linguistics 590 Intercultural Linguistics
 Linguistics 591 Australian Aboriginal Linguistics
 Aboriginal Studies 480 Remote Aboriginal Communities
 Aboriginal Studies 482 Aborigines of the South West of W.A.
 Aboriginal Studies 484 Aboriginal History
 Aboriginal Studies 486 Aboriginal Languages
 Migrant Studies 480 Sociocultural Background of Migrants
 Migrant Studies 482 Migrant Children and their Families
 Migrant Studies 484 Language Issues
 Migrant Studies 486 Identity in a Multi-cultural Society

(iv) Contextual Studies

Education 4626 Issues in Australian Education
 Education 4628 Sociology of the School
 Education 440 Philosophy of Education II
 Education 442 Studies in Education Policy and Decision Making II
 Education 443 Studies in Education Policy and Decision Making III
 Education 446 Sociological Perspectives of Educational Change

Full

CURRICULUM/GENERAL STUDIES STRAND (6 units)

Students must undertake 6 units in a curriculum/general studies concentration in the pattern of between 2 and 4 units from each area to meet the requisite total number of units

(i) Social Science Education

Full

Curriculum

Curriculum Studies 484 Social Science
 Education 458 Aboriginal and Migrant Education
 Aboriginal Education 591 Developments in Aboriginal Education
 Migrant Education 591 Developments in Migrant Education
 Intercultural Education 590 Comparative Ethnic Education

General

Social Science 470 History of Western Australia
 Social Science 472 Environmental Policy
 Social Science 475 The Australian City
 History 3500 Contemporary History
 History 3600 Contemporary History
 Anthropology 2100 Introductory Anthropology
 Aboriginal Studies 591 Traditional Aboriginal Society
 Aboriginal Studies 593 Aborigines and Social Change
 Migrant Studies 591 Australian Immigration: Policies and Perspectives
 Migrant Studies 593 Migrant Communities
 Intercultural Studies 590 Cross Cultural Perspectives
 Intercultural Studies 591 Cross Cultural Communication
 Aboriginal Studies 480 Remote Aboriginal Communities
 Aboriginal Studies 484 Aboriginal History
 Aboriginal Studies 482 Aborigines of the South West of W.A.
 Migrant Studies 480 Sociocultural Background of Migrants
 Migrant Studies 486 Identity in a Multi-cultural Society
 Migrant Studies 482 Migrant Children and their Families

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(ii) Physical and Health Education

Full

Curriculum

Curriculum Studies 486 Physical and Health Education
 Physical Education 492 Health
 Physical Education 562 Curriculum Studies Prac. I
 Physical Education 567 Curriculum Studies Prac. II
 Physical Education 568 Health and the Primary School Child
 Physical and Health Education 4100 Community Recreation
 Physical and Health Education 4155 Current Issues in Physical and Health Education

General

Physical Education 560 Applied Kinesiology *
 Physical Education 566 Sociology of Sport and Leisure
 Physical Education 564 Paediatric Work Physiology
 Physical Education 482 Acquisition of Skills *
 Physical and Health Education 4114 Environmental Health
 Physical Health Education 4402 Health Care
 Systems in Australia
 Physical Education 572 Sports Medicine

* These units are mutually exclusive

(iii) Science Education

Attendance Requirements

Curriculum

Curriculum Studies 481 Science
 (Further units will become available in 1985)

General

Environmental Science 480 Ecology
 Environmental Science 482 Pollution
 Human Biology 2240
 (Further units will become available in 1985)

(iv) Art

Full

Curriculum

Art 4155 Current Issues in Art Education *
 Art 4156 Research in Art Education *
 Art 482 Approaches to Children's Art

General

Art 480 Core Ideas in 19th and 20th Century Art
 Art 486 A Perspective on Australian Art
 Education 464 Education, Culture and Art
 Art 1211 Art History
 Art 4701 Further Studies in an Art Field #
 Craft 4701 Further Studies in a Craft Field #

To undertake these units students must have studied Art at 3rd Year level. *
 To undertake these units students must have studied Art or Craft at the 3rd Year level. #

(v) Mathematics Education

Full

Curriculum

Mathematics Education 382 History of Mathematics
 Curriculum Studies 483 Mathematics

General

Mathematics 480 Geometry
 Mathematics 484 Applied Algebra
 Mathematics 4101 Transformational Geometry *
 Mathematics 4104 Operational Research *
 Mathematics 4280 Numerical Analysis *

These subjects are restricted to students who have a background of teaching at the secondary level. *

(vi) Communications Education

Full

Reading

Curriculum

Reading Education 445 Teaching Reading as a Language Process I
 Reading Education 447 Remediation in Reading
 Reading Education 554 Teaching Reading as a Language Process Prac. II
 Reading Education 555 Reading Workshop and Core Studies
 Reading Education 556 Teaching Reading as a Language Process Prac. III
 Reading Education 557 Reading - Language Investigation: Action Research

General

Reading Education 444 Reading and Learning to Read
 Reading Education 446 The Study and Evaluation of Reading - Language Performance
 Reading Education 448 An Analysis and Evaluation of Current Reading Materials
 Reading Education 449 Language, Thought and Reading

English (Secondary)

Curriculum

English 4155 Current Issues in English Teaching
 English 4301 Advanced Language and Learning
 English 4156 Research in English Teaching
 English 4401 Advanced Language and Learning

General

English 4700 Research and Thesis in Literature
 English 4800 Research and Thesis in Literature
 English 4708 Advanced Writing
 English 4808 Advanced Writing

Teaching English as a Second Language Curriculum

Language Education 587 Media in Language Teaching
 Language Education 591 Language in Learning

Language Education 585 Principles of Second Language Teaching
 Language Education 586 Advanced Methodology in TESL

Language Education 593 Teaching English as a Second Language

General

Language 480 Our Changing Language

OR

Language Studies 580 English and the Study of Language
 Language 482 Language in Society

OR

Language Studies 585 Language Variation and Australian Society

Language Studies 581 Language Study and Classroom Applications
 Language Studies 583 Language Acquisition and Development

Language 498 Dialects and English

Modern/Community Language Teaching Curriculum

Language Education 587 Media in Language Teaching
 Language Education 588 Precedents and Policies in Modern Language Education

Language Education 585 Principles of Second Language Teaching
 Language Education 589 Modern/Community Languages in a Primary Curriculum

Language Education 590 Advanced Methodology in Modern Languages

General

As for TESL stream above.

Language Arts Education

Curriculum

Curriculum Studies 489 Curriculum Studies in English
 Language Education 580 Precedents and Policies in Language Arts Education

Language Education 584 Literacy and Oracy

Language Education 581 Advanced Methodology in Language Arts

Language Education 591 Language in Learning

Early Childhood Education 440 Listening and Talking in the Junior Primary Classroom

Early Childhood Education 441 Reading and Writing in the Junior Primary Classroom

General

Language Studies 582 Language Study and Classroom Applications

Literature 480 European Drama 1870-1970

Literature 482 19th and 20th Century American Fiction

Literature 483 Short Fiction

Literature 484 Children and Fiction

OR

Language Studies 584 Children's Literature

Language 480 Our Changing Language

OR

Language Studies 580 English and the Study of Language
 Language 482 Language in Society

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OR
Language Studies 585 Language Variation and Australian Society
Language Studies 581 Language Study and Classroom Application
Language Studies 583 Language Acquisition and Development
Language 498 Dialects and English

AVAILABILITY

ENGINEERING

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science (ENGINEERING) . Part

Bachelor of Applied Science (SURVEYING) Part

Calculus of Observations 281

Calculus of Observations 282

Cartography 181

Cartography 182

Computation 181

Computation 182

Computation 281

Computation 282

English 150

Geography 111

Geography 112

Mathematics 101

Mathematics 102

Surveying 181

Surveying 182

TECHNICAL EXTENSION SERVICE

Certificate in Automotive Engineering Part

Automotive Science

Automotive Power 1

Automotive Traction

Power Hydraulics 1

Automotive Diesel 1

Work Study 1

Diploma in Cartography
Certificate in Cartography

Part

- Photogrammetry 1 (new)
- Cartographic Drafting
- Communication 1
- Computer Techniques 1
- Mathematics 1F
- Principles of Cartography
- Surveying 1
- Survey Computations 1
- Geological Mapping
- Survey Computations 2
- Geological Mapping
- Survey Computations 2
- Photogrammetry 2 (new)
- Laws and Regulations (Surveying)
- Computer Techniques

Diploma in Civil Engineering

Part

- Drawing 1 Engineering
- Mathematics 1 Engineering
- Communication 1
- Mathematics 2 Engineering
- Materials 1
- Hydraulics 1
- Soil Mechanics
- Design (steel)
- Roads and Railways
- Water supply and Waste Disposal
- Bridges

Diploma in Engineering Surveying

Part

- Mathematics 1F
- Qualifying Mathematics
- Communication 1
- Principles of Cartography
- Calculating Processes
- Mathematics 2F
- Mathematics 1D
- Survey Computation 1
- Mathematics 2D (Surveying)
- Survey Computations 2D
- Surveying 2D
- Land Assessment
- Surveying 3D
- Photogrammetry 1 (old)

Diploma in Mine Surveying

Part

- Qualifying Mathematics D
- Mathematics 1F
- Communication 1
- Principles of Cartography
- Computer Techniques 1
- Mathematics 2F
- Mathematics 1D
- Survey Computations 1
- Surveying 1
- Mathematics 2D (Surveying)
- Survey Computations 2

Survey Law (One Term)
 Surveying 2D
 Mining 1
 Photogrammetry 1 (old)
 Surveying 3D
 Mining 2

Diploma in Surface Mining

Part

Mathematics 1F
 Qualifying Mathematics D
 Communication 1
 Calculating Processes
 Mathematics 2F
 Mathematics 1D
 Drawing 1C (Engineering)
 Mineral Dressing
 Quarrying 1
 Mechanical Equipment
 Quarrying 2
 Surveying 1
 Survey Computations 1
 Surface Mining 1
 Surface Mining 2
 Supervision D

Diploma in Mechanical Engineering (Part-time)

Part

Drawing 1 Engineering
 Mathematics 1 Engineering
 Workshop 1M
 Communication 1
 Drawing 2 Engineering
 Mathematics 2 Engineering
 Materials 1
 Mechanical Equipment
 Drawing 3 Mechanical
 Mechanics 2
 Hydraulics 1
 Thermodynamics 1
 Electrical Technology
 Machine Design 1
 Machine Design 2
 Fluid Mechanics

Diploma and Certificate in Surveying (Part-time)

Part

Qualifying Mathematics
 Mathematics 1F
 Surveying 1
 Principles of Cartography
 Communication 1
 Survey Computations 1
 Computer Techniques 1
 Surveying 2
 Photogrammetry 1(A)
 Engineering Geology
 Survey Computations 2
 Mining 1
 Applied Survey Maths
 Photogrammetry 1A
 Engineering Geology

Hydrology A
 Hydrology B
 Mining 1
 Surveying Computations 2
 Mining 2

Certificate in Mining (Part-time) Part
 Communication 1
 Mathematics 1F
 Physics 1
 Chemistry 1
 Mining 1
 Mechanical Equipment
 Mining 2
 Quarrying 2

Certificate in Mechanical Engineering Drafting ----

Certificate in Civil Engineering Drafting ----

Certificate in Road Engineering Drafting Part
 Mathematics 1F
 Qualifying Mathematics D
 Communication 1
 Drawing 1C (Engineering)
 Mathematics 2F
 Mathematics 1D
 Hydraulics 1
 Principles of Cartography
 Surveying 1
 Drawing 2C (Civil)
 Road Construction
 Survey Computations 1

Certificate in Civil Engineering Part
 Drawing 1 Engineering
 Mathematics 1 Engineering
 Communication 1
 Mathematics 2 Engineering
 Materials 1
 Hydraulics 1

Certificate in Mechanical Engineering Part
 Drawing 1 Engineering
 Mathematics 1 Engineering
 Communication 1
 Drawing 2 Engineering
 Mathematics 2 Engineering
 Materials 1
 Mechanical Equipment
 Drawing 3 Mechanical
 Mechanics 2
 Hydraulics 1

Diploma/Certificate in Hospital Engineering Part
 Communication 1
 Mathematics (Marine)
 Mathematics 1F
 Drawing 1 (Marine)
 Applied Mechanics 1
 Heat Engines 1

Electrotechnology 1	
Building Construction 1B	
Refrigeration and Air Conditioning Plant 1A	
Applied Mechanics 2	
Heat Engines 2	
Certificate in Industrial Electronics	Part
Electrical 1C	
Electronics 1C	
Electronics 2C	
Communication 1	
Electronic Systems 1	
Certificate in Mineral Processing	Part
Communication 1	
Mathematics 1F	
Physics 1	
Chemistry 1	
Computer Techniques 1	
Certificate in Seamanship (Fishing)	----
Certificate in Town Planning Drafting	----
Certificate in Media Electronics	Part
Electrical 1C	
Electronics 1C	
Communication 1	
Certificate in Electrical Draftmanship	Part
Communication 1	
Electrical Engineering 1D	
Electronics 1D	
Electrical Design 1	
Certificate in Electrical Engineering	Part
Communications 1	
Electrical Engineering 1D	
Electronics 1D	
Electrical Design 1	
Certificate in Electronic Engineering	Part
Communication 1	
Electrical Engineering 1D	
Certificate in Industrial Electronics	Part
Electrical 1C	
Electronics 1C	
Electronics 2C	
Communication 1	
Electronic Systems 1	
Certificate in Automotive Engineering	Part
Automotive Science	
Automotive Power 1	
Automotive Traction	
Power Hydraulics 1	
Automotive Diesel 1	
Work Study 1	

	<u>AVAILABILITY</u>
Certificate in Plumbing (Under Review) Communication 1 Builders Bookkeeping and Costing Building Construction 1B	Part
Certificate in Sheet Metal Work (Under Review) Drawing 1C (Engineering) Communication 1 Work Study 1	Part
Certificate in Refrigeration and Air Conditioning (Under Review) Supervision (Elements of) Business Practice Communication 1	Part

HEALTH

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science Human Biology 184 Statistics 121	Part
Diploma of Applied Science Human Biology 181 Human Biology 182	Part
Bachelor of Applied Science (Clinical Nursing Stream) (Nursing Administration Stream) (Nursing Education Stream) (Primary Health Care Stream) Biological Science 261 Biological Science 262 Education 330 Analysis of Teaching Education 420 Strategies of Teaching Human Biology 181 Human Biology 182 Management Principles 151 Management Processes 152 Nursing Studies 261 Nursing Studies 262 Organisations 301	Part

Bachelor of Applied Science

Full

Clinical Medicine 241
 Human Biology 183
 Human Biology 184
 Kinesiology 241
 Neuroscience 242
 Occupational Health 242
 Occupational Health & Management 342
 Occupational Therapy 241
 Occupational Therapy 242
 Occupational Therapy 244
 Occupational Therapy 245
 Occupational Therapy 341
 Occupational Therapy 343
 Occupational Therapy 344
 Occupational Therapy 347
 Occupational Therapy 349
 Occupational Therapy 441

Graduate Diploma in Medical Radiography

Part

Administration (Public) 303
 Administrative Leadership 505
 Advanced Techniques 500
 Education 353 Instructional Technology
 Finance 509
 Industrial Relations 501
 Industrial Relations 502
 Organisations 509
 Pathology 500
 Personnel 501
 Personnel 502
 Radiography 500
 Radiologic Physics 500

Graduate Diploma in Occupational Safety and Health

Part

Epidemiology 581
 Health & Safety Law & Management 582
 Issues in Health & Safety 583
 Occupational Health & Safety 581
 Occupational Safety & Health Project 590
 Occupational Safety & Health Project 591
 Occupational Safety & Health Specialisation 591
 Occupational Safety & Health Specialisation 592
 Occupational Safety & Health Specialisation 593
 Occupational Safety & Health Specialisation 594
 Safety Technology 582
 Toxicological Principles 582

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ASSOCIATE DIPLOMA IN HEALTH EDUCATION

Full

Foundation Studies (5 units)

Human Development	111	Child Development
Human Development	121	Life Span Psychology - Adolescence to Old Age
Sociology	111	Society and People
Sociology	222	Contemporary Australian Society
Sociology	223	Sociology of Health

Professional Studies (6 units)

Health Education	111	Introduction to Health Education
Health Education	121	Current Issues in Health Education
Health Education	222	Mental Health
Health Education	231	Community Organisation and Community Development
Health Studies	111	Health Education within the Health Care System
Health Studies	221	Epidemiology and Biostatistics

Communication and Teaching Studies (3 units)

Communication	111	Communication in Health Education
Communication	221	Mass Communication Theory and Practice
Teaching Workshop	211	Teaching Strategies

Field Studies and Practice (2 units)

Health Education	241	Field Study Project
Health Education	242	Health Education Practice

Diploma in Environmental Health

Part

Sociology and Economics
 Building Construction 1B
 Community health
 Communication 1
 Environmental Health 1
 Principles of Public Health
 Building Construction 2B
 Environmental Health 2
 Environmental Science
 Meat Inspection 1
 Meat Inspection 2

LAW

TECHNICAL EXTENSION SERVICE

Certificate in Industrial Advocacy	Part
Communication 1	
Industrial Law 1	
Statistics	
Economics 1	
Financial Management 1	
Industrial Relations	

Diploma and Certificate in Legal Studies	Part
Communication 1	
Legal Principles	
Law of Contract	
Practice and Procedure 1	
Law of Torts 1	
Administrative Law 1	
Taxation Law and Practice A	
Taxation Law and Practice B	
Industrial Law 1	

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SCIENCE (PURE AND APPLIED)

MURDOCH UNIVERSITY

AVAILABILITY

Environmental Science (B.Sc.)	Attendance requirements
Population & World Resources (B.A./B.Sc.)	Full
Diploma in Community Science (Dip. Comm. Sc.)	Full
Diploma in Environmental Science (Dip. Env. Sc.)	Attendance requirements

ENVIRONMENTAL SCIENCE

N211	Waste Treatment & Recycling	
N213	Climate, Weather & Man	
N214	Mapping & Cartography	
N217	Air Pollution Meteorology	
N218	Environmental Biology	
N222	Pollutants & Toxicology	
N279	Community Ecology] not available
N281	Population Ecology] after 1985
N2..	Ecology	
N2..	Ecological Principles	

POPULATION & WORLD RESOURCES

N212	Population, Resources & Environment
N225	Population & World Resources Project
N404	Community Science Project

OTHER COURSES

A203	Science Technology & Society
A208	Engineering Mathematics

Computer Science (1985) (B.Sc.)	Development from 1985
Mathematics (including Honours) (B.A./B.Sc.)	Full
Mineral Science (Extractive Metallurgy) (B.Sc.)	Full
Physics (B.Sc.)	Full
Diploma in Applicable Mathematics (Dip. App. Maths)	Full
Diploma in Computer Science (1985) (Dip.Comp.Sc.)	Full
	Development from 1985

SCHOOL OF MATHEMATICAL & PHYSICAL SCIENCES

M215	Applied Statistics
M261	Mathematical Methods
M263	Complex Variable
M268	Statistical Analysis
M272	Operations Research Techniques
M273	Vector Spaces
M276	Matrix & Computational Methods

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- M362 General Analysis
- M365 Algebraic Structures
- M367 Numerical Analysis
- M369 Differential Equations

PHYSICS

- M205 Measurement Science
- M220 Waves
- M221 Electronics
- M222 Interactions & Fields
- M311 Quantum Theory
- M312 Solid & Surface Physics

COMPUTER SCIENCE (and Diploma in Computer Studies)

- M214 Computer Science
- M313 Systems Programming
- M4.. Computer Studies Project

MINERAL SCIENCE

- M201 Thermodynamics
- M202 Properties of Matter
- M234 Resources Recycling
- M237 Chemistry IIA
- M240 Analytical Chemistry
- M256 Mineralogy
- M355 Processes of Extractive
Metallurgy
- M357 Mineral Chemistry (Hydrometallurgy)
- M358 Pyrometallurgical Processes
- M254 Mineral & Energy Resources

WESTERN AUSTRALIAN INSTITUTE OF TECHNOLOGY

Bachelor of Applied Science (BIOLOGY)

Part

- Animal Biology 201
- Animal Biology 202
- Biology 101
- Biology 102
- Plant Biology 201
- Plant Biology 202
- Statistics 211

Bachelor of Applied Science (MULTIDISCIPLINARY SCIENCE)

Part

Bachelor of Applied Science
 (Biology)
 (Chemistry)
 (Mathematics)
 (Multidisciplinary Science)
 (Physics)

Part

- Accounting 151
- Accounting 152
- Biology 101
- Biology 102
- Chemistry 101
- Economics (Micro) 151
- Economics (Macro) 152
- English 150
- Geography 111
- Geography 112
- Human Biology 181
- Human Biology 182
- Mathematical Statistics 101
- Mathematical Statistics 102
- Mathematics 101
- Mathematics 102
- Physics 101
- Physics 102
- Social Science 111
- Social Science 112
- Statistics 121

Bachelor of Applied Science (HOME ECONOMICS)

Part

- Consumer Law 212
- Home & Consumer Studies 212
- Introductory Chemistry 151
- Introductory Chemistry 152
- Introductory Nutrition 151
- Social Nutrition 251
- Psychology 113
- Psychology 114
- Psychology 118

Bachelor of Applied Science (NUTRITION & FOOD SCIENCE)

Part

- Human Biology 181
- Statistics 121

Bachelor of Applied Science (MATHEMATICS)

Part

- English 150
- Mathematical Statistics 101
- Mathematical Statistics 102
- Mathematics 101
- Mathematics 102
- Mathematics 202
- Mathematics 301

Bachelor of applied Science (CHEMISTRY)

Part

- Chemistry 101
- Chemistry 102
- Science & Society 101
- Science & Society 102
- Statistics 121

AVAILABILITY**Bachelor of Applied Science (PHYSICS)**

Chemistry 101
 Chemistry 102
 English 150
 Mathematics 101
 Mathematics 101
 Mathematics 201
 Physics 101
 Physics 102
 Weather Forecasting 101

Part

TECHNICAL EXTENSION SERVICE**Diploma in Mathematics**

Mathematics 1F
 Qualifying Mathematics D
 Mathematics 1D
 Mathematics 2F
 Mathematics 2S
 Mathematics 3S
 Applied Mathematics 2S

Part

Certificate in Laboratory Practices (Biological Sciences)

Part

Certificate in Laboratory Practices (Physical Sciences)

Part

Biology 1
 Chemistry 1
 Laboratory Procedures
 Physics 1
 Laboratory Workshop
 Laboratory Techniques 2B
 Laboratory Techniques 2A
 Chemistry

OTHER**MURDOCH UNIVERSITY**

Bachelor of Applied Science (Biological Sciences) (B.A./B.Sc.)

Full

Part I Courses (All Courses available 1984 & 1985)

Prerequisite for Programmes available externally

A103	Energy & Life Systems) (Starting students) Trunk Courses must take one of) these 3 courses)
A105	Structure Thought & Reality	
A106	Australian Studies	
M113	Conceptual & Mathematical Bases of Physical Science (not available after 1985)	(General Studies)
M121	Ptolemy to Newton (not available after 1984)	(General Studies)
M160	Introduction to Mathematics	(Environmental Science) (Mathematics, Chemistry, Mineral Science, Physics) (Mathematics, Computing (1985), Physics) (Physics, Chemistry, Env. Science) (Primary Teaching) (Mineral Science) (Mineral Science) (Population & World Resources) (Mathematics, Population & World Resources) (Chemistry, Mineral Science)
M161	Principles of Mathematics	
M162	Principles of Computer Programming	
M122	Particles in Motion	
M162	Cultural Mathematics	
M131	Extractive Metallurgy I	
M130	Geological Processes	
M180	Introduction to Statistics	
M183	Statistical Methods	
M141	Principles of Chemistry	
H144	Foundations of Southeast Asian Society	(Asian Studies (1985))
H134	Language & Literature	
H165	Reading Italian IA	
H102	Foundations of Communication Studies	
H140	Introduction to Contemporary China	(Asian Studies (1985))
H121	Introduction to Literary Studies	(Comparative Literature)
H103	Introduction to the Study of Language	(Primary Teaching)
H161	Malay/Indonesian I	(Asian Studies)
H170	Reading Italian IB	
S141	Introduction to Psychology	(Primary Teaching, Secondary Teaching, Education Studies)
S161	Introduction to Economics	(Economics, Population & World Resources) (History) (S.A.P.T.)
S181	Introduction to History	
S131	Introduction to Social & Political Theory	(S.A.P.T.)
S162	Australian Economic Institutions	
S101	Foundations of Social Inquiry	(S.A.P.T.)
S133	Introduction to Australian Political Institutions	(S.A.P.T.)
S106	Introduction to Philosophy	(S.A.P.T.)
S182	Turning Points in History	(History)
E160	Multi-Arts & the Primary Curriculum	(Primary Teaching)
N102	Introduction to Environmental Science	(Environmental Science, Population & World Resources, General Studies)
W104	Women in Society	(S.A.P.T., Women's Studies)
TE101	Introduction to Teaching - not offered externally but available as 4-week intensive course	(Primary Teaching; Secondary Teaching; Dip. Ed.)

TECHNICAL EXTENSION SERVICE

AVAILABILITY

Certificate in Building Foremanship

Building Construction 1B
Quantities 1B
Building Construction 2B
Building Construction Drawing 2
Building Organisation 1
Supervision (Elements of)

Full

Certificate in Furniture Production

Communication 1
Supervision (Elements of
Builders' Bookkeeping and Costing
Work Study 1

Part