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University of
Wollongong

*Summer
Session
1989/90*



GENERAL INFORMATION

This booklet provides details of the courses to be offered by the University of Wollongong for its Summer Session program in 1989/90. If after reading the booklet you have any further enquiries, please do not hesitate to come to the Student Enquiry Office or phone the University on (042) 270927.

The booklet forms a supplement to the University Calendar and further details about the credit courses should be obtained from the Calendar.

SUMMER SESSION DATES - 1989/90

11/12/89 - 22/12/89	(2 weeks lectures)
25/12/89 - 5/1/90	(2 weeks recess)
8/1/90 - 9/2/90	(5 weeks lectures)
12/2/90 - 16/2/90	(1 week examinations)

WHAT SUBJECTS ARE AVAILABLE

There will be two types of subjects on offer: credit and non-credit.

Credit subjects will normally be undertaken by those who are already enrolled at the University of Wollongong or at another tertiary institution. On successful completion of these subjects, students will be able to include them in the program for their degrees or diplomas **only if the subject is included in the appropriate schedule for the degrees or diplomas - refer University Calendar.** These subjects will have normal assessment procedures (i.e. essays, seminars, examinations) and results will be given at the conclusion of these subjects.

If places are available in these subjects, people who are not enrolled at the University or at another tertiary institution may also be able to enrol in them.

Non-Credit subjects include bridging subjects and a general interest subject. There will be no assessment for these subjects.

WHO CAN ENROL?

Generally, all the subjects are open to any member of the community, whether qualified for University entrance or not, subject only to any pre-requisites being met for particular subjects. Priority for the credit subjects will be given to those already enrolled at a tertiary institution who wish to count subjects towards their degrees or diplomas.

COSTS

- (i) All participants in the Summer Session will be required to pay a fee of \$13.00 for Associate Membership of the University Union. This fee will allow participants complete access to the Union's facilities including cafeteria, bistro, bar, squash courts and other facilities. *Students who were enrolled at the University of Wollongong in 1989 will be exempted from this fee.*
- (ii) Fees are payable for credit and non-credit subjects. Details of the amounts payable for these subjects are listed at the end of the descriptions for each subject. At the time of printing, all fees listed in this booklet for credit subjects were under review and will be adjusted to the equivalent 1990 HECS charges.
- (iii) Fee paying international students are required to pay additional fees for subjects undertaken during the Summer Session. The fees will be based on a pro-rata charge for each degree. Further information may be obtained from the International Office.
- (iv) Students who were enrolled during 1989 in award courses will incur a HECS liability in accordance with the number of credit points undertaken and 1990 HECS charges. At the time of printing, 1990 HECS charges were under review by the Department of Employment, Education & Training.
- v) Fees cannot be refunded after the beginning of the Summer Session (i.e. after 11 December 1989).

HIGHER EDUCATION CONTRIBUTION SCHEME (HECS)

The HECS liability will be determined by the number of credit points undertaken. **Students should note that the HECS census date for Summer Session is 11 December 1989, which is the FIRST DAY of SUMMER SESSION.**

Payment of Summer Session HECS

Payment Option Forms

Students are not to complete another HECS payment option form for Summer Session unless they wish to change their method of payment (e.g. they wish to pay HECS "upfront" for Summer Session where they previously

chose to defer payment of session 1 and 2 HECS and pay through the taxation system later). The last date to change the method of payment for Summer Session is **Friday, 8 December 1989**.

Payment of Upfront HECS

Students who have elected to pay HECS upfront must pay the Cashier, Administration Building, by Friday 8 December 1989. The current HECS amount will be noted on the Enrolment Record.

HOW TO ENROL

An enrolment form is included in this booklet. You are not required to send any money with this form; you will be advised later of the amount you will be required to pay for the subject(s) you have selected. Priority will be given to those who have applied by the closing date 31 October 1989. Late applications will be considered if places are available.

WHERE TO STAY

University administered accommodation is available. Please complete Section 3 on the enrolment form if you will require accommodation. Accommodation is also available at the many hotels, motels and camping areas in the Wollongong area.

CHILD CARE

Kids' Uni will be available during the Summer Session. If you need to use this childminding service while you attend the Summer Session courses, please indicate in the appropriate place on the Application Form. Fees are charged for this service on an hourly basis. Please phone the Centre (042) 270072 for further information.

PLEASE NOTE

At the time of preparation of this booklet it is the intention of the University that all the subjects listed will be available in the 1989/90 Summer Session. However, the University reserved the right to withdraw any of the subjects if the number of applicants seeking to undertake particular subjects is not sufficient or for any other reason.

NON-CREDIT SUBJECTS BRIDGING COURSES

BRIDGING COURSE IN BIOLOGY

For high school leavers and others thinking of taking Biology at University, this Course will cover fundamental aspects of biological science which students wishing to take Biology should know. All potential students who have not taken HSC Biology are encouraged to attend.

Monday 5 February to Friday 16 February, 1990 1.30pm - 4.30pm
Fee: \$75

BRIDGING COURSE IN CHEMISTRY

For high school leavers and others thinking of taking Chemistry at University this course will cover fundamental aspects of chemistry normally dealt with in high school Science.

Monday to Friday 9.30am - 12.30pm for 2 weeks from 5 February 1990.
Fee: \$75

VECTORS

Vectors are graphic means of representing situations and problems in many areas of science and engineering. Because of the novel nature of vector algebra, first year students usually have difficulty in making use of vector methods as required in their first year courses.

In this series of lectures and tutorials, participants will acquire facility in solving problems of the kind appearing in the prescribed first year textbooks for engineering and physics.

Mondays to Fridays 1.30pm to 4.30pm for 2 weeks from 5 February, 1990.
Fee: \$75

CONCEPTS OF PHYSICS

This course is designed for students who are thinking of taking physics for the first time, for those who have difficulty getting a clear overview of the subject, and for those who lack a feel for how to use the information in practical applications.

It will present the basic concepts and vocabulary in a relaxed and enjoyable manner designed to overcome the "fear of fisiks" commonly experienced by students with little previous exposure or previous lack of success in the subject.

Mondays to Fridays 1.30pm - 4.30pm for 2 weeks from 11 December 1990.
Fee: \$75

instruction in basic editing techniques and use of post production facilities; undertake a small group of production of a short film or videotape.

Note: Students will be expected to undertake practical production work outside normal lecture times if necessary.

Tuesdays, Thursdays 6.30pm - 9.30pm.

Fee: \$225

AAPW203/303 PROSE FICTION 2/3

Credit Points: 6

The course aims to provide students with experience in the techniques and approaches to the writing of prose fiction. It will do this through a series of exercises and explorations in techniques, through a study of some contemporary prose fiction writers, and through workshopping of students' work.

Topics include:

- i Preparing to write - skill and inspiration;
- ii The writing process;
- iii Revision;
- iv Characterisation;
- vi Involving your reader;
- vii Marketing your work.

These subjects will be studied in conjunction with an examination of the short fiction of some of the following contemporary Australian and overseas writers.

Fee: \$225

ENGL231 DRAMA & THEATRE B -

AUSTRALIAN DRAMA AND THEATRE

Credit Points: 6

Pre-requisite: 12 credit points at 100 level English.

By reference to representative texts, as well as by practical exercises, this subject involves the investigation of:

- the development of an Australian drama from 1788 to today;
- the relationship between Australian drama and the Australian theatre enterprise;
- the role of theatre in society.

Tuesdays & Thursdays 9.30am - 11.30am

Fee: \$225.

ENGL296 AUSTRALIAN POPULAR BALLADS**Credit Points: 6**

Pre-requisite: 12 credit points at 100 level English.

A study of nineteenth century Australian popular ballad and verse in the light of contemporary Cultural Studies theory. This subject examines ballads produced by convicts, rural workers, goldfield entertainers and bush balladists, concentrating on the relationship between the texts and their original context, but also looking at the way they have been appropriate to nationalist myth-making, particularly in the 1950s.

Tuesdays & Thursdays 10.30am - 12.30pm, 1.30pm - 2.30pm

Fee: \$225.

ENGL297 LITERARY PERSPECTIVES OF AUSTRALIA IN THE PACIFIC**Credit Points: 6**

Pre-requisite: 12 credit points at 100 level English.

A survey of some contemporary Australian prose and drama which deals with issues of regional identity.

Tuesdays & Thursdays 10.30am - 12.30pm

Fee: \$225.

ENGL396 MODERN IRISH WRITERS**Credit Points: 6**

Pre-requisite: 12 credit points at 100 level English.

In this subject, students will examine five major Irish writers whose work has helped to shape our notion of modern literature. The works of Yeats, Synge, O'Casey, Joyce and Beckett, although born of Ireland, have lived and continued to live in the wider world. In its coverage of a broad range of literary styles and subject matter, the subject offers an overview of some of the most important literary developments of the twentieth century.

Mondays & Wednesdays, 10.30am - 12.30pm, 1.30pm - 2.30pm

Fee: \$225

**ENGL397 MULTICULTURAL WOMEN'S
WRITING**

Credit Points: 6

Pre-requisite: 12 credit points at 100 level English.

This subject is a study of contemporary multicultural women's writing in Australia and will be conducted as a series of seminars. It will concentrate on poetry and short prose written in English by women from a variety of ethnic backgrounds, eg Greek, Italian, Polish, Indonesian. During the subject we will study the textual strategies used by the writers and relate these to the socio-historical context of a multicultural Australia.

Tuesdays & Thursdays 9.30am - 11.30am

Fee: \$225.

GENE114 COMPUTERS AND THE ART

Credit Points: 6

Pre-requisite: At least 24 credit points of study.

In this subject students will study ways of incorporating computer based applications into studies in the Arts Faculty. Students will learn the practical skills of wordprocessing and data base construction in addition to being introduced to advanced research and editing skills in which they will learn to edit their own work and the work of others and explore the computer's potential for research development.

Tuesdays & Wednesdays 4.30pm - 6.30pm

Fee: \$225

**HIST232 THE OTHER SUPERPOWER
- SOVIET HISTORY, 1917 TO THE PRESENT**

Credit Points: 8

Pre-requisite: Either HIST104, HIST105 or HIST106

- a) The revolutions of 1917;
- b) the New Economic Policy;
- c) industrialisation;
- d) the setting-up and functioning of the political system in the Stalin era;
- e) the emergence of the Soviet Union as a world power and the Cold War;
- f) the dismantling of the Stalinist political system under Krushchev;
- g) the consolidation of the Soviet 'welfare state' in the post-Stalin era; and

- h) the problems that this heritage poses for the present

Soviet leadership.

Mondays & Wednesdays 9.30am - 12.30pm or Tuesdays & Thursdays 9.30am - 12.30pm

Fee: \$300

**LANG173 INTRODUCTORY SPANISH
- LEVEL 1**

Credit Points: 3

This is a seven week course for beginners or near-beginners and is designed to provide an introduction to the Spanish language. While the emphasis is on the communicative function, a grammatical basis will also be given. By the end of the course students should be able to communicate in Spanish in a number of situations and to read and write basic Spanish.

Tuesdays & Thursdays 9.30am - 12.30pm.

Fee: \$113

**LANG183 INTRODUCTORY SPANISH
- LEVEL 2**

Credit Points: 3

This course is intended for students who have completed LANG173 Introductory Spanish Level 1 or have a similar competence in Spanish. The course will continue the development of communicative skills in Spanish with emphasis on competence in understanding, speaking, reading and writing. By the end of the course students should be able to demonstrate a good grasp of the basic structures of Spanish.

Tuesdays & Thursdays 1.30pm to 4.30pm.

Fee: \$113

**LANG175 INTRODUCTORY GERMAN -
LEVEL 1**

Credit Points: 3

A course for beginners. No prior knowledge of the language is required. Students who have previously studied German or have a German-speaking background are ineligible.

This is a fast-moving course, using audio-visual and audio-lingual techniques. The emphasis is on the practical aspects of language learning and use in everyday situations. There is also an introduction to the reading of simple texts on subjects of topical interest. The

development of writing skills is a minor part of the course. Intending students should be aware that a high level of personal participation is expected.

Mondays & Wednesdays (before Christmas) 9.00am - 1.30pm.

Mondays, Wednesdays & Fridays (after Christmas) 9.00am - 12.30pm.

Fee: \$113

LANG185 INTRODUCTORY GERMAN - LEVEL 2

Credit Points: 3

A follow-on course from Elementary German. Intending students should be able to demonstrate a good grounding in speaking and listening skills in everyday situations. Suitable for those who have studied German Z at HSC or similar courses.

This course aims to consolidate skills already acquired and to broaden the range of themes and topics encountered in the spoken language. In addition a heavier emphasis is placed on reading original texts by both past and contemporary authors. As well, a development of writing skills for practical purposes will be expected.

Mondays & Wednesdays (before Christmas) 2.00pm - 5.30pm.

Mondays, Wednesdays & Fridays (after Christmas) 2.00pm - 5.30pm.

Fee: \$113

LANG198 INTRODUCTORY INDONESIAN - LEVEL 1

Credit Points: 3

This is a seven week course for beginners or near-beginners and is designed to provide an introduction to the Indonesian language. While the emphasis is on the spoken language, a grammatical basis will also be given. By the end of the course, students should be able to communicate in Indonesian in a number of situations and to read and write basic Indonesian.

Mondays & Wednesdays 1.30pm - 4.30pm

Fee: \$113

**LANG199 INTRODUCTORY INDONESIAN -
LEVEL 2
Credit Points: 3**

This is a seven week course for those who have successfully completed LANG198: Introductory Indonesian/Malaysian or have successfully completed HSC Indonesian. The course is designed to provide a more sophisticated understanding of grammatical constructions and idiom. The course will be designed to equip students with language use appropriate to academic and professional intercourse as well as everyday usage.

Fee: \$113

**PHIL211 CLASSICAL PHILOSOPHY
Credit Points: 8**

Pre-requisite: Any 18 credit points.

A detailed examination of Plato's Republic and an assessment of Plato's opinions on the point of morality, the nature of knowledge, the aims of education, the best sort of government and the roles and responsibilities of the artist and the philosopher. No prior knowledge of Philosophy or Ancient History is assumed.

Tuesdays & Thursdays 1.30pm - 4.30pm

Fee: \$300

PHIL216 LOGIC B

Credit Points: 8

Pre-requisite: Any 18 credit points

This is a basic introduction to elementary formal logic. Students will be introduced to the nature of reasoning, the propositional and predicate calculi and methods of proof construction in these systems. Topics discussed will also include translation of sentences into the languages of these calculi, and the relationship between these languages and a natural language such as English. No prior knowledge of philosophy is assumed and this subject does not presuppose any mathematical or other specialist technical knowledge. It meets the logic requirement for students contemplating taking Honours in Philosophy and may also be taken towards the Graduate Diploma in Philosophy, as well as a first degree.

Wednesdays & Fridays 9.30am - 12.30pm

Fee: \$300

THE UNIVERSITY OF WOLLONGONG

1989/90 SUMMER SESSION

APPLICATION FORM

PLEASE NOTE: At the time of printing, all fees listed in this booklet for credit subjects were under review and will be adjusted to the equivalent 1990 HECS charges.

PLEASE RETURN THIS FORM TO:

The Summer Session Organiser
The University of Wollongong
PO BOX 1144, WOLLONGONG 2500

by 31 October 1989 if possible.

THE UNIVERSITY OF WOLLONGONG
1989/90 SUMMER SESSION APPLICATION

STUDENT NO: (if applicable)

FAMILY NAME:

GIVEN NAME:

DATE OF BIRTH: AGE:

ADDRESS:

..... POST CODE:

PHONE: Home: Work:

1. List below, in order of preference, the subjects you would like to enrol in: (Note: For credit purposes a maximum total of 14 credit points may be taken in the Summer Session.)

i)

ii)

iii)

iv)

2. - Are you currently enrolled at the University of Wollongong?
- Do you wish to count the above credit subjects towards your degree/diploma?
- Have you ever been enrolled at the University of Wollongong? YES Year
- Are you currently enrolled at another tertiary institution?

Name of Institution:

Course:

3. Will you require accommodation?
4. Will you require child care facilities while attending Summer Session?

(If you answer yes to questions 3 or 4, appropriate arrangements will be sent to you.)

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ION FORM

OFFICE USE ONLY

Enrolled in 1989?

L/F Check

Subject(s) that
credit subjects
applies for

Pre & Co Reqs?

University of
YES NO
subject towards

Date Offered

University of
() NO

tertiary
YES NO

Receipt No/Date

YES NO
attending the
YES NO
appropriate forms

PHIL294 MINDS AND MACHINES A

Credit Points: 8

Pre-requisite: At least 12 credit points in philosophy or PHIL231 or PHIL262.

An introduction to contemporary philosophy of mind. Throughout the course we will be concerned with two main questions:

- i How adequate is the computer model of the human mind?
- ii Could a computer ever have genuine intelligence or consciousness? Topics covered will be from amongst the following:

Artificial intelligence research - its aims, principles and achievements - the computer as a model for the human mind, and biological brains and souls - intentionality - intelligence and creativity, and approaches to program resistant features - freedom of the will - learning, innate ideas and sociobiology - consciousness, self-consciousness - feelings and emotions.

Mondays 1.30pm - 4.30pm. Tuesdays 9.30am - 12.30pm.
Fee: \$300

SOC 101 SOCIETY AND CULTURE

Credit Points: 6

This course is designed to introduce students to basic sociological concepts and theory. The socialisation of individuals into society, via the institutions of family, school and work, will be examined through various theoretical frameworks. Cultural differences based on social class, ethnicity and gender will provide material for investigating ways of facilitating social change in Australia. Particular attention will be given to social movements, including the environmental lobby and the women's movement.

Wednesdays 9.30 am - 12.30pm (repeat seminar 2.30pm - 4.30pm). Thursdays 9.30am - 12.30pm (repeat seminar at 2.30pm -4.30pm).
Fee: \$225

SOC 102 CONTEMPORARY ART AND SOCIETY

Credit Points: 6

This course will examine developments in the Arts in the post World War II period from the perspective of debates current within contemporary social theory. Although the course will cover theoretical questions concerning the value of such concepts as Modernism and Post Modernism,

the emphasis will be on the Arts as forms of social activity. It will extend beyond the considerations of "High Art" to cover such areas as popular music and film.

Mondays 9.30am - 12.30pm (repeat seminar 2.30pm - 4.30pm). Tuesdays 9.30am - 12.30pm (repeat seminar 2.30pm - 4.30pm).

Fee: \$225

STS 112 THE SCIENTIFIC REVOLUTION- HISTORY, PHILOSOPHY AND POLITICS OF SCIENCE

Credit Points: 6

An introduction to the history of Western science and to contemporary philosophical perspectives on scientific method and scientific change. The subject consists of a series of extended case studies illustrating the methods and problems of modern discipline of History and Philosophy of Science.

Topics will include: the nature of scientific knowledge and of scientific revolutions; the origins of Western science in Greek culture; the Copernican revolution in astronomy and the overthrow of the Medieval world-view; the career, trial and condemnation of Galileo.

This subject serves as a pre-requisite for a number of upper level subjects in STS, but is also specifically designed to complement first year study of History, Philosophy, Sociology, Psychology or English.

Mondays & Wednesdays 1.30pm - 4.30pm.

Fee: \$225

STS 120/220 TECHNOLOGY AND THE MODERN INDUSTRIAL STATE

Credit Points: 6/8

Pre-requisite: Any 100 level subject.

The contemporary social system of science and technology in the industrially advanced countries (capitalist and socialist) has two distinguishing characteristics. Firstly, the process of development and application of technology has become highly differentiated, specialised and capital intensive, involving scientists and engineers with diverse skills in the research and development (R&D) laboratories of industry, the universities and government. Secondly, R&D activities are undertaken in relation to three, inter-related objectives: the survival and development of industry, the development of military weapons and the

development of prestigious 'high technology' (eg nuclear, space, aircraft, advanced electronics).

Topics include patterns of industrial innovation and their contribution to industrial growth, the emergence of science-based industries, the rise of science-based industries, the military-industrial complex, technology and war, growth of State involvement in the support and direction of technology, post-industrial society, social effects of technological change.

Mondays & Wednesdays 9.30am - 12.30pm.

Fee: \$225 for SSTS120, \$300 for STS220

STS 201 THE MYTH OF SCIENTIFIC METHOD: CONTEMPORARY PERSPECTIVES ON KNOWLEDGE AND OBJECTIVITY

Credit Points: 8

Pre-requisite: Any 100 level subject.

This course, primarily intended for students who have completed STS112, STS122 or STS140, will provide an understanding of the social nature of scientific practice and scientific knowledge. It has long been assumed scientific knowledge derives its particular status because it is based on an unchanging objective method. Hence any knowledge-claim, from any field of human endeavour, which does not arise from the application of the method, is not regarded as scientific. However, recent developments in the history and philosophy of science have cast doubt upon the belief in the existence of such a universal method. This course will critically assess these new developments with reference to such issues as: the construction of scientific 'facts', the social character of experiment and observation, the social political role of scientific method, and the social and political process of theory change.

Tuesdays & Thursdays 9.30am - 12.30pm.

Fee: \$300

STS 228 COMPUTERS IN SOCIETY

Credit Points: 8

Pre-requisite: Any 100 level subject.

This course examines the development, role and implications of computers in contemporary future society. Issues to be examined include the history of computers, the development of computers through mechanical, valve, transistor and integrated circuit technology; defence and space programs as catalysts for development; applications of computers in corporate decision-making; government

planning, education and health-care; automation, robotics, information processing, databanks; implications for privacy and surveillance; the nature of work, employment, social management and control; the power of the State; machine intelligence and human identity.

Tuesdays & Thursdays 9.30am - 12.30pm.

Fee: \$300

STS 260 WOMEN, SCIENCE & SOCIETY

Credit Points: 8

Pre-requisite: Any 100 level subject.

In this course students will explore a variety of theoretical frameworks for explaining the relationship between gender and science. The course is structured around three questions:

- i Why have there been so few women involved in the production of scientific knowledge?
- ii What has science said about women?
- iii How can change occur?

These are examined from three different perspectives. The first focuses on discrimination and sexism in science. The second sees science as having acquired a masculine gender with its emphasis on the 'cold hard facts'. The third approaches scientific knowledge as a social construction which has frequently played a crucial role in the development and maintenance of power differences between the sexes. Case studies include sociobiology, genetics, brain difference research, medicine and animal behaviour studies.

Tuesdays & Thursdays 1.30pm - 4.30pm.

Fee: \$300

FACULTY OF COMMERCE

ACCY231 INFORMATION SYSTEMS IN ACCOUNTING

Credit Points: 6

Pre-requisite: ACCY101

Management information systems, including data collection and processing, internal control and internal reporting. System design and computer applications.

Tuesdays & Wednesdays 6 hours per week

Fee: \$225

ACCY342 ADVANCED AUDITING**Credit Points: 6**

Pre-requisite: ACCY201 or ACCY202

This is an intensive seven-week course designed to cover advanced aspects of auditing, including auditing standards and responsibilities, problems of valuation and verification, organisation and application to various forms of accounting systems including computer systems and investigations.

Mondays & Thursdays 10.30am - 1.00pm

Fee: \$225

AICA111 INTRODUCTORY BUSINESS**COMPUTING A****Credit Points: 6**

As an introduction to the fundamentals of computing, this subject has two main objectives. It examines the techniques of structured programming using the BASIC language, emphasising problem solving skills, stepwise refinement in program development and good coding style. It also studies the principles of operation and the functional components of a modern computer system, providing a systematic framework to examine the interrelation between hardware and software, and the current trends in information technology.

Mondays & Wednesdays

Lectures: 9.30-11.30am Tutorials: 11.30am - 1.30pm
/1.30pm - 3.30pm /3.30pm to 5.30pm.

Fee: \$225

AICA214 STRUCTURED BUSINESS**PROGRAMMING I****Credit Points: 6**

Pre-requisite: AICA111 (or CSCI111 with waiving of pre-requisite form).

This is an introduction to the design, construction, coding, testing and documentation of computer programs in COBOL. Particular emphasis will be placed on the techniques of structured programming and modular design. Topics covered include: COBOL language syntax, compiling and linking, data division elements, file design, input/output operations, program logic control, tables and arrays, sequential and random files, testing and debugging procedures, screen design and report form design.

Tuesdays & Thursdays 10.30am - 12.30pm and Tutorials
1.30pm - 3.30pm.

Fee: \$225

AIIS201 THE AUSTRALIAN LABOUR MARKET

Credit Points: 6

This subject aims to demonstrate and understanding of the way in which wages are determined in the Australian Labour Market; describe the economic role of the trade unions; employers' associations, governments and the arbitration commissions; foster an understanding of terms such as earnings drift, real wages, real wage overhand and wage indexation; discuss the relationship between education and earnings and also the effects of technological change on unemployment. Specific content items that will be drawn from: price determination; labour demand theories; labour supply; the arbitration system; impact of technological change; case studies of the steel industry.

Tuesdays & Wednesdays 5.30pm - 8.30pm

Fee: \$225

AISB105 SMALL BUSINESS COMPUTING

Credit Points: 6

This course is designed for students who have little or no experience in the use of micro computers. Topics to be covered include: What is a micro computer and what makes it tick; elements of wordprocessing; spreadsheets; data base; accounting software and other software packages; how to choose the best machine for your needs and a business simulation game. This will be a "hands on" subject!

Mondays & Wednesdays 5.30pm - 8.30pm.

Fee: \$225

ECON101 INTRODUCTORY MACRO-ECONOMICS

Credit Points: 6

An introduction to macroeconomic analysis including the study of national income and the relationships between flows of payments and flows of goods and services which constitute income.

An introductory study of some important Australian economic institutions and change in these institutions affecting the structure of markets for produces, financial markets and the labour market.

Lectures: Tuesday, Wednesday & Thursday 9.30am - 11.30am.

Tutorials: Tuesday, Wednesday 11.30am - 12.30pm (repeats on Tuesday & Wednesday 3.30pm - 4.30pm).

Fee: \$225

ECON222 MATHEMATICAL ECONOMICS
Credit Points: 8

Not to count with ECON322.

Mathematical treatment of economic topics including: theory of consumer behaviour; theory of production; welfare economics; basic macro-economic models; input-output tables; theory of economic growth; market equilibrium. Techniques include: linear algebra; optimisation; differential and integral calculus.

Tuesdays & Thursdays 12.30pm - 3.30pm.
Fee: \$300

**ECON230 QUANTITATIVE ANALYSIS
FOR DECISION MAKING II**
Credit Points: 6

The role of quantitative analysis in the decision-making process. Problem-solving techniques will be studied with emphasis on their practical application. Topics may include: linear programming, integer programming; goal programming; network analysis; systems simulation; decision theory and inventory and queuing models.

Not to count with ECON225, ECON226 or ECON228.

Mondays & Tuesdays 9.00am - 12noon (2.00pm - 3.00pm
tutorial repeats)
Fee: \$225

**ECON313 ECONOMICS OF ENERGY
RESOURCES: A COMPARATIVE STUDY OF
CANADA & AUSTRALIA**
Credit Points: 8

The main objectives of the subject are to: review the applications of economic theory in the economies of Canada and Australia; and evaluate the available options of energy policies in the two economies. The course topics include: social objectives with respect to energy, renewable and non-renewable energy resources; optimisation frameworks for the extraction of energy resources; the demand for energy; the energy supply response - the role of alternative energy technologies and the role of nuclear energy; energy deficits and the role of international trade; and the design and implementation of energy policies.

Mondays & Tuesdays 2.00pm - 5.00pm
Fee: \$300

MGMT101 ORGANISATIONAL BEHAVIOUR

Credit Points: 6

The objective of this course is to provide a conceptual understanding of the behaviour of individuals and groups in organisations and their role in the growth, development and decline of organisations.

We will explore behavioural influences which affect productivity, effectiveness and efficiency. We will look at such topics as motivation, leadership, job design and group behaviour, as well as exploring a variety of other areas as they relate to organisations, including organisational culture, organisational climate, and organisational power.

Tuesdays & Thursdays 11.30am - 1.30pm

Fee: \$225

MGMT201 BUSINESS COMMUNICATIONS

Credit Points: 6

In this subject students will: develop an understanding of a theoretical model of the communication process; relate that model to a series of practical situations; develop and understanding of the ways of facilitating communication; become aware of the stages at which communication may break down and ways of avoiding this; development an appreciation of the factors, both personal and technical, involved in shaping, directing and receiving a piece of oral or written communication; develop their awareness of non-verbal factors involved in communication.

Mondays & Wednesdays 1.30pm - 4.30pm

Fee: \$225

MGMT912 ORGANISATION STRUCTURE AND CONTROL

Credit Points: 6

This subject complements MGMT 911 Organisational Behaviour. MGMT 911 focuses on individual, interpersonal and group behaviour in workplace settings. MGMT 912 examines organisations in their environments and the overall characteristics of organisations as these affect organisation structure and effectiveness.

Tuesday 9am - 11am and Thursday 9am - 11am

Fee: \$225

MGMT980 BUSINESS RESEARCH METHODS

Credit Points: 6

The purpose of this subject is to acquaint students with quantitative and qualitative methods of research. Emphasis will be placed on practical examples. Special interests of students will be catered for.

Monday & Wednesday 9am - 11am

Fee: \$225

FACULTY OF ENGINEERING

CIVL231 HYDRAULICS 1

Credit Points: 4

This is an introductory subject in hydraulics covering a wide range of basic but essential topics. The topics include Properties of fluids, Hydrostatics, Kinematics, Conservation equations, Flow measurements and Laboratory experiments.

Properties of fluids: Introduction, fluid state, Pascal's Law,, density, compressibility, surface tension, viscosity and vapour pressure.

Hydrostatics: Pressure-density-height relationships, pressure measurements, manometers, force on submerged plane and curved surfaces, stability of floating bodies and buoyancy.

Kinematics: Uniform and steady flow, stream lines and stream tubes, velocity and acceleration and control volume.

Conservation equations: Conservation of mass, energy and momentum equations. Euler and Bernoulli's equations.

Flow measurements/Laboratory experiments: Flow over spillways and weirs, Venturi meter, Piezometers, Manometers, Impact of jets and Hydrostatics.

Tuesdays & Thursdays 9.30am - 1.30pm.

Fee: \$150

MECH467 MECHANICAL ENGINEERING APPLICATIONS OF FINITE ELEMENT TECHNIQUES

Credit Points: 4

Introduction to Finite Element method. Application of F.E. technique to engineering problems using PC-based packages.

Lectures: Monday & Wednesday 9.30am - 11.30am

Tutorials: Monday & Wednesday 11.30am - 12.30pm

Fee: \$150

FACULTY OF MATHEMATICAL SCIENCES

CSCI100 COMPUTING STUDIES **Credit Points: 6**

The objectives of this subject are: to provide an introduction to the study of Computing Science for those students who have no previous experience of studies in their school education and who propose to follow a program of studies at University; and to serve as a Computer literacy subject for those students who want more than the University's current minimum computer literacy requirements.

Topics will include: computer systems organisation including both main hardware and software components, data manipulation in spreadsheets and databases, the use of declarative programming languages to specify rules for manipulation, introductory topics related to "Expert Systems".

Tuesdays & Thursdays 9.30am - 11.30am and 1.30pm - 4.30pm
Fee: \$225

FACULTY OF SCIENCE

GEOL987 COAL UTILISATION **Credit Points: 6**

Keywords: Preparation, grindability, washing, liberation, gasification, pyrolysis, solvent extraction, hydrogenation, carbonisation; mesophase, coke structure, coke strength, combustion, ash properties.

Saturday 4 November to Saturday 18 November, 1989.
Fee: \$225

GEOL988 ENVIRONMENTAL ASPECTS **Credit Points: 6**

Keywords: Pollution, dusts, gas emissions, reclamation, mine subsidence, waste products, environmental impacts, alienation of resources and conflicts of interest.

The relationship of mining operations to communities, downstream pollution problems, mineralogical composition

and types of associated dusts, the composition of mine waters and stack emissions, the reclamation of mine sites, the effects of mine subsidence, the composition, uses and disposal of waste residues, environmental impact studies. Alienation of resources and conflicts of interest will be studies within the overall framework of coal mining and utilisation.

Saturday 4 November to Saturday 18 November, 1989.
Fee: \$225

**HSCH911 COMMUNICATION IN COMMUNITY
HEALTH - THE HEALTHY CITIES APPROACH**
Credit Points: 8

This course deals with skills necessary for effective communication; small group facilitation, health promotion and community participation and development. It uses the small group task development process, (NOT the therapeutic group process), to improve and develop these skills.

Areas covered are:

- Listening
- Teaching and learning
- Experiential learning
- Small group process
- Conflict resolution
- Working with others
- Letting go

The subject builds on previous learning in the core course, Communication and Education (HSCS902). Group process will be organised around a particular health area "Healthy Cities" which is an intersectoral and community development approach to improving the health of the Illawarra community.

Monday 11 December to Friday 15 December, 1989 9.00am
- 5.00pm.
Fee: \$300

THE UNIVERSITY
OF WOLLONGONG
SUMMER SESSION 1989/90

Supplement to
the University Calendar

