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CITY OF WOLLONGONG



# Summer Session 1990/91

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REFERENCE

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## SUMMER SESSION 1990/91

### GENERAL INFORMATION

This booklet provides details of the subjects to be offered by the University of Wollongong for its summer session program in 1990/91. If after reading the booklet you need further information, please do not hesitate to come to the Student Enquiries Office or phone the University on (042) 270927.

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

### SUMMER SESSION 1990/91 DATES

#### Credit Subjects

10/12/90	-	21/12/90	(2 weeks lectures)
24/12/90	-	4/1/91	(2 weeks recess)
7/1/91	-	8/2/91	(5 weeks lectures)
11/2/91	-	15/2/91	(1 week examinations)

#### Bridging Subjects

4/2/91	-	15/2/90	(2 weeks, Biology, Chemistry, Physics)
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### WHAT SUBJECTS ARE AVAILABLE

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

**Credit** subjects will normally be undertaken by students 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 (ie, 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 (refer to non-award (miscellaneous) enrolments).*

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

## **ENROLMENT IN PROGRAMS EXCEEDING 14 CREDIT POINTS**

Students wishing to enrol in programs with a value exceeding 14 credit points in summer session must get prior approval. Students may apply for approval on the appropriate form which is available from the Student Enquiries Office in the Administration Building.

## **NON-AWARD (MISCELLANEOUS) ENROLMENTS**

A person wishing to enrol in non-award subjects (ie. credit subjects not counted towards a degree or diploma at the University of Wollongong) may be considered provided the Head of the Academic Unit offering the subject considers it will be of benefit to the student and there are facilities available. To be eligible for admission as non-award students, applicants must meet the University's normal entry requirements and the subject pre- and co-requisite requirements. Priority will be given to those already enrolled at a tertiary institution who wish to count subjects towards their degrees or diplomas.

## **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 1990.** Late applications will be considered if places are available.

## **COSTS**

Students are required to pay the following charges and fees:

- (i) All participants in the summer session will be required to pay a charge of \$21 for Associate Membership of the Union (\$15) and the Recreation and Sports Association (\$6). This charge will allow participants complete access to the Union's and Recreation and

Sports Association's facilities including cafeteria, bistro, bar, squash courts, swimming pool and other facilities. Students who are enrolled at the University of Wollongong in 1990 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 1991 HECS charges.
- (iii) Fee paying international students are required to pay additional fees for subjects undertaken during 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 1990 in award courses will incur a HECS liability in accordance with the number of credit points undertaken and 1991 HECS charges. At the time of printing 1991 HECS charges were under review by the Department of Employment, Education and Training.
- (v) Fees and charges cannot be refunded after the first day of summer session (ie. after 10 December 1990).

## 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 10 December 1990, which is the FIRST DAY OF SUMMER SESSION.**

### Payment of Summer Session HECS

#### a. Payment Option Form

Students are **not** to complete another HECS payment option form for summer session unless they wish to change their method of payment (eg. they wish to pay HECS "upfront" for summer session where they previously chose to defer payment of autumn and spring session HECS). The last date to change the method of payment for summer session is **Friday, 7 December 1990.**

**b. Payment of "Upfront" HECS**

Students who have elected to pay HECS "upfront" must pay the Cashier, Administration Building, by Friday 7 December 1990. The current HECS amount will be noted on the Enrolment Record.

**ACCOMMODATION**

University administered collegiate, non-collegiate and private accommodation is available. The Accommodation Officer, Robyn Wilkes, can help with summer session accommodation and she can be contacted by telephoning (042) 270351 from 9am to 5pm.

**CHILD CARE**

Kids' Uni will be available during the summer session. Fees are calculated on a sliding scale based on family income. The Kids' Uni is open from 8.15am to 5.30pm and cares for children in the 0 - 6 year old age group. For further information contact the Director, Jillian Trezise, c/- The Union or phone Kids' Uni (042) 270072. Application forms and information sheets can be obtained from the Centre.

**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 1990/91 summer session. However, the University reserves 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 or who wish to revise or update their basics in Biology should attend. The syllabus includes, Chemistry of Living Things; Cell Structure and Organelles; tissues and systems; reproduction; systems of classification; environment studies. Appropriate laboratory skills are also taught.

Two weeks beginning Thursday 7 February to Wednesday 20 February 1991.  
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 within high school science.

Two weeks beginning Thursday 7 February to Wednesday 20 February 1991.  
9.30am - 12.30pm

Fee: \$75

### **PHYSICS: THE MATHEMATICAL BACKGROUND**

Physics is a science which requires an understanding of both experimental work and theoretical development. This subject is designed to provide students with an understanding of the fundamental concepts of physics and the mathematical tools necessary to appreciate them fully.

The subject will deal with a selection from the following topics:  
Trigonometry; mathematical functions and their application to sound and light waves; vector algebra and its use in describing forces and motion; an introduction to calculus; solutions of equations; observations and uncertainties; the use of computer spreadsheets in physics.

Two weeks beginning Thursday 7 February to Wednesday 20 February 1991.  
1.30pm-4.30pm.

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.

Two weeks beginning Monday 10 December to Friday 21 December 1990.  
9.30am - 12.30pm.

Fee: \$75

## CREDIT SUBJECTS

### Please note:

1. All credit subjects run for the full seven weeks of the summer session.
2. Full details of these subjects are contained in the University Calendar.
3. Students should check that the subjects in which they intend to enrol are listed in the appropriate schedule of the degree/diploma in which they are currently enrolled. Failure to do so, may mean that credit points gained for a subject may not be able to be counted towards their degree/diploma.

## FACULTY OF ARTS

### **AAPT108      SCREEN PRODUCTION A**

Credit points:    6

Explanation of basic Film and Television terminology. Introduction to various formats and types of film and video equipment; instruction and practice in the use of operation of basic film and video equipment and facilities; instruction in the basic theory of planning and shooting a film or video production; develop familiarity with equipment through individual short practical exercises.

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

Wednesday 2 January - Thursday 14 February 1991, 6.30pm - 9.30pm

Fee - \$235 for non-award (miscellaneous) students.

### **AAPT109      SCREEN PRODUCTION B**

Credit Points:    6

Pre-requisite:    AAPT108, AAPA140

Advanced instruction and practice in using film and video equipment; further instruction in the basic theory of planning and shooting of a film or video production; further instruction in basic editing techniques and use of post-production facilities; undertake a small group production of a short film or videotape.

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

Tuesdays and Thursdays 6.30pm - 9.30pm commencing Thursday 3 January - Thursday 14 February 1991

Fee: \$235 for non-award (miscellaneous) students.

### **ENGL199 UNDERSTANDING LITERARY TECHNIQUES**

Credit Points: 6

This subject aims to improve students' ability to read and understand literature by examining the common literary techniques used by poets and writers of short fiction. In seminars we will look at the effectiveness of particular devices - like metaphor, symbol and narrative viewpoint - within the thematic and structural framework of individual poems and short stories.

Mondays 1.30 pm - 3.30pm and Wednesdays 2.30pm - 4.30pm

Fee: \$235 for non-award (miscellaneous) students.

### **ENGL297 LITERARY PERSPECTIVES OF AUSTRALIA IN THE PACIFIC**

Credit Points: 6

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

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

Tuesdays and Thursdays 10.30am - 12.30pm

Fee: \$235 for non-award (miscellaneous) students.

### **ENGL299 THE VIKINGS: OLD NORSE CULTURE LANGUAGE AND LITERATURE**

Credit Points: 8

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

This subject introduces students to the culture and social achievements of the societies which produced the Vikings; to the impressive literature they produced including the poems of the Elder Edda, the unique family sagas, and the work of the saga historian Snorri Sturluson (in translation). It also gives

students an insight into their language (Old Norse, or Old Icelandic) which is of great historical importance and closely related to the earliest form of English.

Tuesdays and Wednesdays 11.30 am- 12.30pm, 1.30 pm - 3.30pm

Fee: \$314 for non-award (miscellaneous) students.

**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 have 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 continue 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 and Wednesdays 10.30am- 11.30am and 11.30am - 12.30pm or 1.30pm - 2.30pm

Fee: \$235 - for non-award (miscellaneous) subjects.

**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 and Thursdays 9.30am - 11.30am

Fee \$235 for non-award (miscellaneous) students.

**GENE114      COMPUTERS AND THE ARTS**

Credit Points: 3

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 potentiality for research development.

Tuesdays and Wednesdays 4.30pm - 6.30pm

Fee: \$118 for non-award (miscellaneous) students.

**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 of 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 Kruschchev;
- 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 and Wednesdays 9.30 am - 12.30pm or Tuesdays and Thursdays 9.30am- 12.30pm

Fee: \$314 for non-award (miscellaneous) students.

**MLCG101      INTRODUCTORY GERMAN - LEVEL 1**

Credit Points: 6

This is a seven-week course for beginners or near-beginners and provides an introduction to the German language and society. While the emphasis is on the communicative function, a solid grammatical basis will also be given. By the end

of the course students should be able to communicate in German in a number of situations and to read and write basic German.

Lectures and tutorials - 12 hours per week

Fee: \$235 for non-award (miscellaneous) students.

**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 and Thursdays 1.30pm - 4.30pm

Fee: \$314 for non-award (miscellaneous) students.

**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 and Fridays 9.30am - 12.30pm

Fee: \$314 for non-award (miscellaneous) students.

**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:

1. How adequate is the computer model of the human mind?
2. Could a computer ever have a 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 and Wednesdays 1.30pm - 4.30pm

Fee: \$314 for non-award (miscellaneous) students.

**PHIL394 MINDS AND MACHINES B**

Credit Points: 12

Pre-requisites: At least 16 Philosophy credit points at 200 level or 12 Philosophy credit points at 300 level.

This course examines some central issues in contemporary philosophy of mind, with particular attention to assess the computational theory of mind, and its implications for the potential of computers, and for our understanding of ourselves. It will provide an introduction to the broad aims, principles and achievements of artificial intelligence research, and an opportunity to understand and assess the computer model of the mind, and whether biological brains (and/or souls) must have special features. Will it one day be possible to program intentionality, genuine intelligence and understanding, creativity, or freedom of the will? - and what about consciousness, self-consciousness, feeling and emotions?

Mondays and Wednesdays 1.30pm - 4.30pm

Fee: \$471 for non-award (miscellaneous) students.

**SOC 101      SOCIETY & 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. Inequality in Australia will be examined through an investigation of the socially constructed division of gender, ethnicity, race and class. The course will also include an examination of the way that everyday life is influenced by: the media, by crime and punishment, by urban planning, and by Australia's position in the world economy.

Wednesdays and Thursdays 9.30am - 12.30pm (repeat seminar 2.30pm - 4.30pm)

Fee: \$235 for non-award (miscellaneous) students.

**SOC 102      CONTEMPORARY ART AND SOCIETY**

Credit Points:    6

This course applies theoretical perspectives from the social sciences to the study of contemporary arts practice. The emphasis will be on the interaction between social change and developments in the arts in post World War II period, although this will be examined in relation to its wider historical context. The course will extend beyond the consideration of fine arts to encompass popular and commercial forms, including pop music, photography, film and television. Attention will also be directed to the diverse ethnic and indigenous traditions that have enriched the development of contemporary Australian culture.

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

Fee: \$235 for non-award (miscellaneous) students.

**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 and Wednesdays 1.30pm - 4.30pm

Fee: \$235 for non-award (miscellaneous) students.

### **STS 120/220 TECHNOLOGY AND THE MODERN INDUSTRIAL STATE**

Credit Points: 6/8

Pre-requisite: STS 220 requires any 24 credit points (not to count with STS 120)

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 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 and Wednesdays 1.30pm - 4.30pm

Fee: \$235 for STS 120/\$314 for STS 220 for non-award (miscellaneous) students.

**STS 211 THE POLITICS OF WAR AND PEACE**

Credit Points: 8

Pre-requisite: Any 24 credit points

This subject will consider the changing character of war and peace in the 20th Century, particularly in relation to the enormous technological advances made in war technology, and the novel forms of organisation of the state introduced this century. Topics to be studied include: war in industrial societies; the political role of war in the 20th Century; the history of military technology in the 20th Century; arms races, balances of power and bloc formation; total war and the absolute weapon; neutrality alignment and balances of power; non nuclear and non military defence; and implications for Australia.

Mondays and Wednesdays 10.30am - 11.30am and 1.30pm - 3.30pm

Fee: \$314 for non-award (miscellaneous) students.

**STS 228 COMPUTERS IN SOCIETY**

Credit Points: 8

Pre-requisite: Any 24 credit points

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 and Thursdays 1.30pm - 4.30pm

Fee: \$314 for non-award (miscellaneous) students.

**STS 258 INFORMATION TECHNOLOGY AND EVERYDAY LIFE**

Credit Points: 8

Pre-requisite: STS 128 or STS 113

New information technologies, and new versions of old information technologies, constantly transform the lives of citizens and consumers. Some empower the citizen - for example, solar powered telephones for use in isolated

locations. Some empower the state - for example, the use of a tax file number. This subject examines the costs and benefits of information technology from the point of view of the consumer - for example, users of automated teller machines or shoppers buying bar-coded goods and paying for them with the same plastic card. The issues to be considered will include: How adequately does the political system deal with the consumer impact of information technologies? Why are some technologies successfully deployed (eg. tax file number, compact disks) and others not (eg. Australia Card, digital audio tape)? Why are some information technologies embraced by most consumers (eg. Bankcard), while others meet strong resistance (eg. telephone answering machines)? How are consumers educated about information technologies? In what ways do consumers utilize information technologies to their own ends, and what attempts have been made to regulate this? How and why are information technologies represented to consumers (eg. optional or inevitable, controllable or autonomous)?

Tuesdays and Thursdays 9.30am - 12.30pm.

Fee: \$314 for non-award (miscellaneous) students.

## **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:

1. Why have there been so few women involved in the production of scientific knowledge?
2. What has science said about women?
3. 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.

Mondays and Wednesdays 9.30am - 12.30pm

Fee: \$314 for non-award (miscellaneous) students.

**STS 268            TECHNOLOGY AND FOOD**

Credit Points: 8

Pre-requisites: Any 24 credit points at 100 level.

This course is designed to investigate the technologies associated with food production and processing from an historical as well as contemporary perspective.

The course begins by investigating the development and adoption of increasingly complex production technologies in use today. The political economy of food production is investigated by conducting case studies of food production in developing and developed economies.

Other areas addressed during the course include the fit between human nutritional needs and processed foods, the ethical and moral issues generated by capital intensive production practices and the environmental implications of contemporary agricultural technologies.

The course concludes with consideration of alternative production models with emphasis on sustainability.

Mondays and Wednesdays 9.30am - 12.30pm

Fee: \$314 for non-award (miscellaneous) students

**STS 331            COMMUNICATION AND THE INFORMATION SOCIETY**

Credit Points: 12

Pre-requisite: STS100 or STS120 or other relevant subjects as determined by Head of Department. This course is particularly suitable for students who have taken STS128 or STS228.

Over recent years, telecommunications and computing technologies have converged. The effects of this convergence are not yet fully recognised but evidence is beginning to emerge which suggests that a new approach to the understanding of work and organisations is required. This new approach needs to take account of first, the "Textualisation" of work and second, the blurring of distinction between manual and mental work which is said to be occurring.

The course will examine the effects of information technology on work and organisations principally through the work of Zuboff (1988). The author's main conclusion is that the full benefits from information technology can only be achieved when managers can relinquish their old ideas about employees and

organisations. Managers now need to embrace a "new vision of work and organisation".

The main topics covered by the course are: Theories of organisation and industrial society. How and why organisations change. Early and recent socio-technical theory. The computer and the "textualisation" of work. The limits of hierarchy in an "informed" organisation. Information technology as a window on the organisation - "Panoptic" power. The changing nature of managerial authority. Authority and expert systems. Decision-making in the information age. The changing nature of Human Resource Management. The scope of information technology in the modern organisation.

Mondays and Wednesdays 1.30pm - 5.30pm

Fee: \$471 for non-award (miscellaneous) students.

**FACULTY OF COMMERCE****AICA111      INTRODUCTORY BUSINESS COMPUTING A**

Credit Points: 6

Not to count with CSCI111

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 and Wednesdays

Lectures: 9.30am - 11.30am

Tutorials: 11.30am - 1.30pm, or 1.30pm - 3.30pm, or 3.30pm - 5.30pm

Fee: \$235 for non-award (miscellaneous) students.

**AICA214      STRUCTURED BUSINESS PROGRAMMING 1**

Credit Points: 6

Pre-requisite: AICA111 or AICA101 (not to count with CSCI223 or AICA112)

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 from design.

Tuesdays and Thursdays

Lectures: 10.30am - 12.30pm

Tutorial: 1.30pm - 3.30pm

Fee: \$235 for non-award (miscellaneous) students.

**AIIS201 THE AUSTRALIAN LABOUR MARKET**

(Associate Diploma only)

Credit Points: 6

This subject aims to demonstrate an 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 in chosen industries.

Tuesdays and Thursdays 5.30pm - 8.30pm

Fee: \$235 for non-award (miscellaneous) students.

**AIIS210 HISTORY AND FUNCTION OF TRADE UNIONS**

(Associate Diploma only)

Credit Points: 6

This subject will not only enable further study of important subject areas treated elsewhere, but will also allow a degree of specialisation according to interest. The subject examines the history and structure of Australian trade unions within the framework of the labour movement as a whole. Discussion of the role of unions within Australian society has generated more heat than light and the nature of union power and influence is poorly understood within the community. Media coverage of union affairs usually serves to exacerbate this situation. The challenge for any subject on unionism must therefore be to provide reliable information about an area of constant controversy as well as promote the realisation that labour organisations are an integral and necessary feature of Australian society. This course is ultimately concerned with fitting the trade union movement into a general appreciation of industrial relations.

Wednesdays and Thursdays 4.30pm - 7.30pm

Fee: \$235 for non-award (miscellaneous) students.

**AIIS307 SPECIAL TOPIC IN ADMINISTRATION**

(Associate Diploma only)

Credit Points: 6

Pre-requisite: Completion of at least 48 credit points of Associate Diploma in Administration subjects.

A work-related problem in the student's area of management/supervision will be put under focus. This problem will be reported on by the student and theoretical solutions examined.

Mondays and Tuesdays 3.30pm - 6.30pm

Fee: \$235 for non-award (miscellaneous) students.

**AISB105 SMALL BUSINESS COMPUTING**

(Associate Diploma only)

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 and Wednesdays 5.30pm - 8.30pm

Fee: \$235 for non-award (miscellaneous) students.

**ECON101 INTRODUCTORY MACROECONOMICS**

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 producers, financial markets and the labour market.

Lectures: Tuesdays and Wednesdays 9.30am - 11.00am and 11.30am - 1.00pm and two hours of tutorials.

Fee: \$235 for non-award (miscellaneous) students.

### **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 and Thursdays 12.30pm - 3.30pm

Fee: \$314 for non-award (miscellaneous) students.

### **ECON228 QUANTITATIVE ANALYSIS FOR DECISION MAKING I**

Credit Points: 8

Not to count with ECON225, ECON226 or ECON230

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.

Note: Lectures and tutorials for ECON228 and ECON230 will be held concurrently.

Mondays and Tuesdays 9.00am - 11.00am and 2 hours of tutorials.

Fee: \$314 for non-award (miscellaneous) students.

**ECON230      QUANTITATIVE ANALYSIS FOR DECISION  
MAKING II**

Credit points: 6

Not to count with ECON225, ECON226 or ECON228

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.

Note: Lectures and tutorials for ECON228 and ECON230 will be held concurrently.

Mondays and Tuesdays 9.00am - 11.00am and 2 hours of tutorials.

Fee: \$235 for non-award (miscellaneous) students.

**ECON313      ECONOMICS OF ENERGY RESOURCES**

Credit points: 8

The main objectives of the subject are: to review the applications of economic theory to contemporary energy problems; and to evaluate the available options for energy policies. 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; energy supply and the role of alternative energy technologies including the role of nuclear energy; energy deficits and the role of international trade; and the design and implementation of energy policies.

Mondays and Tuesdays 2.00pm - 5.00pm

Fee: \$314 for non-award (miscellaneous) students.

**ECON919      ECONOMICS OF ENERGY RESOURCES**

(Post-graduate only)

Credit points: 8

The main objectives of the subject are: to review the applications of economic theory to contemporary energy problems; and to evaluate the available options for energy policies. 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; energy supply and the role of alternative energy technologies including the

role of nuclear energy; energy deficits and the role of international trade; and the design and implementation of energy policies.

Mondays and Tuesdays 2.00pm - 5.00pm

Fee: \$314 for non-award (miscellaneous) students.

### **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.

Mondays and Wednesdays 10.30am - 12.30pm

Fee: \$235 for non-award (miscellaneous) students.

### **MGMT102      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 an understanding of the ways of facilitating communication; become aware of the stages at which communication may break down and ways of avoiding this; develop 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 and Tuesdays 9.30am - 12.30pm

Fee: \$235 for non-award (miscellaneous) students.

**MGMT912 ORGANISATION STRUCTURE AND CONTROL**

(Post-graduate only)

Credit Points: 6

This subject complements MGMT911 Organisational Behaviour. MGMT911 focuses on individual, interpersonal and group behaviour in workplace settings. MGMT912 examines organisations in their environments and the overall characteristics of organisations as these affect organisation structure and effectiveness.

Tuesdays and Thursdays 10.30am - 12.30pm

Fee: \$235 for non-award (miscellaneous) students.

**MGMT940 INNOVATION AND ENTREPRENEURSHIP**

(Post-graduate only)

Credit Points: 6

The nature and role of entrepreneurs and entrepreneurship. The economic, behavioural and institutional conditions associated with entrepreneurship. Entrepreneurship and new high technology enterprises: empirical analysis at a firm and industry level, spin-off enterprises. Entrepreneurship and managing the corporate venturing process.

Mondays and Wednesdays 6.30pm - 8.30pm

Fee: \$235 for non-award (miscellaneous) students.

**MGMT980 BUSINESS RESEARCH METHODS**

(Post-graduate only)

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.

Mondays and Wednesdays 10.30am - 12.30pm

Fee: \$235 for non-award (miscellaneous) students.

## FACULTY OF ENGINEERING

### **CIVL483      SPECIAL TOPICS IN CIVIL ENGINEERING 2**

Credit Points:    4

The subject gives a broad overview of simulation techniques and some engineering simulation languages including GPSS, SIMAN and SLAM students will use GPSS/PC language for tutorial exercises.

Note: Lectures and tutorials for CIVL483 and MINE483 will be run concurrently.

Tuesdays and Thursdays 9.30am - 12.30pm

Fee: \$157 for non-award (miscellaneous) students.

### **MINE483      SPECIAL TOPICS IN MINING ENGINEERING 2**

Credit Points:    4

The subject gives a broad overview of simulation techniques and some engineering simulation languages including GPSS, SIMAN and SLAM students will use GPSS/PC language for tutorial exercises.

Note: Lectures and tutorials for CIVL483 and MINE483 will be run concurrently.

Tuesdays and Thursdays 9.30am - 12.30pm

Fee: \$157 for non-award (miscellaneous) students.

### **CIVL491      COMPUTER APPLICATIONS**

Credit Points:    4

The subject introduces Civil Engineering students to:

- a.    Up-to-date engineering software for the solution of structural problems, including both structural and finite elements.
- b.    The use of the Fortran PLOT package to obtain graphical output from laboratory and theoretical data.
- c.    Introduction to spreadsheets for engineering analysis.
- d.    Introduction to simulation programs.

Mondays and Wednesdays 9.30am - 12.30pm

Fee: \$157 for non-award (miscellaneous) students.

**MECH467      MECHANICAL ENGINEERING APPLICATIONS OF  
FINITE ELEMENT TECHNIQUES**

Credit Points:    4

Introduction to Finite Element Method. Application of FE technique to engineering problems using PC-based packages.

Mondays and Wednesdays 9.30am - 12.30pm

Fee: \$157 for non-award (miscellaneous) students.

**FACULTY OF HEALTH AND BEHAVIOURAL SCIENCES****HSNS390      COMPARATIVE NURSING PRACTICE**

Credit Points:    6

This course is intended as an elective in either the Diploma of Applied Science (Nursing) course or the Bachelor of Nursing course. Students will complete an 8 week placement in a Fijian village, working with local health care providers. Areas of study will include Fijian village lifestyle and its implications for health; health care services in Fiji; nursing practice in Fiji; predominant health threats in rural Fiji; health teaching and health promotion.

For further information please contact Ms Maree Lynch, Department of Nursing.

## FACULTY OF INFORMATICS

### **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 and Thursdays 9.30am - 11.30am and 1.30pm - 4.30pm

Fee: \$235 for non-award (miscellaneous) students.

### **CSCI121      COMPUTING SCIENCE B**

Credit Points:    6

Pre-requisite:    CSCI111

The objective of this subject is to develop the knowledge, skills and techniques introduced in CSCI111 Computing Science IA so that students will have a firm foundation for subsequent studies.

Elements of data abstraction, program specification and correctness proofs will be introduced in an informal way. Skill in analysing the performance of algorithms will also be developed.

The subject will cover data structures and their implementations, including, in particular, sorting, searching and hashing. As with CSCI111, the implementation of the language will be Modula 2 on the Macintosh, and programming assignments will be a major part of the student workload.

Mondays and Wednesdays 9.30am - 12.30pm, 1.30pm - 4.30pm

Fee: \$235 for non-award (miscellaneous) students.

UNIVERSITY OF  
WOLLONGONG  
SUMMER SESSION 1990/91

Supplement to  
the University Calendar