# Undergraduate Courses 2002

Listing includes English Language and Foundation Studies, and Unipath courses

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A

AART1010 Foundations in Creative Arts
Unit Value: 10
This course is restricted to students enrolled in the Bachelor of Teaching/Bachelor of Arts degree.
Introduces students to the K-6 Creative Arts Syllabus strands of Music and Visual Arts. It will provide students with an understanding, knowledge and appreciation of skills, experiences, processes and outcomes in the Creative Arts and will aid students in the development of meaningful Creative Arts programs and activities suitable for pupils of Primary school age.
Assumed Knowledge: none

AART1020 Foundation in Creative Arts for Early Childhood
Unit Value: 10
Provides foundation studies and creative experiences in visual arts, drama and music for early childhood teacher education students. Provides students with an understanding, knowledge and appreciation of skills, experiences, processes and outcomes in the creative arts.
Assumed Knowledge: nil

AART1210 Art Theory: Modernism
Unit Value: 10
The core content of this course is the history of Modernism. However, since the course introduces students to the concepts and methods of art history and theory, topics selected from the diverse historical material will highlight the range of important issues that have concerned artists in all media this century. Particular emphasis will be placed on historical moments that inform contemporary trends.
Assumed Knowledge: Nil

AART1220 Postmodernism and After
Unit Value: 10
This course surveys the historical rejection of the artistic values of Modernism. Students will become familiar with recent critical developments of Postmodern art and gain an understanding of contemporary approaches to creating art and theorising its value and meaning.
Assumed Knowledge: Nil

AART1230 2-D Art: Introductory Concepts and Techniques
Unit Value: 10
Introduces students to diverse techniques, processes and practices across a range of two-dimensional creative disciplines. Relevant historical, theoretical, technical and conceptual dimensions within a contemporary framework are introduced and developed.
Assumed Knowledge: As an introductory course, no assumed knowledge applies.

AART1240 2D Art: Image, Media and Technology
Unit Value: 10
Consolidates students’ knowledge of diverse techniques, processes and practices across a range of two-dimensional creative disciplines. It affords greater depth in understanding and applying relevant historical, theoretical, technical and conceptual dimensions within a contemporary framework.
Assumed Knowledge: An introductory experience of 2D fine art disciplines or successful completion of AART1230.

AART1300 3D Art-Form and Space
Unit Value: 10
Introduces students to three-dimensional Philosophy, exploration and the many possibilities for creative expression in three-dimensional form. A wide range of techniques and processes highlights the significance of, and the differences between, three-dimensional studies and other art making activities within a contemporary framework. Foundation experiences embrace historical theoretical and conceptual dimensions.
Assumed Knowledge: As an introductory course, no assumed knowledge applies.

AART1310 3-D Art: Process and Practice
Unit Value: 10
Consolidates the student’s knowledge of 3-D Philosophy, exploration and the many possibilities 3-D studies offer for creative expression. The range of techniques and processes is extended to further highlight the significance of, and the differences between, 3-D Art and other art making activities within a contemporary framework. Foundation experiences which embrace historical, theoretical and conceptual dimensions are consolidated.
Assumed Knowledge: An introductory experience of 3D art disciplines or successful completion of AART1300

AART1400 Photomedia: Introductory Photomedia 1
Unit Value: 10
Introduces students to the range of techniques and processes of Photomedia and the many possibilities this course offers for creative expression within a contemporary framework. Foundation experiences embrace historical, theoretical, technical and conceptual dimensions.
Assumed Knowledge: As an introductory course, no assumed knowledge applies.

AART1410 Photomedia: Introductory Photomedia 2
Unit Value: 10
Consolidates students’ knowledge of the range of techniques and processes of Photomedia and the many possibilities this course offers for creative expression within a contemporary framework. Foundation experiences embrace historical, theoretical, technical and conceptual dimensions.
Assumed Knowledge: An introductory experience of Photomedia disciplines or successful completion of ART146

AART1920 Visual Arts Theory
Unit Value: 10
This course is restricted to students enrolled in the Bachelor of Teaching/Bachelor of Fine Art.
Supports and expands students’ introductory knowledge of Art History/Theory with an emphasis on the secondary school curriculum. Students will develop the ability to apply interpretive theories to art objects and develop the skill to critically write about works of art and their historical contextualisation.
Assumed Knowledge: ART1210 Modernism

AART2200 2-D Art: Colour and Experimental Media
Unit Value: 10
Emphasises experimentation and exploration of contemporary ideas and technical approaches used across a range of two-dimensional art practices. Independent thinking and problem solving of relevance to the contemporary practitioner is introduced.
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).

AART2210 2-D Art: Multi-media investigations
Unit Value: 10
Consolidates exploratory and experimental approaches to contemporary ideas, source imagery and creative applications across a range of 2-D art practices. Emphasis is placed on independent thinking and problem solving of relevance to the contemporary practitioner.
Assumed Knowledge: Successful completion of AART2200 (or equivalent).

AART2300 3D Art: Concept and Technology
Unit Value: 10
Builds on the student’s knowledge of three-dimensional practices in contemporary art. Set projects emphasises a range of 3-D processes which develop the student’s technical knowledge and skill acquisition. Conceptually based 3-D practices are linked to individual approaches and students independent artistic activity. Drawing will be seen as an integral aspect of 3-D activities as well as an important expression in its own right.
Assumed Knowledge: Assumed knowledge applies.

AART2310 3D Art: Evaluation and Analysis
Unit Value: 10
Develops students’ knowledge and understanding of three-dimensional art practices within a contemporary framework. Staff-directed and self-motivated projects extend the range of 3-D processes and expand students’ technical knowledge and skill acquisition. Conceptually based 3-D practices are linked to individual approaches and students independent artistic activity. Drawing will be seen as an integral aspect of 3-D activities as well as an important expression in its own right. Strong emphasis is placed upon experimentation and the exploration of ideas.
Assumed Knowledge: Assumed knowledge applies.

AART2400 Photomedia: Studio to Bureau
Unit Value: 10
Fosters critical evaluation of contemporary practice through an exploration of photomedia. Individual time commitments will determine depth of involvement.
Assumed Knowledge: Successful completion of AART1400 and AART1410 or equivalent

AART2410 Photomedia: Constructing with Light
Unit Value: 10
Enables students to develop technical and creative skills in the production of photographic works, combined with new technologies. The student will develop a greater understanding of the hybrid nature of combined technologies. Individual time commitment will determine depth of involvement.
Assumed Knowledge: Successful completion of AART2400 or equivalent
AART3000 Contemporary Art Issues  
Unit Value: 10  
The emphasis in this study is on the examination and critical analysis of topical  
thematic, issues in the contemporary visual arts. A series of audio-visual lecture  
presentations and forums will extend the student’s knowledge beyond the boundaries  
of particular studio disciplines and a focus on written articulation of argument will  
prepare the impending graduate for research in the visual arts.  
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses  
AART3020 Australian Art History  
Unit Value: 10  
Examines the basic historical perspectives underlying the construction of Australian  
art history. Students are given scope to develop a specialist interest in a particular  
historical period including recent art.  
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses  
AART3040 Historical Perspectives on Photomedia  
Unit Value: 10  
Examines the complex and wide-ranging historical and contemporary roles of  
photomedia within high-art and popular culture. Particular emphasis is given to the  
inter-relationships and interlocking developments of photography, film, video  
and digital imagery.  
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses  
AART3070 Drawing for Double Degree Students  
Unit Value: 10  
Introduces to Bachelor of Teaching/Bachelor of Fine Arts students drawing techniques  
in a wide variety of media, suitable for implementation into the secondary art syllabus.  
Emphasis will be given to the expansion of observational/perceptual, experimental  
and technical dimensions of the drawing process.  
Assumed Knowledge: Successful completion of 1000 level studio courses  
AART3120 The 3-D Arts Since 1900  
Unit Value: 10  
Explores the evolution of 3-D art in the twentieth century. It examines the major  
movements, tendencies and individual exponents that have characterised Modern,  
Postmodern and contemporary developments.  
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses  
AART3130 Museology and Professional Arts Practice  
Unit Value: 10  
Present an examination of the role of museums, galleries, public and commercial arts  
funding structures and how they interact with, and impact on, professional visual arts  
practice in Australia.  
Assumed Knowledge: Completion of minimum 20 units of 1000 level courses in  
Art Theory, History, Writing, English or related disciplines.  
AART3200 2-D Art: Sources and Presentations of Imagery  
Unit Value: 10  
Consolidates information, ideas, skills and working attitudes in preparation for  
developing individual projects and independent research in relation to 2-D art  
disciplines.  
Assumed Knowledge: Successful completion of AART2200 and AART2210 (or equivalent).  
AART3210 2-D Art: Selected Themes and Approaches  
Unit Value: 10  
Enables students to develop substantial self-selected projects which may be suitable  
for exhibition and/or publication.  
Assumed Knowledge: Successful completion of AART3200 (or equivalent).  
AART3220 Painting Concepts, Modes and Media  
Unit Value: 10  
Experimentation and exploration of ideas and technical approaches are emphasised.  
Students undertake more complex structured projects which refine technical and  
conceptual competence in the light of contemporary painting practice, introducing  
them to the development of individual creative attitudes and approaches.  
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).  
AART3230 Interdisciplinary Painting  
Unit Value: 10  
Takes a more focussed view of the possibilities of image making in the context of an  
interdisciplinary approach to painting. An experimental approach to media is used to  
discover the limits and extensions possible so that students become confident in  
techniques leading to a more selective and personal use of creative painting media.  
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).  
AART3240 Photomechanical Methods in Printmaking  
Unit Value: 10  
Emphasises expansion of student understanding of the use of light as a means of  
creating images in etching, lithography and silkscreen printing. The development of  
appropriate imagery generated photographically, digitally or manually is integral to  
this course. There is an emphasis on the print in a contemporary context, the  
development of critical skills and studio-based knowledge of sound printmaking  
practices.  
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).  
AART3250 The Print as Object  
Unit Value: 10  
Emphasises consideration of the three dimensional potential of printmaking and  
extension of student understanding of both traditional and emerging print media.  
The development of appropriate imagery and form is integral to the subject and its  
extension to artists’ books, printing on ceramic, sculptural form and installation  
formats. The concept of the print as object is espoused in a contemporary context along  
with the development of critical skills and relevant studio practices.  
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).  
AART3300 3-D Art: Aesthetics and Expression  
Unit Value: 10  
Consolidates information, ideas and working attitudes in preparation for more  
individual projects and working practices. Students develop critical faculties for  
appraising contemporary art issues in the work of recognised 3-D artists and in their  
own work. The student will be expected to develop a personal vision and direction  
through a body of self-directed work supported by personal research and contact with  
studio staff. Emphasis will be placed upon the development of individual student  
concepts within a framework of specific studios, methods and associated research.  
Assumed Knowledge: Successful completion of AART2300 and AART2310  
AART3310 3-D Art: Professional Practice  
Unit Value: 10  
Fosters sustained investigation, experimentation and analysis of the student’s creative  
development within a three-dimensional framework. With the encouragement of  
teachers, students progressively assume greater responsibility for a self-directed  
program that uniquely expresses their concerns and which can be contextualised  
within the broader framework of contemporary 3-D art practice. It is expected that the  
student will develop abilities to discuss contemporary 3-D issues in relation to  
developments in their own work. Students are prepared for post graduate studies in 3-  
D Art and are encouraged to explore avenues for professional practice.  
Assumed Knowledge: Successful completion of AART3000  
AART3320 Site Specific Sculpture  
Unit Value: 10  
Deals directly with the issues related to mixed media, multi-media installation and  
environmental artworks and offers many opportunities for creative expression within a  
contemporary framework. Through the use of set and self-directed projects the  
workshops will emphasise individual development and preference in 3-D studies.  
Mixed and multi-media installation and environmental art works are embraced as  
contemporary Sculpture activity. Inter-disciplinary techniques and processes are  
explored and offer opportunities for experimentation. Drawing is seen as an integral  
aspect of 3-D artwork.  
Assumed Knowledge: Successful completion of AART1300 and AART1310  
AART3330 Multi-Media Sculpture  
Unit Value: 10  
Consolidates the student’s knowledge of the broad range of techniques and processes  
of contemporary Sculpture practice and offers opportunity for students to expand this  
knowledge through the use of traditional and contemporary processes. New  
technologies provide opportunities for experimentation and creative expression  
within a contemporary framework. Sculpture experiences will embrace historical,  
technical, theoretical and conceptual dimensions. The course aims to build on the  
student’s knowledge of moulding and casting processes, projects are linked to 3-D  
Art concepts and philosophy.  
Assumed Knowledge: Successful completion of AART1300 and AART1310  
AART3340 Paper as Form  
Unit Value: 10  
Introduces students to the range of techniques and processes of using paper media 3-  
dimensionally and the many possibilities it offers for creative expression within a  
contemporary framework. Experiences will embrace historical, theoretical, technical  
and conceptual dimensions.  
Assumed Knowledge: Successful completion of AART1300 and AART1310  
AART3350 Soft Sculpture  
Unit Value: 10  
Introduces students to the range of techniques and processes associated with the  
production of soft sculpture and the many possibilities it offers for creative expression  
within a contemporary framework. Experiences will embrace historical, theoretical,  
technical and conceptual dimensions.  
Assumed Knowledge: Successful completion of AART1300 and AART1310
AART3360 Experimental Ceramic Techniques
Unit Value: 10
Fosters creative work by students that uniquely expresses their conceptual concerns. This course aims to build on students knowledge of ceramic forming and finishing techniques through set projects and/or approved student initiated projects. Emphasis is placed in the utilisation of experimental processes and techniques of developing clays, forming methods and finishing.
Assumed Knowledge: Successful completion of AART1300 and AART1310

AART3370 Ceramic Production Techniques
Unit Value: 10
Builds on the students' knowledge of ceramic techniques through set projects and/or approved student initiated activities. Set projects emphasise limited production techniques for creating similar forms or identical forms repeated. Emphasis is placed on experimentation and the exploration of ideas.
Assumed Knowledge: Successful completion of AART1300 and AART1310

AART3400 Photomedia: Research and Practice
Unit Value: 10
Consolidates information, ideas and working attitudes in preparation for more individual projects and working practices.
Assumed Knowledge: Successful completion of AART2400 and AART2410 or equivalent

AART3410 Photomedia: Portfolio Production
Unit Value: 10
Consolidates information, ideas and working attitudes in preparation for more individual projects and working practices. The student will manufacture a portfolio of work that is appropriately researched and presented.
Assumed Knowledge: Successful completion of AART3400 or equivalent

AART3420 Digital Photomedia
Unit Value: 10
Students will produce digital work with research and creative development in the digital Photomedia area. The student will, through independent research and critiques in digital media, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3430 Alternative Photomedia
Unit Value: 10
Students will produce work in alternative media with research and creative development in the non silver Photomedia area. The student will, through independent research and critiques in digital media, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3440 Colour/Studio Photomedia
Unit Value: 10
Students will produce work in colour photography with research and creative development in studio lighting Photomedia area. The student will, through independent research and critiques in digital media, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3450 Applied Photomedia
Unit Value: 10
Students will produce work in colour photography with research and creative development in studio lighting Photomedia area. Students will develop a sound working knowledge of medium and large format photograph. The students will expose transparency film and establish a working practice in exposure and methods of film manipulation. The student will, through independent research and critiques, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3460 Hybrid Photomedia
Unit Value: 10
Students will produce work in hybrid media with research and creative development in digital Photomedia area. Hybrid media will enable the students to work in mixed media processes that are derived from analogue sources and are translated and manipulated through digital media. The student will, through independent research and critiques, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3470 Traditional Photomedia
Unit Value: 10
Students will produce work in traditional photographic media with research and creative development in large format camera work. Traditional Photomedia will enable the students to work in silver media processes that are standard in contemporary photography. The student will, through independent research and critiques, foster self reflective work. Students will produce documentation of methods and techniques that will enable the production of high quality art work and vocational material. Students will gain an awareness of the ethical and philosophical concerns of Photomedia.
Assumed Knowledge: AART1400 and AART1410 or equivalent

AART3500 Directed Study
Unit Value: 10
This course is offered as an elective to students in the fields of 2-D Art, 3-D Art and Photomedia Art.
To facilitate access to workplace conditions through off campus placement, on campus specialised media study and research. The study is self initiated and directed by the student. The process of concept development will be explored through related technical and aesthetic research associated with industrial and commercial environments. Students may utilise on campus facilities to gain intensive work experience in specialised, technical and theoretical aspects of studio areas. Internal mode of delivery - Self directed by student based on a written proposal. With mid semester review requirements.
Assumed Knowledge: 1000 and 2000 level BFA courses

AART3780 Experimental Drawing
Unit Value: 10
Emphasises contemporary conceptual and creative directions available to drawing practitioners. Students are exposed to and challenged by a series of studio and research-based projects which emphasise the limitations and latent opportunities within established drawing habits and conventional practices.
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).

AART3790 Observational and Expressive Drawing
Unit Value: 10
Emphasises the expansion of perceptual, observational and technical dimensions of the drawing process. Students undertake a series of studio-based exercises and projects which explore and refine skills and understanding in relation to diverse approaches used in contemporary drawing practice. Individual interpretations and creative attitudes are further developed within the framework of these assignments.
Assumed Knowledge: Successful completion of AART1230 and AART1240 (or equivalent).

AART4110 Honours A
Unit Value: 20
The course is a component of the Honours program in the Bachelor of Fine Art, and comprises a combination of advanced studio artwork in a selected area of specialisation including Ceramics, Fibres/Textiles, Painting, Photography, Printmaking, Sculpture and written work or advanced written work in Theory. It is designed to allow students to develop a high professional standard in studio research, production and exhibition or a major theory research project. The course is studied in conjunction with ART412, ART413 & ART414 as together the four components comprise the Honours program. The course is studied through internal mode.
Assumed Knowledge: BFA or equivalent

AART4120 Honours B
Unit Value: 20
The course is a component of the Honours program in the Bachelor of Fine Art, and comprises a combination of advanced studio artwork in a selected area of specialisation including Ceramics, Fibres/Textiles, Painting, Photography, Printmaking, Sculpture and written work or advanced written work in Theory. It is designed to allow students to develop a high professional standard in studio research, production and exhibition or a major theory research project. The course is studied in conjunction with ART411, ART413 & ART414 as together the four components comprise the Honours program. The course is studied through internal mode.
Assumed Knowledge: BFA or equivalent
AART4130 Honours C
Unit Value: 20
The course is a component of the Honours program in the Bachelor of Fine Art, and comprises a combination of advanced studio artwork in a selected area of specialisation including Ceramics, Fibres/Textiles, Painting, Photography, Printmaking, Sculpture and written work or advanced written work in Theory. It is designed to allow students to develop a high professional standard in studio research, production and exhibition or a major theory research project. The course is studied in conjunction with ART411, ART412 & ART414 as together the four components comprise the Honours program. The course is studied through internal mode. 
Assumed Knowledge: BFA or equivalent

AART4140 Honours D
Unit Value: 20
The course is a component of the Honours program in the Bachelor of Fine Art, and comprises a combination of advanced studio artwork in a selected area of specialisation including Ceramics, Fibres/Textiles, Painting, Photography, Printmaking, Sculpture and written work or advanced written work in Theory. It is designed to allow students to develop a high professional standard in studio research, production and exhibition or a major theory research project. The course is studied in conjunction with ART411, ART412 & ART414 as together the four components comprise the Honours program. The course is studied through internal mode. 
Assumed Knowledge: BFA or equivalent

ABHS050 Community and Research
Unit Value: 10
ABHS050 Community and Research will develop a foundation in which students can work in partnership with Aboriginal Communities in the area of Health. It aims to integrate and develop skills in the area of community and interprofessional interactions and identifying and investigating community needs. ABHS050 Community and Research provide students with an understanding and experience in community projects. It also provides students with at least one personal and local community support network and the opportunity to work within culturally relevant contexts. 
Contact: 3 hours per week 
Assumed Knowledge: Nil

ABHS051 Professional Practice 1
Unit Value: 10
ABHS051 Professional Practice 1 provides students with a knowledge base on which to build a future in one of the health professions. It provides knowledge and experience of those core professional skills which are related to work in the health professions. 
Contact: 3 hours per week 
Assumed Knowledge: Nil

ABHS052 Learning Skills
Unit Value: 10
Designed to provide Aboriginal and Torres Strait Islander students with the learning skills necessary for tertiary study. 
Contact hours: 3 hours per week 
Assumed Knowledge: Nil

ABHS053 Professional Practice 2
Unit Value: 10
ABHS053 Professional Practice 2 builds on the knowledge acquired in ABHS051 Professional Practice 1. Using a combination of guest speakers, lectures and visits to health settings this subject develops the students’ awareness of theoretical, scientific and practical health based knowledge. 
Contact: 4 hours per week 
Assumed Knowledge: ABHS051 Professional Practice 1

ABOR1110 Introduction to Aboriginal Studies
Unit Value: 10
Investigates the basic concept of land ownership and the devastating effects of dispossession and assimilation. A general background is provided in issues such as land rights, education, health, welfare, housing and employment. 
Assumed Knowledge: Nil

ABOR1210 Aboriginal Cultural Studies I
Unit Value: 10
Investigates the basic concept of land ownership and the devastating effects of dispossession and assimilation. A general background is provided in issues such as land rights, education, health, welfare, housing and employment. The principal teaching style will be through seminar studies. 
Assumed Knowledge: Nil

ABOR1220 Aboriginal Cultural Studies II
Unit Value: 10
Gives an insight into the significance of the ‘Dreaming’ and how this relates to Aboriginal kinship systems and explores the philosophical basis of traditional Aboriginal societies examining such areas as the life cycle, kinship, control, economic systems and lifestyle practices. 
The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan. 
Assumed Knowledge: ABOR1210 or equivalent broad background in Aboriginal studies/experiences.

ABOR1330 Traditional Aboriginal Society
Unit Value: 10
Explores the philosophical basis of traditional Aboriginal societies examining such areas as the life cycle, kinship, control, economic systems and lifestyle practices. 
Assumed Knowledge: Nil

ABOR1340 Aboriginal Health Past and Present
Unit Value: 10
Provides students with an in depth understanding of the impact of colonization on Aboriginal society and of how the invasion and dispossession of Aboriginal land affected the health status of Aboriginal peoples. This course will focus on the cultural and spiritual spheres of Aboriginal society present and past. Within this course the role of bush food/medicines will be explored in relation to the health and well being of Aboriginal society. 
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110.

ABOR1350 Aboriginal Health Practices
Unit Value: 10
Explores why Aboriginal people remain the least healthy of all Australians. The course provides an overview of government policies that have been suggested as effective interventions for improvement in Aboriginal health. It explores the legacy of past policies and Governments Acts and identifies the impact of specific health issues/ diseases in contemporary Aboriginal society and describes the impact of these diseases on the most vulnerable groups in Aboriginal society. It will be taught in the internal mode of delivery. 
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110

ABOR1360 Aboriginal Leadership
Unit Value: 10
Develops an understanding of leadership within Aboriginal communities in Australia. The course examines the complex nature of leadership and how it can often lead to misunderstanding and confusion by “outsiders”. The course focuses on historical, social, economic, and cultural issues that have affected how Aboriginal communities have dealt with leadership. It will examine contemporary leaders and authority issues. The effects of various imposed political structures and legislation on leadership will also be assessed. The course will be delivered by oration and talking circles. Course will be taught in the internal mode of delivery. 
Assumed Knowledge: Nil

ABOR1370 Working with Aboriginal Communities
Unit Value: 10
Develops an understanding of how Aboriginal communities operate in contemporary Australia. The course will provide insight for those wishing to work with Aboriginal communities. The course examines the structure and nature of Aboriginal communities. A holistic approach is used in assessing how political, social, and economic dynamics, as well as historical influences and cultural differences brought about by colonisation, have affected contemporary communities. The course deals with the process of decision making, protocols, and leadership issues as an integral part of dealing with, and within, modern Aboriginal communities. It will be delivered by oration and talking circles. Course will be taught in the internal mode of delivery. 
Assumed Knowledge: Nil

ABOR1380 Aboriginal Land Rights
Unit Value: 10
Develops an understanding of the significance of land/water and the seas to Aboriginal peoples and Torres Strait Islanders. It will trace the historical and spiritual connection for Indigenous peoples prior to the invasion of Australia as well as the protection of it since. This course will investigate the concepts of Land Rights and Native Title and track them historically in Australia as well as internationally. The impact of both on present day communities, Indigenous and non-Indigenous will be discussed.

Assumed Knowledge: Nil
ABOR1390 Human Rights and Aboriginal Peoples
Unit Value: 10
Focuses on defining and understanding the concept of a Human Rights Commission and Indigenous responses to this concept in an Australian context and internationally. It will also look at an introduction to the United Nations System, specifically as it relates to Indigenous peoples and Australia as a nation state. The course will include information about complaints processes, participation in the charter-based system, and meetings such as the United Nations Working Group on Indigenous Populations. The right of self-determination will be examined in the context of international law as well as the concept of genocide. This unit will also look at the role of non-governmental organisations, the role of media, lobbying and negotiation in the defense of human rights.
Assumed Knowledge: Nil

ABOR1410 Academic Communication
Unit Value: 10
Designed to provide the fundamentals in academic written communication styles and an understanding of the purpose and use of these styles in a range of academic assessment tasks. The course caters for individual needs of students by providing a personal contractual learning base. Students will negotiate their personalized program with lecturers to achieve competency in the various academic communication skills encountered in the program of study.
Assumed Knowledge: N/A

ABOR1420 Communicating with Aboriginal People
Unit Value: 10
Designed to increase the base level knowledge and understanding of the most effective means of communication with Aborigines and their communities. The course covers an introduction of communication processes from traditional to contemporary settings. Processes surrounding Aboriginal protocols, decision making, community management, communication styles including verbal, non-verbal, graphical, performance are studied. The course also extends its exploration into the images of Aborigines in contemporary media. The course utilizes oration and talking circle.
Assumed Knowledge: ABOR1410 or equivalent background in Aboriginal or Indigenous studies and/or experiences.

ABOR2100 Aboriginal Cultural Studies III
Unit Value: 10
Examines the concepts of comparative racism and the models used in analysing cultural contact. Students will explore the principles underlying consultation in Australia and the nature of the conquest by Europeans. A detailed look at the frontier will be undertaken by using the Newcastle/Hunter area in particular as well as other case studies.
Mode of delivery is internal, Callaghan.

ABOR2110 Aboriginal Cultural Studies IV
Unit Value: 10
Examines, in depth, the policies and practices of the Protection/Segregation Era and the impact these policies had and still have on contemporary Aboriginal Communities. A detailed study of the Protection Acts and the stolen generation will provide the core of this course.
Mode of delivery is internal, Callaghan.

ABOR2120 Communication Studies III
Unit Value: 10
Contains activities such as editing, photography and final production skills taught within a practical workshop format. Also examines copyright and intellectual property rights issues in the media.
Contact hours: 3 hours per week
Assumed Knowledge: ABOR123, ABOR124

ABOR2130 Communication Studies IV
Unit Value: 10
Examines the development of indigenous media organisations, their needs, ownership and community outcomes. This course will make use of government and organisational documents as well as the expertise currently available in the Aboriginal and media communities.
Assumed Knowledge: ABOR1230, ABOR1240, ABOR1220

ABOR2230 Contact Aboriginal Society I
Unit Value: 10
Examines the concepts of comparative racism and the models used in analysing cultural contact and explores the principles underlying consultation in Australia and the nature of the conquest. A detailed look at the frontier will be undertaken by using the Newcastle/Hunter area in particular and other case studies.
Assumed Knowledge: ABOR1130

ABOR2240 Contact Aboriginal Society II
Unit Value: 10
Examines in depth the policies and practices of the Protection/Segregation Era and the impact these policies had and still have on contemporary Aboriginal Communities. A detailed study of the Protection Acts and the stolen generation will provide the core of this course.
Assumed Knowledge: ABOR1110, ABOR1130, ABOR2230

ABOR2250 Comparative Indigenous Studies I
Unit Value: 10
Gives students the opportunity to develop a greater understanding of Aboriginal and Native American culture and history in both the traditional and contemporary setting. Like Aboriginal Australians, native Americans are diverse and dynamic groups spiritually attached to their lands. The course promotes and extends the understanding of knowledge of Aboriginal and Native American experience. The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan/Campus.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1210 or ABOR1110.

ABOR2340 Abor Health::Causes & Burden of Ill Health
Unit Value: 10
Provides an overview of the major causes of mortality and morbidity for Australia’s Aboriginal and Torres Strait Islander peoples. Specific health issues affecting Australia’s Aboriginal and Torres Strait Islander peoples will be explored including the nature, significance and the factors contributing to the cause of each of these specific health issues. The significance of Community empowerment in the healing process will be discussed as a health prevention strategy.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1210 or ABOR1110. ABOR1340, Aboriginal Health, Past and Present and ABOR1350, Aboriginal Health Practices, or equivalent are also recommended.

ABOR2350 Abor Health:Changing Patterns of Illness & Disease
Unit Value: 10
Investigates Aboriginal health in a public health context. It will explore the different methods of assessing health and the acceptability of these approaches to Aboriginal communities. Aboriginal health prevention and intervention strategies will be investigated in terms of changing patterns of Aboriginal health.
Mode of delivery is internal, Callaghan.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1210 or ABOR1110. Also recommended is a course of study and/or experience equivalent to ABOR1340, ABOR1350, and ABOR2340.

ABOR2380 Interpreting the Law:Abor Customary Law & West Law
Unit Value: 10
Introduces students to the key concepts of Aboriginal Customary Law, and Aboriginal experiences and interpretations of western law as applied in an Aboriginal context. The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110.

ABOR2390 Decolonisation
Unit Value: 10
Explores the process and framework by which Indigenous academics and researchers are currently beginning to address social issues. This framework embodies decolonisation, self-determination and social justice. This course analyses the process and impact of colonisation on Indigenous Australians, specifically, eurocentrism and the resulting representation of Aboriginal Australians, leading to an understanding of the reality of social justice for Aboriginal Australians today. The course also explores the intersection of differing world views; both Indigenous and non-Indigenous. The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110 and study and/or experience equivalent to ABOR2380.

ABOR2470 Negotiation in an Aboriginal Context
Unit Value: 10
Allows students the opportunity to learn negotiation skills and strategies from a purely Aboriginal perspective. Students will examine the cultural and historical aspects of the topic as well as revisit the issues of leadership in Aboriginal communities. Students will be given the opportunity to understand the traditional decision making process and the role of the Indigenous chair. The course will be delivered by lecturers and talking circles.
Mode of delivery is internal, Callaghan.
*Talking circles are designed to promote knowledge sharing as a collaborative venture and are not dissimilar to tutorials.
Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110 and study and/or experience equivalent to ABOR1370 and ABOR1360.
ABOR2250  Planning in Aboriginal Communities  
Unit Value: 10

Designed to help students develop an understanding of how Aboriginal communities deal with the complex issue of planning in Australia. The course examines the structure and nature of Aboriginal communities in a holistic manner and explores the ways in which the planning process has become an alien process through colonization and erosion of traditional economic bases. It will also examine the emergence of the new breed of Aboriginal consultants, advisors, contemporary planning philosophies and practices, and emerging planning processes. The course will be conducted using lectures and “talking circles” discussions.

Mode of delivery is internal, Callaghan

Assumed Knowledge: Students need a basic understanding of Aboriginal society equivalent to ABOR1110 and study/or experience equivalent to ABOR1370, ABOR1360 and ABOR2470.

ABOR3010  Aboriginal Cultural Studies V  
Unit Value: 10

Examines contemporary Aboriginal people and their communities. Important issues will be addressed such as Aboriginal education, housing, health and welfare and their relation to Aboriginal people today.

Assumed Knowledge: ABOR1210, ABOR1220, ABOR1200, ABOR2110

ABOR3020  Communication Studies V  
Unit Value: 10

Focuses on adult education principles and program design. Students will be directed in the skills of curriculum consultation, implementation and evaluation.

Assumed Knowledge: ABOR1230, ABOR1240, ABOR2120, ABOR2130

ABOR3080  Indigenous Research & Cognitive Imperialism  
Unit Value: 20

The course provides students with an understanding of the relationship between Indigenous knowledges and Eurocentric thought and the impact of these on research conducted on Indigenous lands, waters and territories. The program explores Indigenous peoples’ experiences of research to-date and analyses writings of Indigenous peoples critical of western traditions of research. It culminates with a discussion of the concept of an Indigenous research methodology and the idea of an Indigenous research agenda. The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan.

Assumed Knowledge: Students need an understanding of Aboriginal society and culture equivalent to ABOR1210/ABOR1110, ABOR1220/ABOR1330, ABOR210/ABOR2220, ABOR2110/ABOR2240 and ABOR3010/ABOR312.

ABOR3120  Contemporary Aboriginal Society I  
Unit Value: 10

Looks at the effects of assimilation policy on contemporary Aboriginal communities. An in depth study will be done on Aboriginal education, health, employment and housing. The recommendations from the Royal Commission into Aboriginal Deaths in Custody will be considered. The history of the Land Rights movement and the recent High Court rulings on Native Title will be examined.

Assumed Knowledge: ABOR1110, ABOR1330, ABOR2230, ABOR2240 or ABOR2250

ABOR3250  Comparative Indigenous Cultures 2  
Unit Value: 20

Allows students to explore an Indigenous culture outside Australia. Through comparative analysis students will examine distinctions and similarities between Indigenous people and communities throughout the world. Students will utilise the growing network of Indigenous internet communities and sites. Formal links with other Indigenous Higher Education Units provide a unique opportunity to share cross-Indigenous cultural experiences, histories, knowledge and philosophy. This will enable students to have actual interactive contact with the peoples of other Indigenous cultures. The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan.

Assumed Knowledge: Students need an understanding of Aboriginal society and culture equivalent to ABOR1210/ABOR1110, ABOR1220/ABOR1330, ABOR210/ABOR2230, ABOR2110/ABOR2240 and ABOR3010/ABOR312.

Students will also be required to have study/experience equivalent to a 2000 level course in comparative Indigenous studies such as ABOR2250.

ABOR3500  Aboriginal Education, Policies and Issues  
Unit Value: 10

Addresses Aboriginal education and social policies; cultural differences and related pedagogies. The course maintains guidelines for including Aboriginal Studies and Aboriginal perspectives into curriculum. The course also includes teaching strategies for inviting Aboriginal participation and anti-racism strategies.

Assumed Knowledge: Nil

ABOR4010  Aboriginal Studies Honours I  
Unit Value: 20

ABOR4010 must be studied in conjunction with ABOR4020, ABOR4030 and ABOR4040, which together comprise the full Aboriginal Studies Honours program. Honours in Aboriginal Studies consists of course work and an original research project.

The thesis embodies an original investigation on an approved topic and requires the student to demonstrate competence in negotiating with Aboriginal communities/people, culturally appropriate fieldwork, the collection, analysis and interpretation of data and the presentation of results to both the community/organisation/people involved in the research project and the University.

The principal teaching style will be through seminar studies and thesis supervision. Mode of delivery is internal, Callaghan.

Assumed Knowledge: At least a credit average performance in the Bachelor of Aboriginal Studies or at least a credit average in Aboriginal Studies courses as a major sequence for the Bachelor of Arts. Students must have qualified for admission to the Bachelor of Aboriginal Studies, Bachelor of Arts, or equivalent degree.

International students will be considered eligible for admission to the Honours program, on the basis of completion of an appropriate tertiary qualification, equivalent to a Bachelor’s degree, in a related area.

ABOR4020  Aboriginal Studies II  
Unit Value: 20

ABOR4010 must be studied in conjunction with ABOR4020, ABOR4030 and ABOR4040, which together comprise the full Aboriginal Studies Honours program. Honours in Aboriginal Studies consists of course work and an original research project.

The thesis embodies an original investigation on an approved topic and requires the student to demonstrate competence in negotiating with Aboriginal communities/people, culturally appropriate fieldwork, the collection, analysis and interpretation of data and the presentation of results to both the community/organisation/people involved in the research project and the University.

The principal teaching style will be through seminar studies and thesis supervision. Mode of delivery is internal, Callaghan.

Assumed Knowledge: At least a credit average performance in the Bachelor of Aboriginal Studies or at least a credit average in Aboriginal Studies courses as a major sequence for the Bachelor of Arts. Students must have qualified for admission to the Bachelor of Aboriginal Studies, Bachelor of Arts, or equivalent degree.

International students will be considered eligible for admission to the Honours program, on the basis of completion of an appropriate tertiary qualification, equivalent to a Bachelor’s degree, in a related area.

ABOR4030  Aboriginal Studies Honours III  
Unit Value: 20

ABOR4030 must be studied in conjunction with ABOR4010, ABOR4020 and ABOR4040, which together comprise the full Aboriginal Studies Honours program. Honours in Aboriginal Studies consists of course work and an original research project.

The thesis embodies an original investigation on an approved topic and requires the student to demonstrate competence in negotiating with Aboriginal communities/people, culturally appropriate fieldwork, the collection, analysis and interpretation of data and the presentation of results to both the community/organisation/people involved in the research project and the University.

The principal teaching style will be through seminar studies and thesis supervision. Mode of delivery is internal, Callaghan.

Assumed Knowledge: At least a credit average performance in the Bachelor of Aboriginal Studies or at least a credit average in Aboriginal Studies courses as a major sequence for the Bachelor of Arts. Students must have qualified for admission to the Bachelor of Aboriginal Studies, Bachelor of Arts, or equivalent degree.

International students will be considered eligible for admission to the Honours program, on the basis of completion of an appropriate tertiary qualification, equivalent to a Bachelor’s degree, in a related area.
ABOR4040 Aboriginal Studies Honours IV
Unit Value: 20
ABOR4040 must be studied in conjunction with ABOR4010, ABOR4020 and ABOR4030, which comprise the full Aboriginal Studies Honours program. Honours in Aboriginal Studies consists of course work and an original research project.

The thesis embodies an original investigation on an approved topic and requires the student to demonstrate competence in negotiating with Aboriginal communities/people, culturally appropriate fieldwork, the collection, analysis and interpretation of data and the presentation of results to both the community/organisation/people involved in the research project and the University.

The principal teaching style will be through seminar studies and thesis supervision. Mode of delivery is internal, Callaghan.

Assumed Knowledge: At least a credit average performance in the Bachelor of Aboriginal Studies or at least a credit average in Aboriginal Studies courses as a major sequence for the Bachelor of Arts. Students must have qualified for admission to the Bachelor of Aboriginal Studies, Bachelor of Arts, or equivalent degree. International students will be considered eligible for admission to the Honours program, on the basis of completion of an appropriate tertiary qualification, equivalent to a Bachelor's degree, in a related area.

ACFI1010 Financial Accounting
Unit Value: 10
Explains financial accounting as it is used in the business world and examines the primary conventional accounting methods of specific business organisations such as sole traders and partnerships. The advantages and disadvantages of these organisations are also considered.

Assumed Knowledge: Nil

ACFI1020 Financial Management
Unit Value: 10
Develops skills in financial management decision making using finance and management accounting concepts. It should enable students to make decisions on operating leverage, capital structure (including alternative types and sources of finance), and optimal asset structures. They should be able to analyse the effects of alternative cost behaviour patterns and costing systems upon pricing and cost management decisions.

Assumed Knowledge: ACFI1010 - Financial Accounting

ACFI2010 Corporate Accounting and Reporting
Unit Value: 10
Deals with accounting and reporting for corporate entities, including the required methods for the preparation of articulated financial records for a corporation’s capital and operating and acquisition activities, leading to the preparation of published financial statements as required under the provisions of the Corporations Law, Australian Accounting Standards and the Australian Stock Exchange listing requirements.

Assumed Knowledge: ACFI1010 - Financial Accounting

ACFI2020 Corporate Financial Regulation & Control
Unit Value: 10
Analyses the forces underlying the regulatory mechanisms and their impact on the structure and content of Australian corporate financial reporting, as well as the alternative proposals for the restructuring of accounting.

Assumed Knowledge: ACFI2030 - Corporate Accounting and Reporting

ACFI2030 Costing Principles And Methods
Unit Value: 10
Examines the theory and application of traditional and modern activity-based costing systems. Topics include cost concepts and classification, product costing methods and issues; cost allocation, standard costing theory; variable costing and activity based costing.

Assumed Knowledge: ACFI1020

ACFI2040 Planning, Control And Performance Evaluation
Unit Value: 10
Presents the management accounting system as having both an informational and motivational role. Information in these systems is used for decision making. In the Australian context, the information is required to support the preparation of management information systems, decision making, and recording of transactions and events.

Assumed Knowledge: ACFI2050, ECON1100, ECON1110 and one of STAT1050, STAT1200, ECON1130, or a 10 unit 1000 level Mathematics course.

ACFI2080 Corporate Financial Decision Making
Unit Value: 10
Provides an introduction to financial management theory and practice, primarily from a corporate perspective, including financial management objectives, principles of capital investment, project evaluation techniques, capital structure decisions, financing techniques, dividend policy, working capital management and elements of risk management.

Assumed Knowledge: ACFI2070 - Business Finance

ACFI2100 Financial Principles for Business
Unit Value: 10
Not available to students enrolled in the Bachelor of Commerce or those who have completed ACFI1020.

Examines an understanding of financial information for business managers, so that it can be used effectively to make optimal decisions. Fundamental aspects of management accounting and finance are explained to enable non-accounting managers to make effective use of organisational resources.

Assumed Knowledge: ACFI1100 - Financial Accounting

ACFI2200 Introduction to Financial Planning
Unit Value: 10
Aims to provide a broad overview of the nature and scope of individual financial planning in the Australian context. This course provides specific coverage of the major components necessary for the development of individual financial plans. Emphasis is market orientated and supported by conceptual theory.

Assumed Knowledge: ACFI1101

ACFI2220 ACCOUNTING INFORMATION SYSTEMS
Unit Value: 10
The pervasiveness of technology is altering the nature of the accounting profession. Accountants must be able to use technology tools effectively and efficiently. This course equips students to use information and tools provided by accounting information systems (AISs), enterprise resource planning (ERP) systems and electronic commerce systems. The course also exposes students, in some depth, to the popular accounting software MYOB. Control and audit issues associated with new forms of business information processes are also emphasised.

The course is taught jointly by the Department of Accounting and Finance and the School of Management.

Assumed Knowledge: ACFI101, ACFI102, ACFI201 and INFO101.

ACFI2240 Intro to Spreadsheet Modelling in Financial Mgt
Unit Value: 10
For about 20 years, since the emergence of PCs, spreadsheet models have been the dominant vehicles for professionals in the business world to implement their financial knowledge. Yet even today, most Finance texts rely on calculators as the primary tool and have little coverage of how to build spreadsheet models. This course equips students to build financial models in Excel. Students build models themselves (active learning), rather than using canned “templates” (passive learning). The basic building blocks of financial analysis are developed in a spreadsheet format which allows the computational intricacies involved in financial modelling to be understood. It is often the case that the fullest understanding of the models comes by calculating them, and Excel is one of the most accessible and powerful tools available for this purpose.

Assumed Knowledge: ACFI1010, INFO1010 and STAT1105 or ECON1130

ACFI3010 Financial Accounting Theory Construction
Unit Value: 10
Presents approaches to the formulation of an accounting theory, dealing with features, similarities, conflicts between traditional regulatory events, behavioural human information processing, predictive and positive theory.

Assumed Knowledge: ACFI2020

ACFI3020 Reconstruction of Accounting
Unit Value: 10
Evaluates financial accounting as a mechanism for generating useful financial data. The ongoing debate involving a conceptual framework is used as a springboard for explaining a number of issues around which it might appear financial accounting is not generating useful data.

Assumed Knowledge: ACFI2020

ACFI3030 Accounting and Decision Support Systems
Unit Value: 10
Examines the nature and use of accounting information within organisations. General parameters established by reference to alternate organisations structure and decision processing theories are used to evaluate the requirements of accounting in major managerial activities.

Assumed Knowledge: ACFI2040

ACFI3050 Auditing Theory And Method
Unit Value: 10
Introduces the major conceptual and technical aspects of auditing. While emphasis is on financial statement audits conducted under the Corporations Law, students also receive an insight into other types of audit.

Assumed Knowledge: ACFI2010
ACFI3070  Issues in Taxation  
Unit Value: 10

Exposes students to more advanced issues relating to the applications of the Income Tax Assessment Act and related legislation. The emphasis of learning will be on solving more complex tax problems and the communication of technical tax information to client taxpayers. The course covers advanced issues with Capital Gains Tax, advanced issues with Fringe Benefits Tax, Trading Stock, State Taxes, Taxation of Primary Producers, Authors, Inventors & Sportspersons, Taxation of Superannuation Funds, International Taxations, Tax Avoidance, Tax Planning, Objectives and Collection of Tax and Penalties.  
Assumed Knowledge: ACFI3170 - TAXATION A

ACFI3110  Accounting And Small Enterprise  
Unit Value: 10

Deals with the analysis of finance and accounting concepts and procedures in an environment of small, privately held enterprises. Topics include characteristics of small enterprises affecting the use of financial information, financial reporting issues, managerial decision considerations and financing options.  
Assumed Knowledge: 30 units at 200 level from Department of Accounting & Finance

ACFI3120  International Accounting  
Unit Value: 10

Offers analysis and evaluation of the major issues in international accounting, areas of international comparability and conflict and institutional and other factors driving national practices. Special focus will be the influence of environmental, cultural, political and managerial factors on the development of accounting theory and practice.  
Assumed Knowledge: ACFI2010 - Corporate Accounting and Reporting

ACFI3130  Investments  
Unit Value: 10

Covers analysis of derivative securities. Students develop their own spreadsheet templates for binomial option pricing, Black-Scholes, volatility estimation, put-call parity for stock options, currency options and the like.  
Assumed Knowledge: ACFI208, INFO101

ACFI3140  International Finance  
Unit Value: 10

Deals with advanced aspects of corporate financial management in an international setting, currency loans hedged with options, real exchange rates.  
Assumed Knowledge: ACFI2070 - Business Finance

ACFI3160  Beh, Org And Social Aspects Of Accounting  
Unit Value: 10

Deals with the current status and historical development of selected issues in Management Accounting. Content includes a study of the accounting issues associated with various organisational structures and processes and a study of behavioural and social considerations in the use of accounting information.  
Assumed Knowledge: ACFI2040

ACFI3170  Taxation in Australia  
Unit Value: 10

Introduces students to Australian income tax laws with specific emphasis on students learning how to access provisions of the Income Tax Assessment Act and related legislation. In addition students will be made aware of tax planning issues and learn how to communicate technical tax information to client taxpayers. Covers introduction to the taxation of individual's income, concepts of assessable income, allowable deductions, calculation of taxation - individual taxpayers, retirement payments, capital gains, fringe benefits tax, taxation of partnerships and companies, tax reform and the goods and services tax (GST), tax rulings, assessment and audits. Covering the topics Introduction to the Taxation of Individual's Income, Concepts of Assessable Income, Allowable Deductions, Calculation of Taxation - Individual Taxpayers, Retirement Payments, Capital Gains, Fringe Benefits Tax, Taxation of Partnerships and Companies, Taxation of Trusts and Minors, Tax Reform and the GST.  
Assumed Knowledge: Not applicable

ACFI3190  Financial Institutions Risk Management  
Unit Value: 10

Provides an overview of financial markets and the role of financial institutions, liquidity management, the use of financial derivatives in the management of interest rate risk, financial institutions liability management, management of the securities portfolio, credit analysis, management of the loan portfolio, management of bank capital, an overview of financial institutions regulations and issues in international banking.  
Assumed Knowledge: 20 units from ACFI2070, ACFI2080, ACFI2200, ECON2520, ECON2520, ECON2540

ACFI3300  Accounting and Finance: A User's Perspective  
Unit Value: 10

Not available to students enrolled in courses offered by the Faculty of Economics and Commerce.

The purpose of the course is for non-accounting managers to obtain an understanding of financial statements and thereby make effective management decisions based on the information contained within them. In addition fundamental aspects of finance are explained so as to enable non-accounting managers to make more effective use of organisational resources.  
Assumed Knowledge: N/A

ACFI4030  Accounting IVA  
Unit Value: 20

1. Supervised independent research essay of approximately 20,000 words on an approved topic in accounting, finance or auditing.
2. Course unit in Accounting Research Methods, which addresses ways in which accounting researchers identify and investigate accounting problems, covering a wide range of accounting related topics.
3. One 3000 level course offered by the Department of Accounting and Finance which candidates have not studied previously.
4. Departmental Seminar Presentation of research proposal.  
Assumed Knowledge: Approval Head of Department

ACFI4040  Accounting IVB  
Unit Value: 20

1. Supervised independent research essay of approximately 20,000 words on an approved topic in accounting, finance or auditing.
2. Course unit in Accounting Research Methods, which addresses ways in which accounting researchers identify and investigate accounting problems, covering a wide range of accounting related topics.
3. One 3000 level course offered by the Department of Accounting and Finance which candidates have not studied previously.
4. Departmental Seminar Presentation of research proposal.  
Assumed Knowledge: Approval Head of Department

ACFI4050  Accounting IVC  
Unit Value: 20

1. Supervised independent research essay of approximately 20,000 words on an approved topic in accounting, finance or auditing.
2. Course unit in Accounting Research Methods, which addresses ways in which accounting researchers identify and investigate accounting problems, covering a wide range of accounting related topics.
3. One 3000 level course offered by the Department of Accounting and Finance which candidates have not studied previously.
4. Departmental Seminar Presentation of research proposal.  
Assumed Knowledge: Approval Head of Department

ACFI4060  Accounting IVD  
Unit Value: 20

1. Supervised independent research essay of approximately 20,000 words on an approved topic in accounting, finance or auditing.
2. Course unit in Accounting Research Methods, which addresses ways in which accounting researchers identify and investigate accounting problems, covering a wide range of accounting related topics.
3. One 3000 level course offered by the Department of Accounting and Finance which candidates have not studied previously.
4. Departmental Seminar Presentation of research proposal.  
Assumed Knowledge: Approval Head of Department

AHIS1020  Rome to the Gracchi  
Unit Value: 10

Examines the history of Rome from its origins down to the Sacks of Carthage and Corinth in the middle of the 2nd century BC. The main focus will be on the evolution of the institutions of Republican government, features of Rome’s internal political practice, and the development of her external empire and its administration. Attention will also be paid to the Roman self-image, as evidenced in her value system, foundation mythology, and treatment of her achievement (as seen in major historians).  
Assumed Knowledge: None

AHIS1030  Myth and Performance in Classical Antiquity  
Unit Value: 10

Examines the treatment of Greek myths in performance literature, particularly in Epic and Drama. It serves as an introduction to both Greek myth and Greek and Roman literature, and will involve some study of all Greek and Roman literary genres that have remained influential in the modern world. It will be of special service as an introduction to the literary history courses offered by the department at 3000 level.  
Assumed Knowledge: None
AHIS3100 Greek and Roman Polti Theory
Unit Value: 10
Offers an issue-based introduction to Greek and Roman Political Theory, involving study of the works of Plato, Aristotle, and Cicero. While it will consider the political background of these authors and society as they knew it, it also involves an examination of the ideas and arguments that are valid today, and how they might be effectively countered. Issues include the nature of the political community, communal and individual rights, justice and injustice, the role of law, the merits and demerits of democracy and other systems, and the state’s role in education.
Assumed Knowledge: At least 60 units at 1000 level or above, including 20 units of AHIS, HIST, PHIL, or POL courses.

AHIS3120 Augustus and Tiberius: The Emergence of Empire
Unit Value: 10
Studies aspects of the rule of the first Roman emperors. Emphasis falls on political change towards a court-based society, and the development of the dynastic system.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3150 Sparta
Unit Value: 10
Focuses upon Spartan history from her ancient origins down to the 4th Century BCE and key aspects of her political and social organisation and practice. Emphasis will be placed upon the use of ancient source material in translation (incorporating Greek and Roman value terms) in conjunction with modern scholarship.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3170 Rome and the Celts
Unit Value: 10
Covers the history of Rome’s contact and conflict with the Celtic races from the sack of Rome by the Celts in 390BC down to the conquest of Gaul by Britain by Caesar in the middle of the First Century BC. Aspects of culture, institutions, and religion will be treated as well as the causes of individual conflicts. Emphasis is placed upon the use of ancient source material in translation, taken in conjunction with modern scholarship.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3330 Greek Tragedy
Unit Value: 10
Examines critically the growth of Greek Tragedy during the fifth century BC, and involves the study of plays by Aeschylus, Sophocles, and Euripides from dramatic, literary, and historical perspectives.
Assumed Knowledge: 20 units at any level in Ancient History or History or English

AHIS3370 Augustan Age Literature
Unit Value: 10
Examines works of literature produced during the age of the Emperor Augustus (44BC to 14AD). These will be selected from the writings of Horace, Livy, Horace, Propertius, Ovid, Tibullus, and Vergil. Topics include early literary influences from the Greek and Roman worlds; the impact of recent and contemporary events on authorial content and intent; patronage and literary compromise; the nature of the audience in Augustan Rome.
Assumed Knowledge: 20 units at any level in Ancient History or History or English

AHIS3520 Roman Society
Unit Value: 10
An exploration of various aspects of Roman social life and civilisation in the Late Republican and Early Imperial eras.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3530 Greek Art: Bronze Age to the Classical Period
Unit Value: 10
Aims to give an introduction to the sculpture, painting, pottery, architecture and minor arts of Greece and the Aegean world from 2,000 B.C. to the age of Pericles in the 5th century.
Assumed Knowledge: 20 units at any level in Ancient History or History or Fine Art

AHIS3550 Greek and Roman Mythology
Unit Value: 10
Aims to provide students with an understanding of the myths and legends of the Greek and Roman civilisations. The course focuses on definitions of myth, at its most simple level as a story, as well as what it reveals of Greek and Roman society, religion, beliefs and values and the relevance of Greco-Roman myth for modern thought.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3580 Health and Disease over the Ages
Unit Value: 10
Examines attitudes towards, and concepts of, health and disease from ancient Greek and Roman medicine until modern times. It includes material on gynaecology and mental health.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS4140 Classical Studies Honours I
Unit Value: 20
This course is studied in conjunction with AHIS4150, AHIS4160, and AHIS4170. These courses exist for administrative purposes only, and do not receive separate results. The four courses together constitute an Honours programme in the history, society and literature of Greek and Roman antiquity.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent

AHIS4150 Classical Studies Honours II
Unit Value: 20
This course is studied in conjunction with AHIS4140, AHIS4160, and AHIS4170. These courses exist for administrative purposes only, and do not receive separate results. The four courses together constitute an Honours programme in the history, society and literature of Greek and Roman antiquity.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent

AHIS4160 Classical Studies Honours III
Unit Value: 20
This course is studied in conjunction with AHIS4140, AHIS4150, and AHIS4160. The four courses together constitute an Honours programme in the history, society and literature of Greek and Roman antiquity.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent

ARCH1110 Architecture 1 (Part 1)
Unit Value: 40
Provides an introduction to the activities of an architect, using the theme and focus of “Simple Problems of the Workplace”. It also introduces the Integrated Problem-Based Learning (IPBL) teaching methodology that is central to the program. Students are presented with a series of design exercises that require the application of knowledge and skills from the seven Study Areas, simultaneously, in order to resolve problems of growing complexity. The phases are arranged to begin a progressive development of knowledge and skills required for eventual practice as an architect and as part of the carefully integrated educational evolution of the student.
Assumed Knowledge: Nil

ARCH1120 Architecture 1 (Part 2)
Unit Value: 40
Provides an introduction to the activities of an architect, using the theme and focus of “Simple Problems of the Workplace”. It also introduces the Integrated Problem-Based Learning (IPBL) teaching methodology that is central to the program. Students are presented with a series of design exercises that require the application of knowledge and skills from the seven Study Areas, simultaneously, in order to resolve problems of growing complexity. The phases are arranged to begin a progressive development of knowledge and skills required for eventual practice as an architect and as part of the carefully integrated educational evolution of the student.
Assumed Knowledge: ARCH1110 Architecture 1 (Part 1) or equivalent (including TAFE and international articulation arrangements).
ARCH2110 Architecture 2 (Part 1)  
Unit Value: 40  
The theme “Problems of the Dwelling” introduces the design of multicellular spaces for multiple objectives and social interactions and for both individual and institutional clients, using framed and loadbearing low-rise structures. Students are presented with a series of design exercises (Phases) which require the application of knowledge and skills from seven disciplines or Study Areas, simultaneously, in order to resolve a problem of growing complexity. The phases are arranged to provide a progressive development of knowledge and skills required for practice as an architect and as part of the carefully integrated educational evolution of the student.  
Assumed Knowledge: ARCH1110 & ARCH1120 or equivalent (including TAFE and international articulation arrangements).

ARCH2120 Architecture 2 (Part 2)  
Unit Value: 40  
The theme “Problems of the Dwelling” is developed to include complex residential spaces for multiple objectives and social interactions and for both individual and institutional clients, using framed and loadbearing low-rise structures. Students are presented with a series of design exercises (Phases) which require the application of knowledge and skills from seven disciplines or Study Areas, simultaneously, in order to resolve a problem of growing complexity. The phases are arranged to provide a progressive development of knowledge and skills required for practice as an architect and as part of the carefully integrated educational evolution of the student.  
Assumed Knowledge: ARCH2110 Architecture 2 (Part 1) or equivalent (including TAFE and international articulation arrangements).

ARCH3110 Architecture 3 (Part 1)  
Unit Value: 40  
The focus is concerned with “Problems of Urban Public Space”. The course extends the scale and complexity of design problems previously encountered in Architecture 2 by considering a variety of public building types which entails the study of a group of major institutional clients and a greater diversity of building users. The complexity of the design problems is increased not only by the number and interrelationships of the spaces involved, but also by their specialist functions. These include functional performance, public interface and public assembly.  
Assumed Knowledge: ARCH2110 & ARCH2120 or equivalent.

ARCH3120 Architecture 3 (Part 2)  
Unit Value: 40  
The focus is concerned with “Problems of Urban Public Space”. The course extends the scale and complexity of design problems previously encountered in Architecture 2 and Architecture 3 (Part 1) by considering a variety of public building types which entails the study of a group of major institutional clients and a greater diversity of building users. The complexity of the design problems is increased not only by the number and interrelationships of the spaces involved, but also by their specialist functions. These include functional performance, public interface and public assembly.  
Assumed Knowledge: ARCH3110 Architecture 3 (Part 1) or equivalent.

ARCH3210 Architecture 3 (Prelim) (Part 1)  
Unit Value: 40  
The first semester of the Bachelor of Architecture Preliminary Year is offered to students articulating from other tertiary institutions and who have not attained a level equivalent to the award of Bachelor of Science (Architecture) first degree. The course content and assessment is similar to that of ARCH3110 Architecture 3 (Part 1). However, students who complete both semesters of the Preliminary Year are not eligible for the award of Bachelor of Science (Architecture) as they are enrolled in the Bachelor of Architecture program.  
Concerned with “Problems of Urban Public Space” the course extends the scale and complexity of design problems previously encountered in Architecture 2 by considering a variety of public building types which entails the study of a group of major institutional clients and a greater diversity of building users. The complexity of the design problems is increased not only by the number and interrelationships of the spaces involved, but also by their specialist functions. These include functional performance, public interface and public assembly.  
Assumed Knowledge: ARCH2110 & ARCH2120 or equivalent (including international articulation arrangements).

ARCH3220 Architecture 3 (Prelim) (Part 2)  
Unit Value: 40  
The course content and assessment is similar to that of ARCH3120 Architecture 3 (Part 2). However, students who complete both semesters of the Preliminary Year are not eligible for the award of Bachelor of Science (Architecture) as they are enrolled in the Bachelor of Architecture program.  
Concerned with “Problems of Urban Public Space” the course extends the scale and complexity of design problems previously encountered in Architecture 2 and ARCH3110 by considering a variety of public building types which entails the study of a group of major institutional clients and a greater diversity of building users. The complexity of the design problems is increased not only by the number and interrelationships of the spaces involved, but also by their specialist functions. These include functional performance, public interface and public assembly.  
Assumed Knowledge: ARCH3210.

ARCH4130 Architecture 4 (Part 1)  
Unit Value: 40  
Investigates the ways in which larger groupings and assemblages of buildings combine to generate the form of towns and cities. The theme “Problems of the City” includes projects relating to urban design studies; light/medium-rise buildings; medium-rise developments; the extension of environmental, circulation, land use and other design issues beyond the individual building plot; commercial and multi-use building types and conservation of buildings. Within the course Architecture 4130 students are presented with a series of design exercises (phases) which require the application of knowledge and skills from seven disciplines or study areas, simultaneously, in order to resolve a problem of growing complexity. The phases are arranged to provide a progressive development of knowledge and skills required for practice as an architect and as part of the carefully integrated educational evolution of the student.  
Assumed Knowledge: ARCH3110 & ARCH3120 or equivalent.

ARCH4140 Architecture 4 (Part 2)  
Unit Value: 40  
Investigates the ways in which larger groupings and assemblages of buildings combine to generate the form of towns and cities. The theme “Problems of the City” includes projects relating to urban design studies; light/medium-rise buildings; medium-rise developments; the extension of environmental, circulation, land use and other design issues beyond the individual building plot; commercial and multi-use building types and conservation of buildings. Within the course Architecture 4140 students are presented with a series of design exercises (phases) which require the application of knowledge and skills from seven disciplines or study areas, simultaneously, in order to resolve a problem of growing complexity. The phases are arranged to provide a progressive development of knowledge and skills required for practice as an architect and as part of the carefully integrated educational evolution of the student.  
Assumed Knowledge: ARCH4130 or equivalent.

ARCH5130A Architecture 5 (Part A)  
Unit Value: 40  
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Students commence a major architectural design problem in Architecture 5, as the basis for their elective program of work through the semester within the theme “Problems of Architectural Practice”. This program is intended to allow each student to choose a design problem which best suits the individual’s interest and likely context of future practice. The chosen project is expected to be a demanding one, extending the areas of knowledge and skills developed over the previous years of study and allowing each student to present her or his achievement in considerable depth. Generally, Stages 1, 2 and 3 are completed in Part A, this being one half of the Architecture 5 program. At the end of Semester 1, no result is established and the program sequence is required to continue until the completion of Part B when final examination and assessment occur.  
Note: ARCH5130A and ARCH5130B constitute a whole of year program in which one elective project is completed.  
Assumed Knowledge: ARCH4130 and ARCH4140 or equivalent.

ARCH5130B Architecture 5 (Part B)  
Unit Value: 40  
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Students complete the major architectural design problem in Architecture 5 as the basis for their elective program of work through the semester within the theme “Problems of Architectural Practice”. This program is intended to allow each student to undertake and complete a design problem which best suits the individual’s interest and likely context of future practice. The chosen project is expected to be a demanding one, extending the areas of knowledge and skills developed over the previous years of study and allowing each student to present her or his achievement in considerable depth. Generally, Stages 4, 5 and 6 are completed in Architecture 513 (Part B).  
Note: ARCH5130A and ARCH5130B constitute a whole of year program in which one elective project is completed.  
Assumed Knowledge: ARCH5130A.
ARTC1020 Digital Imaging 1A
Unit Value: 10
To address the needs in the professional preparation of the contemporary artist for relevant visual imaging techniques and computer skills. By the end of the subject the student will be able to understand the function and use of computer hardware; be familiar with suitable software for assistance in the production of creative works and be able to manipulate and produce a digital image.
Contact hours: 3 hours per week
Assumed Knowledge: N/A

ARTC1030 Digital Imaging 1B
Unit Value: 10
Builds upon FINA172C and extends the student’s abilities in the use of digital imaging. Students will be expected to begin to link computer technology with traditional studio activities of Painting and Drawing.
Contact hours: 3 hours per week
Assumed Knowledge: N/A

ARTC1040 Foundation Painting
Unit Value: 10
Introduces students to the technical processes and to stimulate attitudes and responses which encourage creativity in Fine Art.
Contact hours: 4 hours per week
Assumed Knowledge: N/A

ARTC1050 Painting Workshop 1A
Unit Value: 10
Extends and develops technical processes and attitudes to paint media and to integrate studio practice with digital imaging skills. Students will be encouraged to pursue creative activity within the field of painting and to begin to assimilate a knowledge of contemporary art.
Contact hours: 4 hours per week
Assumed Knowledge: N/A

ARTC1060 Foundation Drawing
Unit Value: 10
Introduce students to the fundamental processes, methods and materials involved in drawing. Drawing is seen to underpin most fine art practice and is recognised as an important vehicle for visual literacy.
Contact hours: 4 hours per week
Assumed Knowledge: N/A

ARTC1070 Drawing Workshop 1A
Unit Value: 10
Extends and develops technical processes and attitudes to drawing media and integrates studio practice with digital imaging skills. Students will be encouraged to pursue creative activity within the field of drawing and to begin to assimilate a knowledge of contemporary art. On completion the student will: display competency in the use of drawing media; demonstrate a growing awareness of problem solving within drawing; understand in greater depth issues of composition, form and content; employ a more critical and analytical interpretation and judgement of imagery; adhere to and be cognizant of health and safety issues as they apply to drawing media; begin to show the beginnings of self-motivation; have maintained a research portfolio; have extended their own conceptual framework of what constitutes drawing practice.
Contact hours: 4 hours per week
Assumed Knowledge: N/A

ARTC1410 Australasian Theatre and Performance
Unit Value: 10
Examines the socio-cultural, political, economic and aesthetic significance of theatre and performance in Australasian contexts. Students will be required to research and engage in performance which constructs cultural identities in Australasia. The ability to critique official mechanisms and policies which construct national cultural identities informs aesthetic praxis. Thus, cultural plurality and notions of ‘difference’ become central to an understanding of theatre and performance in Australasia.
Contact hours: 3 hours per week
Assumed Knowledge: There is no assumed knowledge for this subject, but it is intended that students taking this subject would have some familiarity with the content of the first semester subject, Creating Original Performance.

ARTC1450 Artistic Representations
Unit Value: 10
Examines the semiotic system underpinning innovation in the creative arts. The course explores key theoretical and methodological approaches to the art of constructing original art works stemming from a textual stimulus. It employs an interdisciplinary approach through a combination of aspects of creative writing, fine arts and performance in the construction of new works.
Assumed Knowledge: N/A

ARTC2000 Art History and Theory: Images and Interpretation
Unit Value: 10
Introduces a variety of theoretical approaches towards the interpretation of visual imagery. It will investigate a range of critical theories and their application to historical and contemporary art. It will then apply these theories to a selected range of case studies and incorporate the student’s own imagery in its analysis. On completion the student will: have developed the ability to frame their practice within a specific historical or contemporary context; have an increased knowledge of theories of art; and have acquired specialised knowledge of a selected aspect of art theory.
Contact hours: 3 hours per week
Assumed Knowledge: N/A

ARTC2010 Current views of Art History
Unit Value: 10
Investigates issues of Art History and Ideology as they have been applied to the analysis of visual imagery. It will examine the theme of ‘gender’ as a case study in the construction of Art History and its links with the reading of artistic imagery. An investigation of the student’s own imagery will be incorporated into the teaching process. On completion the student will: have developed the ability to frame their practice within a specific ideological, historical or contemporary context; have an increased knowledge of methodologies of art history; and have acquired specialised knowledge of a selected aspect of art theory or history.
Contact hours: 3 hours per week
Assumed Knowledge: N/A

ARTC2020 Digital Imaging 2A: (Photography)
Unit Value: 10
Introduces students to a basic understanding of the principles of photography and to assist the students to develop skills in the use and application of conventional photography and its relationship to digital imaging. Students will acquire conventional photographic skills necessary for good photographic documentation of their artworks, both 2D and 3D. Emphasis will be placed upon the use of the 35 mm SLR camera and its application to colour, black and white and slide production.
Contact hours: 3 hours per week
Assumed Knowledge: HFA102 or HFA103.

ARTC2030 Digital Imaging 2B
Unit Value: 10
The basic layout and presentation skills for the production of Curriculum Vitae and other published material for the purpose of gallery exhibitions, competitions, prizes and awards. The subject seeks to include skills acquired in photography and to synthesise these with digital imaging processes to produce high quality self promotional material.
Contact hours: 3 hours per week
Assumed Knowledge: HFA202

ARTC2040 Painting Workshop 2A
Unit Value: 10
Builds upon 1st year Painting Workshop experiences and enables students to develop their own interests and ideas and begin to find their own direction. An emphasis is placed upon the integration of issues and topics addressed in 2nd Year Art History/ Theory and the topics will run in parallel. The function of Art Theory will be emphasised in the studio and students will be able to create imagery appropriate to the issues developed in Art History/Theory. Project based work will seek to underpin the student’s technical proficiency and will encourage students to extend further the creative possibilities of painting.
Contact hours: 4 hours per week
Assumed Knowledge: HFA105

ARTC2050 Painting Workshop 2B: Practice/Theory Synthesis
Unit Value: 10
Seeks to continue the links with the Art History/Theory course. The major topics covered are History and Ideology and Gender. Using these as a starting point, and in parallel with the Theory course students will develop creative works dealing with this subject matter. Students will be encouraged to work either collaboratively or individually. Second year is seen as providing the opportunity to develop technical and conceptual awareness allowing students to form a personal language, confidence and individual direction essential to fulfil the demands of the final year.
Contact hours: 4 hours per week
Assumed Knowledge: HFA204

ARTC2060 Drawing Workshop: Observational Drawing
Unit Value: 10
Builds upon the experiences of First Year Drawing Workshops. It is designed to further enhance the student’s ability in visual language. This subject is about developing the skills of observation and applying those skills within the language of drawing. This subject will seek to complement the activities in both Digital Imaging and Art Theory. Students will be encouraged to use drawing as a medium in its own right, not simply in a supporting role to Painting.
Contact hours: 4 hours per week
Assumed Knowledge: HFA107
ARTC2070 Drawing Workshop 2A
Unit Value: 10
Investigates the two main areas of "History and Ideology" and "Gender" through drawing. The emphasis will be upon the conceptual approach to drawing rather than the purely observational. A personal language, through drawing, will allow the student to crystallize an individual direction as a precursor for final year studies.
Assumed Knowledge: ARTC2060

ARTC2200 Foundations in Art Making
Unit Value: 10
Provides students an opportunity to investigate a broad range of materials and processes relating to art making.

The intention of this subject is to examine historical and contemporary conceptions of art making and to develop an awareness of the potential of materials, their use and relationship to creative works.

It will enhance the practical, theoretical and conceptual skills appropriate for primary education students.

Students will compile a portfolio of visual research together with a written research project.
Assumed Knowledge: N/A

ARTC3010 Art His & Th: Memory, History, Interdisciplinarity
Unit Value: 10
Exposes students to contemporary areas of debate on the themes of memory and history both within the Fine Arts and across disciplines. This subject will alert students to issues arising in a range of disciplines which can be relevant and useful to the emerging artist and investigate the relevance of interdisciplinarity as a theme in its own right.
Contact hours: 3 hours per week
Assumed Knowledge: HFA3200

ARTC3020 Digital Imaging 3A
Unit Value: 10
Enables students to apply knowledge gained in digital imaging to creative applications within the studio workshops. It is seen as a further tool to link and enhance both the Painting Workshop and Interdisciplinary Practice strengths in third year. It provides students with an opportunity of continuing the use of technology within the context of creative studio applications.

By the end of the subject the student will be able to:
- Demonstrate an ability to synthesise the digital imaging skills into studio practice;
- Link creatively the use of digital imaging in their art practice.

Contact hours: 3 hours per week
Assumed Knowledge: HFA203; HFA205; HFA207.

ARTC3030 Professional Practice
Unit Value: 10
Introduces students to the professional, legal and business aspects of maintaining a contemporary art practice. It will also expose students to a range of career opportunities. Students will learn the Arts industry practices, business and exhibition skills necessary to be able to survive and promote themselves as artists in contemporary society.

Contact hours: 3 hours per week
Assumed Knowledge: HFA203; HFA205; HFA207.

ARTC3040 Painting Workshop 3A
Unit Value: 10
Places emphasis upon individual work programs with each student providing two planned working contracts outlining in detail a work proposal. Each contract will deal with a work period of seven weeks. The studio component is intended to be part of a unified and integrated final year of study that incorporates a close link with the theoretical studies. By this stage it is expected that students in third year will have the motivation, knowledge and ability to begin to engage individual practice. This subject will act as an introduction to a more sustained period of self-direction.

Contact hours: 3 per week
Assumed Knowledge: HFA205

ARTC3050 Painting Workshop 3B
Unit Value: 10
The students, in close consultation with lecturers, will outline a proposal for a work program of thirteen weeks. This working program will be establish and agreed in week 1 and the emphasis is upon student initiated research, individual art practice and the development of individual conceptual concerns. Students will now have a great opportunity to fully explore and integrate acquired skills into a personal creative program. The links with theoretical studies and the interdisciplinary strand allow for a diversity of approach and practice to art making. Although the emphasis is upon individual programs this does not preclude a collaborative project.

Contact hours: 3 Hours per week.
Assumed Knowledge: HFA203

ARTC3060 Interdisciplinary Practice A
Unit Value: 10
Allows students to explore a range of creative directions for example drawings, watercolour, photography, digital imaging, mixed media, 3D and text. Unorthodox or exotic materials can be used. This subject allows an opportunity to work in parallel with other strands in third year to extend the visual vocabulary and language of art making. To this end students will be encouraged to test their ideas in a diverse range of media thus exploring an Interdisciplinary approach.

By the end of this subject students will:
- have experienced creative activity in a diverse range of media;
- have experimented with diverse approaches to their major theme.
Assumed Knowledge: HFA203

ARTC3070 Interdisciplinary Practice B
Unit Value: 10
Allows students to explore a range of possibilities which may include moving out of the studio into the environment or community, creating site specific work, environmental art, installation, video or performance work, or other art forms. This subject closely with the final contract/proposal in painting workshop 3B HFA 305, integrates Art History/Theory and enables students to access the full armory of contemporary art practice methodologies. It is important to differentiate from painting workshop 3B using an interdisciplinary approach to media and process.

Contact hours: 3 Hours per week.
Assumed Knowledge: HFA306

ARTC3440 Performance Histories I
Unit Value: 10
Examines the socio-cultural, political, economic and aesthetic significance of theatre, performance and film in community contexts. Students will be introduced to the key theoretical and methodological practices which have influenced the role of the director in community performances with an emphasis on Australian contexts. Students will be required to research and engage in performance projects which construct a socio-political voice for specific communities. The course will also examine the role of the director in exploring the relationship between the socio-political voice and the construction of cultural identities and spiritual beliefs.

Assumed Knowledge: 20 units of Drama at 1000 Level

ARTC3470 Directing & Performing in Contemp Community Performa
Unit Value: 20
The four Honours courses together enable students, within the Fine Art, to undertake a substantive programme of research in both studio and written form. They will build upon a student’s abilities to innovate and investigate visual language and art making and to articulate issues in a dissertation.

The emphasis will be upon contemporary concerns in the visual arts leading to an advanced knowledge of research methodologies and interdisciplinary practices in the Fine Arts.

Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an average of Credit in the discipline during final year of the BFA.

ARTC4000 Fine Art Honours A
Unit Value: 20
The four Honours courses together enable students, within the Fine Art, to undertake a substantive programme of research in both studio and written form. They will build upon a student’s abilities to innovate and investigate visual language and art making and to articulate issues in a dissertation.

The emphasis will be upon contemporary concerns in the visual arts leading to an advanced knowledge of research methodologies and interdisciplinary practices in the Fine Arts.

Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an average of Credit in the discipline during final year of the BFA.

ARTC4001 Fine Art Honours B
Unit Value: 20
The four Honours courses together enable students, within the Fine Art, to undertake a substantive programme of research in both studio and written form. They will build upon a student’s abilities to innovate and investigate visual language and art making and to articulate issues in a dissertation.

The emphasis will be upon contemporary concerns in the visual arts leading to an advanced knowledge of research methodologies and interdisciplinary practices in the Fine Arts.

Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an average of Credit in the discipline during final year of the BFA.
ARTC4002  Fine Art Honours C
Unit Value: 20

The four Honours courses together enable students, within the Fine Art, to undertake a substantive programme of research in both studio and written form. They will build upon a student’s abilities to innovate and investigate visual language and art making and to articulate issues in a dissertation.

The emphasis will be upon contemporary concerns in the visual arts leading to an advanced knowledge of research methodologies and interdisciplinary practices in the Fine Arts.

Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an average of Credit in the discipline during final year of the BFA.

ARTC4003  Fine Art Honours D
Unit Value: 20

The four Honours courses together enable students, within the Fine Art, to undertake a substantive programme of research in both studio and written form. They will build upon a student’s abilities to innovate and investigate visual language and art making and to articulate issues in a dissertation.

The emphasis will be upon contemporary concerns in the visual arts leading to an advanced knowledge of research methodologies and interdisciplinary practices in the Fine Arts.

Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an average of Credit in the discipline during final year of the BFA.

ARTC4400  Creative Arts Honours A
Unit Value: 20

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Designed to provide a thorough introduction to the BSc(Aviation) at Newcastle, and accompany the Year 1 flight training program. It is based upon the Civil Aviation Safety Authority (CASA) Day-VFR syllabus and incorporates the aeronautical knowledge requirements and all industry examinations up to and including the Commercial Pilot Licence (CPL) (Aeroplanes) Theory Examination.

Assumed Knowledge: A Fundamental HSC knowledge of mathematics and physics is necessary to meet the aeronautical knowledge objectives in this syllabus. The courses are not examined independently, but applicants below standard in mathematics and physics are advised that this may make the aeronautical knowledge objectives difficult to achieve.

AVIA1240B  Aviation 1 (Part B)
Unit Value: 20

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

AVIA124 is a full year subject designed to provide a thorough introduction to the BSc(Aviation) at Newcastle, and accompany the Year 1 flight training program. It is based upon the Civil Aviation Safety Authority (CASA) Day-VFR syllabus and incorporates the aeronautical knowledge requirements and all industry examinations up to and including the Commercial Pilot Licence (CPL) (Aeroplanes) Theory Examination.

Contact hours: 8 hours per week lectures, with additional tutorials, total 224 hours.

Assumed Knowledge: A Fundamental HSC knowledge of mathematics and physics is necessary to meet the aeronautical knowledge objectives in this syllabus. The subjects are not examined independently, but applicants below standard in mathematics and physics are advised that this may make the aeronautical knowledge objectives difficult to achieve.

AVIA1280  Air Transport Systems Primer
Unit Value: 10

AVIA128 is designed to prepare students in part for the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Aerodynamics and Systems exam, as a precursor to, and in combination with AVIA235 Air Transport Systems.

Provides a primer for the fundamental concepts required for competent understanding of aerodynamics and aircraft systems for the airline transport pilot as specified by the ATPL Aerodynamics and Systems component of the CASA aircrew licencing syllabus. In addition, it addresses the CASA syllabus requirements for aircraft electrical equipment, engine operation and aircraft aerodynamics.

Contact hours: 4 hours per week.

Assumed Knowledge: The following knowledge is assumed in the delivery of the subject and its assessment:

a) Numeracy skills: Fundamental HSC mathematical abilities, including resolving and adding vectors, interpretation and preparation of two dimensional graphs.
b) Basic Aeronautical Knowledge of aircraft systems and aerodynamics as covered in AVIA124 semester one.

AVIA1290A  Principles of Flying Practice 1 (Part A)
Unit Value: 5

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Develops an understanding of the training and learning required to facilitate the process of how to fly an aircraft as a professional, as well as the acquisition of high level competencies in flying skills through the process of learning objectives and reflective practice. Students are required to develop a personalised reflective journal portfolio suitable for auditing by the Civil Aviation Safety Authority. A foundation subject for students undertaking flight training that uses a thematic approach to integrate, through reflective practice, the flying competency program with professional licence requirements.

Contact hours: 2 hours per week discussion groups and web-based interaction in addition to associated flight training.

Assumed Knowledge: It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Aviation knowledge to the standard of the CASA CPL syllabus requirements (as covered in AVIA124). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCI1010).
### AVIA1290B Principles of Flying Practice 1 (Part B)

**Unit Value:** 5

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Develops an understanding of the training and learning required to facilitate the process of how to fly an aircraft as a professional, as well as the acquisition of high level competencies in flying skills through the process of learning objectives and reflective practice. Students are required to develop a personalised reflective journal portfolio suitable for auditing by the Civil Aviation Safety Authority. A foundation subject for students undertaking flight training that uses a thematic approach to integrate, through reflective practice, the flying competency program with professional licence requirements.

**Contact hours:** 2 hours per week discussion groups and web-based interaction in addition to associated flight training

**Assumed Knowledge:** It is assumed that the following knowledge will be developed in parallel with this subject in the first year Professional Pilot program. Aviation knowledge to the standard of the CASA CPL syllabus requirements (as covered in AVIA124), Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

### AVIA2250 Group Interaction & Multi-Crew Performance

**Unit Value:** 10

Not to count with AVIA221.

Examines the role of group interaction in mediating human performance in multi-crew aircraft. The main topics are social psychology in aviation, including group processes and communication; cockpit management, with an emphasis on Crew Resource Management (CRM) program development and evaluation; and crew management, including leadership, decision making, and conflict resolution. It incorporates an industry applicable Human Factors CRM awareness course.

**Contact hours:** 2 lecture hours and 2 tutorial/laboratory hours per week plus 8 workshop and 18 seminars hours throughout the semester.

**Assumed Knowledge:** Knowledge of human performance and limitations to the standard of the CASA CPL syllabus requirements (as covered in AVIA124), Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

### AVIA2340A Principles of Flying Practice 2 (Part A)

**Unit Value:** 5

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Continues to develop an understanding of the training and learning required to facilitate the process of how to fly an aircraft as a professional, as well as the acquisition of high level competencies in flying skills through the process of learning objectives and reflective practice. Students are required to develop a personalised reflective journal portfolio suitable for auditing by the Civil Aviation Safety Authority (CASA). They are also required to satisfy the requirements of the CASA Instrument Rating theory syllabus by passing the CASA Instrument Rating examination.

**Contact hours:** 2 hours per week lectures, discussion groups and web-based interaction in addition to associated flight training

**Assumed Knowledge:** 1) Aviation knowledge to the standard of the CASA Commercial Pilot Licence (CPL) syllabus requirements evidenced by a pass in the CPL Theory examination (as covered in AVIA124).

2) Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and report writing skills (as covered in SCIM101).

### AVIA2340B Principles of Flying Practice 2 (Part B)

**Unit Value:** 5

Continues to develop an understanding of the training and learning required to facilitate the process of how to fly an aircraft as a professional, as well as the acquisition of high level competencies in flying skills through the process of learning objectives and reflective practice. Students are required to develop a personalised reflective journal portfolio suitable for auditing by the Civil Aviation Safety Authority (CASA). They are also required to satisfy the requirements of the CASA Instrument Rating theory syllabus by passing the CASA Instrument Rating examination.

**Contact hours:** 2 hours per week lectures, discussion groups and web-based interaction in addition to associated flight training

**Assumed Knowledge:** 1) Aviation knowledge to the standard of the CASA Commercial Pilot Licence (CPL) syllabus requirements evidenced by a pass in the CPL Theory examination (as covered in AVIA124).

2) Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and report writing skills (as covered in SCIM101).

### AVIA2350A Air Transport Systems (Part A)

**Unit Value:** 10

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Specifically aimed at meeting the requirements of the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Aerodynamics and Systems syllabus. Develops competency with the fundamental knowledge defined in the syllabus and its application to transport category aircraft, as specified by CASA as appropriate for the ATPL. (e.g. Boeing 767). The subject examines transport category aircraft systems and aerodynamics, and utilises case studies and practical application of specific aircraft systems, equipment, jet engines, and Air Transport category aircraft, and digital simulation activities in avionics and flight control.

**Contact hours:** 4 hours per week (lectures, tutorials, seminars and workshops)

**Assumed Knowledge:** The following knowledge is assumed in the delivery of the subject and its assessment:

a) Numeracy skills: Fundamental HSC mathematical abilities, including resolving and adding vectors, interpretation and preparation of two dimensional graphs.

b) Basic Aeronautical Knowledge of aircraft systems and aerodynamics as covered in AVIA124.

### AVIA2350B Air Transport Systems (Part B)

**Unit Value:** 10

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Specifically aimed at meeting the requirements of the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Aerodynamics and Systems syllabus.

Develops competency with the fundamental knowledge defined in the syllabus and its application to transport category aircraft, as specified by CASA as appropriate for the ATPL (e.g. Boeing767). The subject examines generic transport category aircraft systems and aerodynamics, and utilises case studies and practical application of specific aircraft systems, equipment, jet engines, and Air Transport category aircraft, and digital simulation activities in avionics and flight control.

**Contact hours:** 4 hours per week (lectures, tutorials, seminars and workshops)

**Assumed Knowledge:** The following knowledge is assumed in the delivery of the subject and its assessment:

a) Numeracy skills: Fundamental HSC mathematical abilities, including resolving and adding vectors, interpretation and preparation of two dimensional graphs.

b) Basic Aeronautical Knowledge of aircraft systems and aerodynamics as covered in AVIA124.

### AVIA2360 Commuter Category Aircraft Operations

**Unit Value:** 10

Reviews the following items in the context of the operation of Commuter Category aircraft: definition of the commuter category; aircraft navigation; aircraft flight planning; aircraft performance; and operational legislation.

**Contact hours:** 4 hours per week (lectures, tutorials, seminars and workshops)

**Assumed Knowledge:** Knowledge of Aircraft Flight Planning, Navigation, Performance, Meteorology and Air Law to the standard of the CASA CPL syllabus (as covered by AVIA124).

### AVIA2370 Air Transport Meteorology

**Unit Value:** 10

Emphasises the analysis of atmospheric processes to evaluate hazardous weather events, and introduces aviators to practical weather forecasting techniques that can be applied to short-term aviation operations. The subject incorporates the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Meteorology examination.

**Contact hours:** 4 hours per week (lectures, tutorials, seminars and workshops)

**Assumed Knowledge:** Knowledge of meteorology to the standard of the CASA CPL syllabus requirements (as covered in AVIA124), Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

### AVIA2380 Air Transport Navigation

**Unit Value:** 10


**Contact hours:** 4 hours per week (lectures, tutorials, seminars and workshops)

**Assumed Knowledge:** 1) Air Transport Navigation to the standard of the CASA CPL syllabus (as covered by AVIA124).

2) Knowledge of Aircraft Navigation for Commuter Category aircraft (as covered by AVIA226).
AVIA2390 Air Transport Aircraft Performance
Unit Value: 10
Reviews aircraft performance and loading requirements related to the operation of Transport Category Aircraft in the context of the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Performance and Loading syllabus. Assessment includes the CASA ATPL Performance and Loading examination.

Assumed Knowledge: 1. Knowledge of Aircraft Performance and Loading to the standard of the CASA CPL syllabus (as covered by AVIA124).
2. Knowledge of Aircraft Performance and Loading for Commuter Category aircraft (as covered by AVIA226).

AVIA3140A Directed Study (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: Knowledge and competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

AVIA3140B Directed Study (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: Knowledge and competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

AVIA3260 International Aeronautical Meteorology
Unit Value: 10
Not to count with AVIA323.

This subject focuses on the practical benefits of the following:
- interpretation methods for satellite imagery;
- classical techniques for ground-based radar analysis and nowcasting;
- interpretation of numerical prognosis and diagnostics;
- formulating real-time 3D models of the atmosphere that explain, as far as possible, all the current weather observations and ongoing changes.

The approach to the international weather forecasting in this course has been aimed to encourage pilots to develop a systematic method of assessment of weather trends and forecasting; a method that has a scientific basis but one which can also be applied to real-time situations where there are heavy work loads and severe time constraints.

Contact hours: 4 hours per week of lectures, tutorials, seminars and workshops.

Assumed Knowledge: Knowledge of meteorology to the standard of the CASA CPL syllabus requirements (as covered in AVIA124). Knowledge of meteorology to the standard of the CASA ATPL syllabus requirements (as covered in AVIA239).

Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

AVIA3280 Aircraft Structural and Fatigue Management
Unit Value: 10
Not to count with AVIA213 or AVIA220.

The subject aims to develop a working understanding of:
1. fundamental concepts affecting airframe structural integrity;
2. the influence of inertial and aerodynamic loads on the airframe structure during flight, landing and taxi;
3. the contribution of materials and structures to airframe life and maintenance;
4. environmental degradation of metal and composite airframes;
5. identifying and locating structural fatigue cracks, and limitations inherent in these techniques; and
6. methods used in the aviation industry to manage airframe life and the aircraft fleet.

The subject involves 56 student contact hours, delivered by lectures and weekly laboratory sessions.

Assumed Knowledge: The subject does not rely on assumed knowledge beyond basic numeracy and computer skills such as competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

AVIA3290 Flight Control Dynamics
Unit Value: 10
Not to count with AVIA312 or AVIA318.

Flight Control Dynamics concentrates on modelling aerodynamic response on flight simulators to develop effective understanding of the dynamic behaviour of aircraft. It considers the validity of associated cognitive models of aerodynamic response and their role in effective situation awareness of aircraft behaviour.

The subject involves 56 student contact hours delivered by lectures, case studies and laboratory sessions.

Assumed Knowledge: 1. Knowledge and competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).
2. Knowledge of CPL aerodynamics and flight control systems (as covered in AVIA124).
3. Knowledge of ATPL aerodynamics and flight control systems (as covered in AVIA128 and AVIA235).
5. Knowledge of technical report writing, numeracy skills, graphical presentation of data, error analysis, dynamic response, and aircraft wing deflection under static and dynamic loading (as covered in AVIA328).

AVIA3300 Air Transport Flight Planning
Unit Value: 10

Contact hours: 4 hours per week of lectures, tutorials, seminars and workshops.

Assumed Knowledge: Knowledge of Aircraft Flight Planning to the standard of the CASA CPL syllabus (as covered by AVIA124).

Knowledge of Aircraft Flight Planning for Commuter Category aircraft (as covered by AVIA226).

AVIA3310 Aviation Training and Instruction
Unit Value: 10
Practically focused to develop the knowledge and competencies relating to training and instructional technique within an aviation and adult learning context. It explores contemporary education issues relevant to aviation and other domains such as problem based learning; flexible learning; distance education; and cross-cultural perspectives.

Contact hours: 12 hours workshop delivery plus web-based flexible subject delivery equivalent to total of 56 hours

Assumed Knowledge: Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM101).

AVIA3320 Air Transport Operations
Unit Value: 10
Not to count with AVIA306.

Reviews operational procedures and regulatory requirements related to the operation of large Transport Category Aircraft in the context of the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Air Law syllabus. In addition, various component areas of the Air Operator’s Certificate are discussed in terms of the relevance to, and application in, the practical operational environment.

Assessment includes the CASA ATPL Air Law examination.

Contact hours: 4 hours per week of lectures, tutorials, seminars and workshops.

Assumed Knowledge: Knowledge of Aircraft and Operational Procedures and Air Law to the standard of the CASA CPL syllabus (as covered by AVIA124).

AVIA3330 Satellite Systems & Air Traffic Management
Unit Value: 10
Explores current and future developments in aviation systems technology associated with long range navigation. This includes the present and future communications, navigation and surveillance systems (CNS and W CNS), future air navigation systems, (fANS), satellite technology, global navigation satellite systems (GNSS), traffic collision avoidance systems (TCAS), ground proximity warning systems (GPWS), data-links, air traffic management, Free Flight, and associated human factors, political and regulatory issues of advanced navigation systems.

Contact hours: 4 hours per week of lectures, tutorials, seminars and workshops.

Assumed Knowledge: Knowledge of Aircraft and Operational Procedures and Air Law to the standard of the CASA CPL syllabus (as covered by AVIA124).

Knowledge of Aircraft Navigation to the standard of the CASA CPL syllabus (as covered by AVIA124).

Knowledge of Aircraft Navigation and GPS operations for Commuter Category aircraft (as covered by AVIA226).
AVIA3340  Human Factors and Aviation Psychology
Unit Value: 10
Reviews basic human factors concepts in the context of the Civil Aviation Safety Authority (CASA) human performance and limitations (HPL) commercial pilot licence (CPL) syllabus and extends this to the Airline Transport Pilot Licence (ATPL) level. In addition, various component areas of the aviation socio-technical system are examined in terms of human factors, aviation psychology and safety. Selected aspects of aviation psychology are discussed in terms of their relevance to and application in the operational environment. Lectures will be supplemented with discussion of video examples and applied research papers. Assessment includes the CASA ATPL HPL exam.
Contact hours: 4 hours per week (lectures, tutorials, seminars and workshops)
Assumed Knowledge: Knowledge of human performance and limitations to the standard of the CASA CPL syllabus requirements as covered in AVIA124, and an understanding of the concepts of human factors and resource management in groups and organisations, as covered in AVIA225.

AVIA4110  Aviation Honours 411
Unit Value: 20
AVIA411 is a 20 credit point component of an 80 credit point Honours program in Aviation. Honours in Aviation comprises two equally weighted components. The advanced level coursework is made up of four seminars selected from optional units. The research component entails the development, conduct, analysis and reporting of a piece of original empirical research, presented as a thesis. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences (Aviation). Full-time students complete the coursework and thesis over one year of study. Part-time students undertake the coursework in their first year of study and the thesis in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences. AVIA411 is equivalent to two seminars and associated course work selected from optional units.
Contact hours: Two hours weekly coursework supervision
Assumed Knowledge: Students must have satisfied the Faculty’s requirements for entry to fourth year Aviation, including completion of 120 credit points of approved Aviation subjects in years 1, 2 and 3 and including AVIA314. SCIM101 is compulsory for students who commenced in 2000 or later.

AVIA4120  Aviation Honours 412
Unit Value: 20
AVIA412 is a 20 credit point component of an 80 credit point Honours program in Aviation. Honours in Aviation comprises two equally weighted components. The advanced level coursework is made up of four seminars selected from optional units. The research component entails the development, conduct, analysis and reporting of a piece of original empirical research, presented as a thesis. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences (Aviation). Full-time students complete the coursework and thesis over one year of study. Part-time students undertake the coursework in their first year of study and the thesis in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences. AVIA412 is equivalent to half the thesis research component. Typically this relates to the data collection, analysis, and report write up phases of the study. Contact hours: Two hours weekly thesis supervision
Assumed Knowledge: Students must have satisfied the Faculty’s requirements for entry to fourth year Aviation, including completion of 120 credit points of approved Aviation subjects in years 1, 2 and 3 and including AVIA314. SCIM101 is compulsory for students who commenced in 2000 or later.

AVIA4210  Aviation Honours 421
Unit Value: 20
AVIA421 is a 20 credit point component of an 80 credit point Honours program in Aviation. Honours in Aviation comprises two equally weighted components. The advanced level coursework is made up of four seminars selected from optional units. The research component entails the development, conduct, analysis and reporting of a piece of original empirical research, presented as a thesis. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences (Aviation). Full-time students complete the coursework and thesis over one year of study. Part-time students undertake the coursework in their first year of study and the thesis in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences. AVIA421 is equivalent to two seminars and associated course work selected from optional units.
Contact hours: Two hours weekly coursework supervision
Assumed Knowledge: Students must have satisfied the Faculty’s requirements for entry to fourth year Aviation, including completion of 120 credit points of approved Aviation subjects in years 1, 2 and 3 and including AVIA314. SCIM101 is compulsory for students who commenced in 2000 or later.
BIOL1010 Introduction to Cell & Molecular Biology
Unit Value: 10

Provides an introduction to the basic principles of cell & molecular biology and is appropriate for students with little prior exposure to biology. The themes are, the origin of life, cells as the basic unit of life, the link between structure of biomolecules and their function in cells and the interactions of cells with their environment.

In conjunction with BIOL102 the subject is designed to offer students an understanding of basic cellular processes that will allow a more detailed understanding of the organism; whether for the development of therapeutic compounds, explaining the basis of disease, relating basic cellular processes to the physiology of the whole organism or the use of microbial systems in bioinformatics. These themes are expanded and developed in the 200 & 300 level biology subjects

Contact hours: 3 hours lectures 3 hours laboratory sessions per week
Assumed Knowledge: HSC Maths and Chemistry desirable

BIOL1020 Introductory Biology: Cells to Organisms
Unit Value: 10

Using development and evolution as the central themes, and flowering plants and vertebrates as main models, this subject illustrates how a single fertilized egg cell gives rise to a specific plant or animal by combining fundamental genetics with essential embryology. Along the way, some “up to date” molecular and cellular mechanisms that control development will be introduced. A series of lectures on the function of major organ systems of plants and animals will reveal the importance of bioenergetics in plant and animal life; how the diversity of body forms evolve from, and adapts to, changes in the external environment; and how regulatory systems maintain favourable internal environments of the individual. The subject will end with a brief account of the integration of plants and animals into ecosystems.

Contact hours: 3 hours lectures; 3 hours laboratory sessions per week
Assumed Knowledge: HSC Maths and Chemistry desirable

BIOL1030 Biological Data Evaluation
Unit Value: 10

This subject is limited to students enrolled in B.Sc (Biotechnology)

This course seeks to develop an understanding of the scientific process and data evaluation. Problem solving in biotechnology and biomedical science is introduced using the scientific method and critical thinking. The subject is divided into four linked components. Life science themes (component 1), central to understanding the modern Biological Sciences, who were responsible for key discoveries, are used to emphasise the process of discovery and critical reasoning. Data is collected in relation to these themes and used in the computing and bioinformatics components of the subject. Experimental biostatistics (component 2) considers data presentation, statistical distributions and testing, estimation statistics, sampling and experimental design. Computer applications (component 3) support other components of the subject and considers software specifically intended to compile, analyse, manage and display text and numerical data. Library and information networks (component 4) develops skills in accessing information utilizing library catalogues, internet protocols and internet resources and email.

Contact hours: Lectures - 26 hours, Laboratories - 6 hours, Computer Labs - 26 hours, Biotastatistics Labs - 12 hours, Library tutorials - 10 hours
Assumed Knowledge: 2 unit maths is recommended.

BIOL1040 Introduction to Biology I
Unit Value: 10

Introduces students to Biology, with particular emphasis on cells and plants. Together with the second semester subject, this subject forms the basis for subsequent study in the biological sciences. It is an essential component for those intending to undertake a major in Marine Science, Sustainable Resource Management, Food Science or Human Nutrition. Students not intending to progress in biology will find it a useful insight into structure and function of cells and the great diversity of plant life.

Contact hours: 6 hours per week
Assumed Knowledge: No prior knowledge of biology required

BIOL1050 Introduction to Biology II
Unit Value: 10

Introduces animal biology and general processes, cellular events and development, genetics and evolution, an overview of viruses, bacteria and viruses, providing the necessary background for further studies in the life sciences. These topics form the core of the subject. In addition, students may select between two units. One unit provides an overview of animal biology and systems and forms the basis for further studies in Marine Science, Sustainable Resource Management or general biological sciences. The other unit provides an introduction to human anatomy and physiology, designed to permit more advanced study in this area in second year. This unit is designed for students in food technology or human nutrition.

Contact hours: 6 hours per week
Assumed Knowledge: No specific prior knowledge is assumed. However, to facilitate success in the subject, it is desirable to have completed prior learning in some science subjects in senior secondary school (or equivalent alternate study, such as Open Foundation). The completion of HSC Biology (or equivalent), BIOL104C or BIOL101 is considered highly desirable but not essential.

BIOL1110 introductory Biology: Ecosystems and Communities
Unit Value: 10

Introduces students to the range and complexity of ecosystems and communities. A number of local systems will be compared. Threats and problems associated with these systems will be discussed. Students who have already passed one of BIOL101 or BIOL102 will complete their pair of introductory biology subjects with BIOL102 or BIOL101 respectively. These subjects will continue to be offered and will provide an adequate although not as focussed a background for all BIOL200 level subjects in the environmental area. The subject investigates the characteristics of Australian flora and fauna and their adaptations to the environment. The stability and function of ecosystems will be discussed in terms of the energetics and cycling of material. The emphasis is on the application of biological principles to real ecological problems.

Contact hours: 3 lecture hours, 3 hours practicals or equivalent in field work per week
Assumed Knowledge: 4 unit HSC Science and 2 unit HSC Maths desirable.

BIOL1120 Intro Biol: Populations, Genetics and Evolution
Unit Value: 10

Introduces students to populations and the factors influencing changes in numbers. The problem of whether population numbers are regulated or merely respond to environmental factors is posed. The effect of the increasing human population and its use of natural resources is discussed. Students are introduced to the way variation is maintained in biological systems and how it is passed from one generation to the next.

The theory of genes, their function and replication is discussed. Speciation and evolution are explained as a consequence of genetics and the interaction between organisms and their environment. The emphasis is on the application of biological principles to real ecological problems.

Contact hours: 3 hours lectures, 3 hours practicals or equivalent in field work
Assumed Knowledge: 4 unit HSC Science and 2 units HSC Maths desirable

BIOL1200 Introduction to Biology for Psychology
Unit Value: 10

Introduces students studying psychology to the science of biology as a precursor to further studies in psychological psychology within the Bachelor of Psychology Program.

Students are introduced to the scientific methods involved in biology as well as key topics areas of biology. Speciation and evolution are explained as a consequence of genetics and the interaction between cells, organisms and their environment. Animal behaviour is discussed in relation to these factors and students are introduced to techniques for studying behaviour.

NOT to count with BIOL 1010 or BIOL 1120
Assumed Knowledge: None

BIOL2010 Biochemistry
Unit Value: 10

Introduces the diversity of biological molecules of central importance in living systems and show how their structures relate to function. The smaller biomolecules such as amino acids, nucleotides and sugars have important metabolic functions and are also utilised for the synthesis of larger macromolecules such as proteins, DNA and polysaccharides. The metabolic processes that occur in cells will be presented with a view of showing how biochemical reactions and pathways are mediated and controlled. These cellular processes are central for providing energy and precursors for biosynthesis, and allow cells to interact with other cells and their environment.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week
Assumed Knowledge: CHEM101, CHEM102, BIOL101 and BIOL102 or equivalent

BIOL2020 Animal Physiology and Development
Unit Value: 10

Provides an understanding of the basic principles of the physiology and development of mammals. The subject focuses on the processes involved in the transport of oxygen from the environment to an animal’s mitochondria where it is used in the production of energy. The main course topics are, measurement of energy metabolism, transport of solute across membranes and tissue, and the role of transport proteins, differentiation and function of tissues, haemodynamics of the vascular system, processes and limitations of oxygen transport, and control of the cardiovascular and respiratory functions.

Contact hours: 3 hours lectures, 3 hours laboratory sessions per week
Assumed Knowledge: BIOL101 and BIOL102

BIOL2020 Animal Physiology and Development
Unit Value: 10

Provides an understanding of the basic principles of the physiology and development of mammals. The subject focuses on the processes involved in the transport of oxygen from the environment to an animal’s mitochondria where it is used in the production of energy. The main course topics are, measurement of energy metabolism, transport of solute across membranes and tissue, the role of transport proteins, differentiation and function of tissues, haemodynamics of the vascular system, processes and limitations of oxygen transport and control of the cardiovascular and respiratory functions.

Contact hours: 3 hours lectures, 3 hours laboratory sessions per week
Assumed Knowledge: BIOL101 and BIOL102
BIOL2040 Cell and Molecular Biology

Unit Value: 10

Includes a study of cellular organisation and inter-relationships. Students examine the structure and function of organelles, as well as cellular processes.

Contact hours: 3 hour lectures; 3 hour laboratory sessions per week

Assumed Knowledge: BIOL101 & BIOL102

BIOL2050 Molecular Genetics

Unit Value: 10

This subject provides the core information required for an understanding of molecular biology and genetics and will examine the role of genes in the storage of information. The central dogma of molecular theory will be examined in detail. The mechanisms of transferring information from one generation to the next, including transcription and replication, and the process of reading the information will be discussed. Questions to be addressed include: What is a gene? What are genes made of and where are they located? How does a gene exert its effect? How is a gene mutated? How is a gene inherited? How are different genes maintained in a population? The subject will consider tumour suppressor genes as general models of population growth and how these are affected by the environment and complex behaviour patterns are covered. It examines the question whether population numbers are regulated or merely responding to the environment. It discusses species diversity, and distribution models, similarity between communities and multivariate analysis methods, and application of island biogeography concepts to designs of biological reserves. Australian case studies are to illustrate concepts. An understanding of the relationships between populations and the environment is essential for anyone working in the environmental area.

Central Coast:

Introduces students to important concepts and methodologies in the field of ecology, covering various topics including evolution, population dynamics, inter and intra-specific interactions (e.g. competition, predation), introduced species and biological control, community analysis, species diversity, succession and ecosystem ecology.

Students will become familiar with the collection and handling of quantitative data and will develop the required skills for scientific reporting and presentation.

Contact hours: 3 lecture hours and 3 laboratory hours or equivalent per week.

A compulsory 2 day excursion will be held in the week prior to the start of the semester.

Assumed Knowledge: Callaghan:

(BIOL111 and BIOL112) or (BIOL101 and BIOL102)

BIOL2080 Cellular Biochemistry

Unit Value: 10

The primary processes of carbon fixation by photosynthesis and nitrogen assimilation will be presented in the context of plant cell structure with specific reference to chloroplast function. Complex organisms are composed of cells integrated into tissue and organ systems. The course will then present some of the basic types of communication between cells, their tissues and organs required for full body function. The mechanisms via which the cells receive the messages, internalize the signal and react to stimuli will be discussed.

Contact hours: 3 hours lectures; 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101, BIOL102, BIOL201

BIOL2090 Microbial Biology

Unit Value: 10

This subject is fundamental to technologies in the life sciences. It is a general microbiology course that covers basic microbiological concepts and techniques to include the major microbiological groups of Virus, Archaea, Eubacteria, and their biological interaction in the environment and in disease.

The lecture program covers basic microbial concepts taking a historical approach and illustrates the development of important advances in characterising the major microbial sub-groups. Following this, the relevance of microbes to the environment, disease and the food industry is discussed.

Contact hours: 3 hours lectures; 3 hours laboratory sessions per week

Assumed Knowledge: BIOL101 and BIOL102

BIOL2200 Plant Cell Development

Unit Value: 10

Introduces biological principles and concepts underlying cell division, expansion and differentiation of plant cells. This provides exciting insights into developmental responses to environmental cues and stresses, and a platform for exploring innovative modifications to improve performance in managed ecosystems. The subject begins by providing a whole plant context, followed by an analysis tracing a cell through division, expansion and differentiation. Key molecular and cellular events are highlighted. An emphasis is placed on understanding fundamental mechanisms. Attention is paid to how mechanisms are regulated to determine rates and directions of cell development, to a foundation for innovative molecular modifications of plant development.

Contact hours: 3 lecture hours, 3 hours practical workshops per week

Assumed Knowledge: BIOL101 and BIOL102.

BIOL3020 Reproductive Physiology and Development

Unit Value: 10

The subject is designed to provide a basic understanding of reproductive physiology and development in mammals for those students who wish to major in biology, cell and molecular biology, biotechnology or environmental science. The course focuses on one theme: the processes involved in the specialization of gametes and how their development is synchronized in males and females to achieve fertilization. Within this context, the course considers: the processes involved in sexual differentiation; the specialization of the male and female gametes and how they achieve fertilization and subsequent development; and the reproductive strategies which have been adopted in order to achieve fertilization and birth at the most suitable times of the year. The roles of the endocrine system and signal transduction processes in controlling reproduction are examined. Typical examples of reproductive adaptations and technologies are considered, such as the evolution of reproduction in humans, the development of contraceptive methods for humans and pest animals, and cloning technologies

Contact hours: 3 hours lectures each week; 6 hours laboratory alternate weeks

Assumed Knowledge: BIOL101 and BIOL102

BIOL3030 Environmental Plant Physiology

Unit Value: 10

Focuses on quantitative environmental effects on plant productivity. The approach is both holistic and quantitative with a strong emphasis on developing a mechanistic understanding of relevant plant functions. This background forms the basis to interpret and predict whole plant responses to environmental perturbations. The course begins with an examination of the sub-components that collectively make up whole leaf photosynthesis using an electrical analogue approach to model the overall process. Particular attention is given to carbon dioxide transfer and carboxylation with consideration of adaptations of these processes to solve environmental problems. Mineral ion acquisition from the soil solution is addressed by elucidating the factors involved in determining the total transfer of ions to the soil/root surface where assimilation takes place. Consideration is also given to physiology of lateral ion transfer to the xylem. The final section of the course examines how the assimilated products of photosynthesis and mineral ion acquisition are transported to and distributed between the various growth centers. This final transfer is a key determinant of plant productivity.

Contact hours: 3 hours lectures, 3 hours laboratory sessions per week (or equivalent)

Assumed Knowledge: BIOL101; BIOL102; BIOL222.

BIOL3050 Immunology

Unit Value: 10

The course will begin with a lecture on differences between innate and acquired immunity. Antigens, antibodies, T cell receptors will be presented at a molecular level.

Then the nature of antigen-antibody interactions including complement function will be presented. The molecular insights gained here will then be used to explain the response of lymphocytes to antigens. The pivotal roles of the cytokines will be included here.

The mode of delivery will primarily be by lectures and laboratory workshops.

Contact hours: 3 hours lectures; 3 hours laboratory sessions per week (or equivalent)

Assumed Knowledge: BIOL101; BIOL102; BIOL222.

BIOL3090 Molecular Biology

Unit Value: 10

This course is divided into two major sections the first covers the techniques used to identify genes and manipulate them for experimental purposes. The second considers gene regulation in eukaryotic cells using diverse examples including genes involved in the immune response, genetic disease, and the molecular biology of Human Immunodeficiency Virus (HIV).

Contact time: 3 hours lecture & 3 hours laboratory per week (or equivalent)

Assumed Knowledge: BIOL205

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BIOL3100 Microbiology Unit Value: 10
Microbiology will cover a series of integrated themes including evolution and cell structure, microbial growth and metabolism, overview of microbe structure and function, how microorganisms interact in symbioses and cause disease, and microbes in the environment.
Contact time: 3 hours lecture & 3 hours laboratory per week (or equivalent)
Assumed Knowledge: BIOL101, BIOL102, BIOL208

BIOL3110 Environmental Biology Unit Value: 10
Compulsory excursion prior to semester
This subject extends BIOL207 Ecology by applying the major principles of population dynamics to specific problems. This subject investigates population management problems, (a) theoretical basis of weed and pest control and evaluation of various strategies and (b) the exploitation of wild populations such as kangaroos, fish and whales. The long-term sustainability of various strategies is considered. The application of biological succession theory to restoration of disturbed habitats and fire management is considered. Some aspects of behavioural ecology important to the understanding of biological systems are investigated. On the excursion students will be given experience in using standard methods of vegetation description and use the results to analyse relationships between communities.

BIOL3140 Plant Development Unit Value: 10
This is an advanced level subject designed to build on knowledge of plant science acquired in BIOL 102 and BIOL 206. It provides a comprehensive appreciation of the significance of plant development to the biosphere. The subject commences by introducing concepts of plant development and proceeds to treating developmental processes and their regulation at the molecular level in response to chemical and environmental signals. Plant embryogenesis, germination and seedling growth are considered together with photomorphogenesis. The development of vegetative organs from apical and lateral meristems is used as a focus to provide examples of the concepts of development. The leaf, an organ of finite growth, is used to illustrate initiation, development to maturity, senescence and abscission of a plant organ. The subject is completed with the question of development for maintenance of the species, that is, transition from a vegetative to a floral apex. The genetic basis of floral organ formation is explored. The subject provides an opportunity to hone skills in developing a logical argument, analysis and interpretation of experimental data, and verbal and written communication.
Contact hours: 3 hours lectures, 3 hours laboratory sessions (or equivalent)
Assumed Knowledge: BIOL101, BIOL102 and BIOL206

BIOL3150 Plant Molecular Biology Unit Value: 10
Plant Molecular Biology emphasizes aspects of molecular biology that are particularly related to plants but also contributes to the broader understanding of cellular differentiation and gene expression. The subject is organized into four main sections. The first section is concerned with the three genomes in plants (as opposed to two in animals) and their cooperation to integrate the metabolism, growth and development of the plant cell. The sequencing of the plant nuclear genome will soon join the plant chloroplast and mitochondrial genomes in being completely sequenced. Cell and tissue culture and totipotency are considered in the second section, with emphasis on how plants can be regenerated from somatic cells. In the third section procedures for the production of transgenic plants are considered and how genetic engineering is utilised for introducing genes for molecular breeding for disease and insect resistance, molecular farming, and for the study of gene expression. Plant Biotechnology has been a natural outgrowth of Plant Molecular Biology, and its significance is discussed. In the final section, the regulation of plant growth and development is examined with the focus on the molecular biology of hormone and phytocrome action. The laboratory courses is integrated with the lecture course and tutorials and workshops supplement the lectures and laboratory classes.
Contact time: 3 hours lecture & 3 hours laboratory per week (or equivalent)
Assumed Knowledge: BIOL205 Molecular Genetics

BIOL3160 Cell Biology Unit Value: 10
This subject begins with a general overview of the organisation and function of the different structures and subcellular organelles within a typical eukaryotic cell. Incorporated into this overview is a summary of the major experimental techniques used in modern cell biology to investigate both the structure of the cell and the function of its constituent proteins. The course then focuses more closely on selected topics of cellular structure and function; these include the cytoskeleton and its role in cell motility, subcellular organisation and cell division; cell signalling and intracellular messenger systems; pathways of intracellular protein sorting and the different mechanisms for targeting proteins to different organelles, and mechanisms of secretion of proteins into the external environment. Discussion of most topics is expanded by examining recent experimental evidence gained from the study of plant and animal cells.
Contact time: 3 hours lecture & 3 hours laboratory per week (or equivalent)
Assumed Knowledge: BIOL201, BIOL205, BIOL208

BIOL3190 Wetland Ecology Unit Value: 10
Investigates the how and why of wetland ecology and management and integrates biological, chemical, and physical concepts in techniques for wetland conservation. Sociological, political, and economic concepts as they pertain to wetland management also will be addressed. A number of local wetland ecosystems (estuaries, riverine systems, freshwater wetlands) will be examined.
The mode of delivery will be by lectures, and laboratory classes and field excursions in line with other third-year science courses. Prospective students should have a thorough background in ecological principles and quantitative techniques.
Assumed Knowledge: BIOL2070-Ecology; appropriate prior knowledge is assumed.

BIOL3200 Cellular Biotechnology Unit Value: 10
The purpose of this course is to provide students with grounding in techniques that are frequently used in biotechnology research. Techniques such as the use of plase display libraries to create molecular diversity, monoclonal antibody production, advanced molecular biology techniques, epitope mapping, the analysis of signal transduction cascades, animal cloning, in vitro fertilization and toxicity testing are all covered in this course. The way in which these techniques are integrated in the development of research strategies to solve biotechnology problems then constitutes the problem-solving component of the course. A series of biotechnology problems are presented one of which has to be selected and used as the basis for formulating a position paper and research strategy. Most of the examples that are used to illustrate this course come from the area of reproductive science although students are free to select alternative themes for their project work if they desire. The course culminates in an oral presentation describing the background behind a particular biotechnology problem and the research strategy that would be followed in pursuit of a solution.
In addition to the position paper and presentation of research strategy the course comprises 25 lectures, 24 tutorials and 4 labs.
Assumed Knowledge: BIOL316, BIOL305, BIOL205, BIOL223

BIOL3210 Biotechnology Practice Unit Value: 40
Available for Bachelor of Science (Biotechnology) students only. Biotechnology practice is a placement in a practicing biotechnology environment in the Private, Public or University sector. This subject is the final part of the degree program with students having completed two hundred credit points before proceeding to this subject. Each placement will have defined objectives which are refined through electronic communication with the student’s supervisor and result in a proposal setting out the objectives. Students are required to report on the context of the placement in the Biotechnology industry as well as their workplace activities. A full appreciation of the organisation is required as well as an appreciation of how the student’s activities relate to the organisation’s objectives. At the end of the placement a final report will be required addressing in detail all the objectives of the proposal together with a seminar and viva. Placements will be organized in such areas as vaccine, biomolecular, plant, molecular genetics, reproductive, biomedical and veterinary based biotechnologies.
Contact hours: A thirteen week placement commencing at the beginning of semester two.
Assumed Knowledge: Students doing this subject should have completed all other subjects in the degree program i.e. 300 credit points.

BIOL3220A Microbiology and Immunology (N & D) (Part A) Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Microbiology will cover a series of integrated themes including evolution and cell structure, microbial growth and metabolism, overview of microbe structure and function, how microorganisms interact in symbioses and cause disease, and microbes in the environment.
The mode of delivery will primarily be by lectures and laboratory workshop sessions in line with other biological subjects in third year.

BIOL3220B Microbiology and Immunology (N & D) (Part B) Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
The second semester will begin with a lecture on differences between innate and acquired immunity. Antigens, antibodies, Tcell receptors will be presented at a molecular level. Then the nature of antigen-antibody interactions including complement function will be presented. The molecular insights gained here will then be used for targeting proteins to different organelles, and mecha-
BIOL4110  Biology Honours 411  
Unit Value: 20

The Honours Program in Biological Sciences is designed to develop students who possess the skills required for research and other career pathways.

Designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literature; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques. Depending upon the project selected each student will be assigned to one of the four research groupings within the department (Ecology, Development/Physiology, Plant Science and The Collaborative Pain Research Unit). Each research group conducts a series of workshops aimed at developing in students a sound knowledge of the research techniques and methodologies that are utilized in their research area. This workshop component runs through both semesters.

Contact hours: 3 one hour lectures for 4 weeks, then 1 hour workshop per week for 24 weeks

Assumed Knowledge: A major in the appropriate sub-discipline with a credit point average at 300 level.

BIOL4120  Biology Honours 412  
Unit Value: 20

The Honours Program in Biological Sciences is designed to develop students who possess the skills required for research and other career pathways.

Designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literature; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques. Depending upon the project selected each student will be assigned to one of the four research groupings within the department (Ecology, Development/Physiology, Plant Science and The Collaborative Pain Research Unit). Each research group conducts a series of workshops aimed at developing in students a sound knowledge of the research techniques and methodologies that are utilized in their research area. This workshop component runs through both semesters.

Contact hours: 3 one hour lectures for 4 weeks, then 1 hour workshop per week for 24 weeks

Assumed Knowledge: A major in the appropriate sub-discipline with a credit point average at 300 level.

BIOL4210  Biology Honours 421  
Unit Value: 20

The Honours Program in Biological Sciences is designed to develop students who possess the skills required for research and other career pathways.

Designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literature; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques. Depending upon the project selected each student will be assigned to one of the four research groupings within the department (Ecology, Development/Physiology, Plant Science and The Collaborative Pain Research Unit). Each research group conducts a series of workshops aimed at developing in students a sound knowledge of the research techniques and methodologies that are utilized in their research area. This workshop component runs through both semesters.

Contact hours: 3 one hour lectures for 4 weeks, then 1 hour workshop per week for 24 weeks

Assumed Knowledge: A major in the appropriate sub-discipline with a credit point average at 300 level.

BIOL4220  Biology Honours 422  
Unit Value: 20

The Honours Program in Biological Sciences is designed to develop students who possess the skills required for research and other career pathways.

Designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literature; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques. Depending upon the project selected each student will be assigned to one of the four research groupings within the department (Ecology, Development/Physiology, Plant Science and The Collaborative Pain Research Unit). Each research group conducts a series of workshops aimed at developing in students a sound knowledge of the research techniques and methodologies that are utilized in their research area. This workshop component runs through both semesters.

Contact hours: 3 one hour lectures for 4 weeks, then 1 hour workshop per week for 24 weeks

Assumed Knowledge: A major in the appropriate sub-discipline with a credit point average at 300 level.

BIOS4010A  Biostatistics (Part A)  
Unit Value: 10

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Provides an introduction to statistical thinking, making extensive use of examples from the medical literature. Students will be required to perform statistical analysis using a software package, however, the emphasis is on appropriateness and interpretation of analyses, rather than on the technical and computing aspects. The subject is designed for students with no prior training in statistics.

Contact hours: 2 hours per week

Assumed Knowledge: three year approved degree program

BIOS4010B  Biostatistics (Part B)  
Unit Value: 10

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Provides an introduction to statistical thinking, making extensive use of examples from the medical literature. Students will be required to perform statistical analysis using a software package, however, the emphasis is on appropriateness and interpretation of analyses, rather than on the technical and computing aspects. The subject is designed for students with no prior training in statistics.

Contact hours: 2 hours per week

Assumed Knowledge: Basic mathematical concepts; CCEB431 Part A

BLDG1010  Building Materials 1  
Unit Value: 5

This course is available to off-shore students only.

Deals with understanding the properties, characteristics and usage of materials used in residential and simple commercial buildings, and to understand the behaviour of major building materials under fire. Topics include: Building materials: such as timber, glass, masonry, concrete and metals; their manufacture and preservation, standard sizes, properties (strength, conductivity, insulation, thermal transmission, movement) and usage. Behaviour of dissimilar materials: used in combination focusing on factors such as corrosion, separation, protection. Classification and selection of materials in construction. Behaviour of materials under fire and floor tiles and finishes. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Not Applicable

BLDG1020  Building Services 1  
Unit Value: 5

This course is available to off-shore students only.

Deals with understanding the basic principles of the design and installation of common building services such as water supply, drainage, waste disposal, electrical services , fire protection and lifts. Topics include: Water supply: includes mains supply, private supply; cold water storage and distribution; cold water supply system for buildings; hardness of water; materials used for pipes, taps and valves; pipe sizing for hot and cold water installations and population estimation. Drainage installations: deals with estimation of flow; design considerations and waste and soil pipes. Appliances and fittings: focuses on sanitary appliances; arrangements and requirements of good sanitary appliances; traps; rainwater pipes and gutters and subsoil drainage. 

Sewage disposal: deals with the treatment methods; septic tanks; surface water drainage. Lifts, escalators and other mechanical circulation systems; fire-fighting and fire alarm systems and electrical services. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Not Applicable

BLDG1030  Building Science 1  
Unit Value: 5

This course is available to off-shore students only.

Deals with understanding of the principles of natural and artificial lighting, sound transmission and insulation and thermal transmission and insulation.

Topics include: Lighting; Sound transmission and insulation; Thermal transmission and insulation.

Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Not Applicable
**BLDG1040 Building Technology & Construction 1**

**Unit Value:** 5

This course is available to off-shore students only.

Provides an understanding of footing systems for low to medium rise buildings, floor framing and construction, roof framing and truss construction, different door types, different window types and conventional brick constructions. Topics include: Footing systems: deals with pad footings; strip footings; raft footings and design principles, construction and applications. Floor construction: focuses on terminology; design principles; floor framing; RC floor (slab on ground, suspended slabs); timber floors and composite floors. Roof construction: includes terminology; roof framing; roof trusses and sizes of roof members. Doors: focuses on terminology; design principles and different door types (flush, panelled, sliding, folding etc sizes). Windows: deals with terminology; design principles and different window types (casement, top-hung, etc. sizes). Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** Not Applicable

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**BLDG1100 Management 2 (Personal & Profess)**

**Unit Value:** 5

This course is available to off-shore students only.

Promotes the development of problem solving skills; time management skills and communication and negotiation skills.

Topics include: Creative problem solving: focuses on identifying problem parameters; data collection; generation of alternative solutions; evaluation; selection and implementation and monitoring and refinement. Time management: includes prioritisation; dairies; time planning and managing work and study commitments. Communication and negotiation: deals with verbal communication; non-verbal communication and negotiation skills. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** Nil

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**BLDG1110 Surveying 1**

**Unit Value:** 5

This course is available to off-shore students only.

Creates an understanding of the concepts of surveying and the activities of land surveyors; awareness of the range of equipment and techniques used in land surveying and ability to carry out measurement, setting out and levelling tasks on site. Topics include: Introduction: involves definitions; uses of surveying; types of surveying and instruments used in surveying. Chain surveying: focuses on equipment and techniques; types of error; error corrections; recording and plotting the survey and overcoming field problems. Levelling: deals with instruments; levelling instruments; optical principles; instrument adjustments; recording and reductions; reciprocal levellings; curvature and refraction; contouring; the direct method; the indirect method and setting out. Practicals: include measurement; levelling and setting out. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** Nil

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**BLDG1120 Surveying 2**

**Unit Value:** 5

This course is available to off-shore students only.

Promotes understanding of the principles of compass surveying, such as, plane-table surveying and ability to use a theodolite. Topics include: Compass surveying: deals with the compass; whole circle bearing and reduced bearing; declination and magnetic bearing; sources of error; error correction and plot for compass surveying. The theodolite: involves types of theodolites; construction and adjustments; procedure, setting up and measurement of angles; trigonometrical levelling and transverse survey. Plane-table surveying: focuses on the plane-table, accessories, uses; plane-table surveying methods; intersection or triangulation, radiation, transversing; resection or the three point problem and plot for plane-table surveying. Practicals: includes use of theodolite; compass surveying exercise and plane-table surveying exercise. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** BLDG1110

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**BLDG1130 Drawn Communication**

**Unit Value:** 5

This course is available to off-shore students only.

Aims to understand the information contained in architectural drawings and to be able to draw and annotate simple working drawings. Topics include: Drafting materials and equipment: lettering, annotation and Symbols; working drawings - draw working drawings from plans, elevations and sections and annotate as appropriate for particular specifications; detail drawings; Services drawings. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** Nil

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**BLDG1140 Written Communication 1 (Technical English)**

**Unit Value:** 5

This course is available to off-shore students only.

The purpose of this course is to develop competence in the techniques of writing. Topics include: Creative problem solving: focuses on identifying problem parameters; data collection; generation of alternative solutions; evaluation; selection and implementation and monitoring and refinement. Time management: includes prioritisation; dairies; time planning and managing work and study commitments. Communication and negotiation: deals with verbal communication; non-verbal communication and negotiation skills. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** Nil

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**BLDG1150 Written Communication 2 (Technical Writing)**

**Unit Value:** 5

This course is available to off-shore students only.

Aims to develop a competence in technical and business writing. Topics include: Exposition, involves technical arrangement; exemplification; narrative; definition; classification and division; comparison and contrast; casual analysis; analogy and effective exposition; exercises and vocabulary; achieving a clear style; progress report; correspondence; types of letters. Classes will be held at Kolej WIT, Malaysia.

**Assumed Knowledge:** BLDG114

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**Guide to Undergraduate Programs - 2002**
BLDG1160 Introduction to Computers
Unit Value: 5
This course is available to off-shore students only.
Aims to provide the basic knowledge required to use a personal computer and common business software applications. Topics include: Introduction to computers, hardware, printers, floppy disks, hard disks, software, operating systems; MS-Windows, Works for Windows, documents, word-processing, spreadsheets, database and computer graphics; BASIC, PASCAL, flowcharts and programs, structured programming and applications to engineering courses; DOS. Classes will be held at Kolej WIT, Malaysia.
Assumed Knowledge: Nil

BLDG1190 Structures 1
Unit Value: 5
This course is available to off-shore students only.
Provides an understanding of the basic concepts and theory in structures and the ability to carry out scheduling of steel reinforcement. Topics include: Shear force and bending moments; Analysis of determinate frames, method of different sections, graphical methods: Slope and deflection; focuses on the relationship between slope, deflection and radius of curvature; double integration method, simply supported beam with a control point load, eccentric point load, uniformly distributed load and a gradually varying load and moment area method. Macaulay’s method. Cables and Suspension Bridges: deals with cables with distributed loads and point loads and temperature stresses in cables. Columns: Scheduling of steel reinforcement. Classes will be held at Kolej WIT, Malaysia.
Assumed Knowledge: Nil

BLDG1210 Building 121
Unit Value: 25
Introduces students to problem-based learning and the importance of the application of professional values, ethics and principles both in their studies and later professional practice. Basic Skills: An Existing Building (House). The ability to communicate written and graphic descriptions of building components is developed.
Contact hours: Internal students: 12 hours per week
External students: Up to 9 hours study per week
Assumed Knowledge: Nil

BLDG1220 Building 122
Unit Value: 15
Examines the process of how buildings are procured. Students gain an appreciation of the technical, economic and management considerations fundamental to the procurement of a new building.
Assumed Knowledge: Concurrent Assumed Knowledge: BLDG1210

BLDG1230 Building 123
Unit Value: 15
Considers the economic, financial, ethical and business planning concepts relevant to starting up business as a building contractor; the technology of domestic/residential scale construction, estimating using builders quantities, and project time planning.
Assumed Knowledge: BLDG1210, BLDG1220, BLDG1230

BLDG1240 Building 124
Unit Value: 25
Examines building science concepts, energy economics and Ecological Sustainable Development (ESD). Feasibility, the Development Process, Subdivision: Group or Cluster Housing Development. Students consolidate their conceptual understanding to date through exploration of the role of the developer, including consideration of: general economic theory, the structure of the construction industry, development approval mechanisms, project feasibility, multi-dwelling domestic construction and business planning.
Assumed Knowledge: BLDG1210, BLDG1220

BLDG1310 Building 1310
Unit Value: 30
Introduces students to problem-based learning and the importance of the application of professional values, ethics and principles both in their studies and later professional practice. Basic Skills: An Existing Building (House). The ability to communicate written and graphic descriptions of building components is developed.
Assumed Knowledge: Nil

BLDG1320 Building 1320
Unit Value: 10
Examines the process of how buildings are procured. Students gain an appreciation of the technical, economic and management considerations fundamental to the procurement of a new building.
Assumed Knowledge: Concurrent Assumed Knowledge: BLDG1310

BLDG1330 Building 1330
Unit Value: 10
Considers the economic, financial, ethical and business planning concepts relevant to starting up business as a building contractor; the technology of domestic/residential scale construction, estimating using builders quantities, and project time planning.
Assumed Knowledge: BLDG1310, BLDG1320

BLDG1340 Building 1340
Unit Value: 30
Examines building science concepts, energy economics and Ecological Sustainable Development (ESD). Feasibility, the Development Process, Subdivision: Group or Cluster Housing Development. Students consolidate their conceptual understanding to date through exploration of the role of the developer, including consideration of: general economic theory, the structure of the construction industry, development approval mechanisms, project feasibility, multi-dwelling domestic construction and business planning.
Assumed Knowledge: BLDG1310, BLDG1320, BLDG1330

BLDG1520 Building 152
Unit Value: 25
Enrollment requires Head of Department approval - outgoing transition course.
Covers the syllabus and content of BLDG1220 and BLDG1230 during one semester of part-time, external study.
Assumed Knowledge: BLDG1510

BLDG1530 Building 153
Unit Value: 25
Enrollment required Head of Department approval - outgoing transition course.
Covers the syllabus and content of BLDG1240 during one semester of part-time external study.
Assumed Knowledge: BLDG1520

BLDG2010 Building Materials 2
Unit Value: 5
This course is available to off-shore students only.
Aims to provide understanding of the properties and uses of various types of cement; the design and use of concrete for various uses; the methods of transporting and placing concrete and be able to carry out tests on mixed concrete. Topics include:
- The properties and uses of a wide range of limes and cements along with: high calcium limes; agnesium limes; hydrated lime pozzalanas; different types of cements; Portland cements; super-sulphated cements; high alumina cement and admixtures. The use of different concrete designs for a variety of purposes and an understanding of the principles of reinforcement and formwork and quality control and testing, as well as aspects of the manufacture, transportation and placement of concrete including: mixing and batching, transportation, placements and compaction, protection, finishing and curing and construction joints; the types of lightweight concretes and their uses and the types of mortars and sand and methods of batching. Classes will be held at Kolej WIT, Malaysia.
Assumed Knowledge: Nil

BLDG2020 Building Services 2
Unit Value: 5
This course is available to off-shore students only.
Deals with basic principles of the design and installation of specialist building services such as; Heating, Ventilating and Air Conditioning, telecommunication services, building monitoring systems and understanding of planned maintenance programs. Topics include: Heating, Ventilation, Air Conditioning: including principles; different types of systems and equipment; plant room requirements (central plant, AHUs); design and installation of ducting; commissioning and maintenance. Telecommunications: focuses on PABX systems; design and installation; plant requirements; electronic data networks and maintenance requirements. Building Monitoring Systems: deals with security, energy management and intelligent building systems. Maintenance audits: includes prediction and minimisation of energy consumption, computerised maintenance programs and downtime minimisation. Classes will be held at Kolej WIT, Malaysia.
Assumed Knowledge: BLDG11020

BLDG2030 Building Science 2
Unit Value: 5
This course is available to off-shore students only.
Creates an understanding in the principles of energy efficient buildings, the causes and prevention of indoor air pollution and ways to minimise environmental impact and pollution due to building activity. Topics include: Energy efficient building: focuses on energy content of materials life-cycle analysis of energy use; reuse and recycling potential of materials and components and energy efficient building design principles (location, orientation, zoning, insulation, natural lighting and ventilation, choice of appropriate materials). Indoor air pollution: deals with the sick building syndrome; indoor air pollutants; out-gassing from materials; radon and prevention, dilution and removal of indoor pollutants. Minimisation of environmental impact of building: includes air pollution (dust minimisation, smoke and exhaust fumes); noise pollution (minimisation and timing of noising operations) and water pollution (erosion, contamination from building operations). Classes will be held at Kolej WIT, Malaysia.
Assumed Knowledge: Nil
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLDG1040</td>
<td>Building Technology &amp; Construction 1</td>
<td>5</td>
<td>This course is available to off-shore students only.</td>
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<tr>
<td></td>
<td>This course aims to create an understanding of information search techniques; systems analysis and design principles; database design and programming; database management systems; data models; decision support systems; and management information systems and decision support systems. Classes will be held at Kolej WIT, Malaysia.</td>
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<td></td>
<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1050</td>
<td>Building Technology &amp; Construction 2</td>
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<td></td>
<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1060</td>
<td>Legal Studies 1 (Planning Law)</td>
<td>5</td>
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<td>This course aims to create an understanding of information search techniques; systems analysis and design principles; database design and programming; database management systems; data models; decision support systems; and management information systems and decision support systems. Classes will be held at Kolej WIT, Malaysia.</td>
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<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1070</td>
<td>Legal Studies 2 (Building By-Laws)</td>
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<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1080</td>
<td>Management 1 (Financial Management)</td>
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<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1090</td>
<td>Management 2 (Information Management)</td>
<td>5</td>
<td>This course is available to off-shore students only.</td>
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<td></td>
<td>This course aims to create an understanding of information search techniques; systems analysis and design principles; database design and programming; database management systems; data models; decision support systems; and management information systems and decision support systems. Classes will be held at Kolej WIT, Malaysia.</td>
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<td></td>
<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1100</td>
<td>Management 3 (Construction Management)</td>
<td>5</td>
<td>This course is available to off-shore students only.</td>
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<tr>
<td></td>
<td>This course aims to create an understanding of information search techniques; systems analysis and design principles; database design and programming; database management systems; data models; decision support systems; and management information systems and decision support systems. Classes will be held at Kolej WIT, Malaysia.</td>
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<td></td>
<td>Assumed Knowledge: Nil</td>
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<tr>
<td>BLDG1110</td>
<td>Management 4 (Information Management)</td>
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<tr>
<td></td>
<td>This course aims to create an understanding of information search techniques; systems analysis and design principles; database design and programming; database management systems; data models; decision support systems; and management information systems and decision support systems. Classes will be held at Kolej WIT, Malaysia.</td>
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<td></td>
<td>Assumed Knowledge: Nil</td>
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</tbody>
</table>
Network analysis and critical path analysis are studied. Partnering and quality management arrangements in the public building sector.

This course is available to off-shore students only.

Aims to create understanding of the concept and practice of value engineering, constructability, Total Quality Management and benchmarking. Topics include: Value engineering; deals with historical overviews; concepts and principles; applications and case studies. Constructability: focuses on historical overview; concepts and principles; and applications and case studies. Total Quality Management: includes historical overviews; concepts and principles and applications and case studies. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG2190 Structures 2
Unit Value: 5

This course is available to off-shore students only.

Aims to create an understanding of structural behaviour in beams and structural frames. Topics include: Fixed beams: deals with fixing moments of a fixed beam carrying central point load, eccentric point load and uniformly distributed load. Moment distribution method: focuses on carrying over factor for prismatic sections; stiffness factors; distribution factors; and application of moment distribution method to various types of continuous beams. Analysis of indeterminate frames. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG2210 Building 221
Unit Value: 25

Addresses the basis of expertise in commercial scale building technology and site planning. The builder's role in project teams as a construction technology and management expert is explored.

Assumed Knowledge: Completion of 80 units of the program.

BLDG2220 Building 222
Unit Value: 15

Examines the role of Estimator and Quantity Surveyor in the tendering process. Students gain practical skills in measuring, estimating and preparing bills of quantities according to the Standard Method of Management.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG2210

BLDG2230 Building 223
Unit Value: 15

Presents a case study enabling students to explore issues relating to the life cycle costing implications for a commercial facility. Considers social impact, urban planning, economic and environmental issues through the preparation of a feasibility study.

Assumed Knowledge: BLDG2210, BLDG2220

BLDG2240 Building 224
Unit Value: 25

Students develop an understanding of procurement methods, risk management, partnering and quality management arrangements in the public building sector. Network analysis and critical path analysis are studied.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG2230

BLDG2310 Building 2310
Unit Value: 30

Addresses the basis of expertise in commercial scale building technology and site planning. The builder's role in project teams as a construction technology and management expert is explored.

Assumed Knowledge: Completion of 80 units of the program.

BLDG2320 Building 2320
Unit Value: 10

Examines the role of Estimator and Quantity Surveyor in the tendering process. Students gain practical skills in measuring, estimating and preparing bills of quantities according to the Standard Method of Management.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG2310

BLDG2330 Building 2330
Unit Value: 10

Presents a case study enabling students to explore issues relating to the life cycle costing implications for a commercial facility. Considers social impact, urban planning, economic and environmental issues through the preparation of a feasibility study.

Assumed Knowledge: BLDG2310, BLDG2320

BLDG2340 Building 2340
Unit Value: 30

Students develop an understanding of procurement methods, risk management, partnering and quality management arrangements in the public building sector. Network analysis and critical path analysis are studied.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG2330
Assumed Knowledge: BLDG106

BLDG3030 Legal Studies 5 (Bldg Contracts & Con Law)
Unit Value: 5
This course is available to off-shore students only.

Aims to create understanding in the elements of a standard building contract and requirements of provisions during the construction process. Topics include: Building contracts: deals with contract documents (drawings, specifications, bill of quantities, conditions of contract); parties to the contract; contract sum and period; variations; superintendence, supervision, inspections and certification; nominated subcontractors and suppliers; attendance; liquidated and ascertained damages; dispute resolution; notices; insurances; prime cost items and provisional sums and other general conditions of contract. Construction requirements: focuses on unsanitary sites; site clearance and drainage; refuse chutes; safety provisions and facilities for workers. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: BLDG106

BLDG3040 Legal Studies 6 (Industrial & Employment Law)
Unit Value: 5
This course is available to off-shore students only.

Aims to understand the industrial laws in the country and the statutory requirements of employers and contracts of employment. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: BLDG106

BLDG3050 Building Technology & Construction 5
Unit Value: 5
This course is available to off-shore students only.

Aims to understand the different types and uses of heavy plant and equipment used for construction, different types and uses of pneumatic and other equipment used for construction, and various systems of formwork used for high-rise building construction. Topics include: Heavy plant and equipment used for: excavation, grading and earth moving; lifting and hoisting; drilling, boring, compacting and driving; transporting; concrete pumps, and general types, capacities, operational requirements. Pneumatic and other equipment used for: demolition; cutting; welding and concrete mixing, placement, compaction and finishing. Formwork systems for high-rise building; shear core construction and floor slab construction. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG3060 Management 8 (Quality Management)
Unit Value: 5
This course is available to off-shore students only.

Aims to create an understanding of concepts relevant to quality management and be able to relate them to construction management and the provisions of the ISO 9000 standard for quality assurance systems. Topics include: Quality concepts and definitions; ISO 9000 standards. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG3070 Surveying 3
Unit Value: 5
This course is available to off-shore students only.

Aims to create understanding of the principles of tacheometry; the ability to calculate areas and volumes and understand the principles of curve ranging. Topics include: Tacheometry: deals with principles; stadia system; tangential system and subtense bar system. Areas and Volumes: focuses on areas of closed traverses and straight sided figures; areas of irregular figures and cross-sections; computation of volumes and mass-haul diagrams. Curve ranging: includes elements of the circular curve; setting out circular curves; transition curves and vertical curves. Practical involves setting out curves. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: BLDG112

BLDG3080 Quantity Surveying 3
Unit Value: 5
This course is available to off-shore students only.

Aims to be able to administer the financial aspects of a building contract; undertake cost planning for new building works and renovations and assess the financial feasibility of project proposals. Topics include: Contract administration, focuses on terms and conditions of contracts; claims and interim payments; variations and the rise and fall clauses. Cost planning: deals with defining scope of work; costing a design proposal and pricing alternatives. Project feasibility: involves principles and concepts; cost of capital; risk management; return on investment and time cost of money. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG3090 Economics for the Built Environment 2
Unit Value: 5
This course is available to off-shore students only.

Aims to understand market analysis and its application to the built environment and understand the “theory of the firm” in the construction industry. Topics include: Market analysis: involves market theory (supply, demand, elasticity); application of market analysis to market for housing, market for land, market for construction components and market for building labour and government intervention in land and construction markets. Theory of the firm: deals with cost and revenues, long-run planning decisions industrial structure; perfect competition, monopolistic competition, oligopoly and monopoly and the construction industry. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: Nil

BLDG3110 Industrial Training
Unit Value: 10
This course is available to off-shore students only.

Involves one month supervised industrial training with a building company or a quantity surveying practice.

Assumed Knowledge: Nil

BLDG3120 Major Project
Unit Value: 20
This course is available to off-shore students only.

Provides a capstone project for students to synthesise and assimilate all the previous learning in the program. Project Theme: Construction management of a complex project: including project planning; site organisation; risk management; cost planning and strategic construction management. Classes will be held at Kolej WIT, Malaysia.

Assumed Knowledge: All other courses in the Bachelor of Science (Building)

BLDG3160 Minor Project 2
Unit Value: 5
This course is available to off-shore students only.

Aims to provide a vehicle for problem solving involving the integration of knowledge from different discipline areas. Project Theme: Business finance, estimating, tendering: including establishment of business, business planning and tendering for a project (new house). Classes will be held at TMC, Singapore.

Assumed Knowledge: Completion of 160 units of the program.

BLDG3220 Building 322
Unit Value: 15
Students develop an understanding of the causes and symptoms of building defects and failures, and techniques of assessing building condition. Employment issues in the building industry are also considered. Location and Semester Details: Callaghan - Semester 1 Location and Semester Details: Off Campus - Semester 1.2

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG3210

BLDG3230 Building 323
Unit Value: 15
Focuses on the technical, quantity surveying and construction management principles of civil engineering works through study of road and bridge construction. Students gain awareness of ethical considerations in civil works tendering processes.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG3230

BLDG3240 Building 324
Unit Value: 25
Explores the cost and planning issues associated with the design of a major urban high-rise project. Construction cost control and management processes associated with major Central Business District developments are studied. Classes will also be held at TMC, Singapore.

Assumed Knowledge: Concurrent Assumed Knowledge: BLDG3230

BLDG3310 Building 3310
Unit Value: 30
Explores the cost and planning issues associated with the design of a major urban high-rise project. Construction control and management processes associated with major Central Business District developments are studied. Classes will also be held at TMC, Singapore.

Assumed Knowledge: Completion of 160 units of the program.
Develop an understanding of the causes and symptoms of building defects and failures, and techniques of assessing building condition. Employment issues in the building industry are also considered.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG3310

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<td>BLDG3330</td>
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Focuses on the technical, quantity surveying and construction management principles of civil engineering works through study of road and bridge construction. Students gain awareness of ethical considerations in civil works tendering processes.

**Assumed Knowledge:** BLDG3310, BLDG3320

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<tr>
<td>BLDG3340</td>
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Problems associated with the on-site production process including site organization and planning, work and resource management, disputes management and resolution. This course enables students to demonstrate the skills and knowledge acquired up to this point in the program, and display an understanding of best practice relating to key strategic management principles. Classes will also be held at TMC, Singapore.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG3300

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<tr>
<td>BLDG3520</td>
<td>Building 352</td>
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Enrolment requires Head of Department approval - outgoing transition course. Covers syllabus and content of BLDG3220 and BLDG3230 during one semester of part-time, external study.

**Assumed Knowledge:** BLDG33510

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<tr>
<td>BLDG3530</td>
<td>Building 353</td>
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Enrolment requires Head of Department approval - outgoing transition course. Covers syllabus and content of BLDG3240 during one semester of part-time, external study.

**Assumed Knowledge:** BLDG33520

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<th>Course Code</th>
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<tr>
<td>BLDG3800</td>
<td>Directed Study - Construction Management (Bldg)</td>
<td>20</td>
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</table>

The course allows students with specific academic requirements, to develop within the constraints of the existing construction management program and with academic staff input, a study program which meets their requirements. The program may involve completion of a supervised major or minor project and/or a directed reading program.

This course is not available to continuing students enrolled within the Bachelor of Construction Management (Building) or Bachelor of Construction Management (Building) - Distance Learning program.

**Assumed Knowledge:** The study program which is devised for the student will take into account previous knowledge/studies.

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The course allows students with specific academic requirements, to develop within the constraints of the existing construction management program and with academic staff input, a study program which meets their requirements. The program may involve completion of a supervised major or minor project and/or a directed reading program.

This course is not available to continuing students enrolled within the Bachelor of Construction Management (Building) or Bachelor of Construction Management - Distance Learning program.

**Assumed Knowledge:** The study program which is devised for the student will take into account previous knowledge/studies.

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<tr>
<td>BLDG4210</td>
<td>Building 421</td>
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Covers Facilities Management. The multi-faceted role of the facility manager is studied in depth, encompassing building services, equipment and property administration functions.

**Assumed Knowledge:** Completion of 240 units of the program.

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<tr>
<td>BLDG4220</td>
<td>Building 422</td>
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Introduces research methods. Students develop the ability to identify and implement appropriate research methods for a selected topic.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG4210

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<td>BLDG4230</td>
<td>Building 423</td>
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This course is only available to candidates undertaking the honours program. Research Proposal: introduces students to the principles and techniques of qualitative and quantitative research. Students will be required to design and develop a detailed research proposal and participate in compulsory seminars (on-campus students) or submit a fully documented proposal (distance learning students).

**Assumed Knowledge:** Permission of the Head of Department.

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<tr>
<td>BLDG4240</td>
<td>Building 424</td>
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This course is only available to candidates undertaking the honours program. Research Dissertation: covers the development, conduct, analysis and reporting of a piece of original empirical research, carried out under the supervision of a member of academic staff of the Department of Building.

**Assumed Knowledge:** Permission of the Head of Department

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<tr>
<td>BLDG4250</td>
<td>Building 425</td>
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Required students to undertake a major directed readings program in an approved area. On-campus students will participate in compulsory seminars whilst distance learning student will be required to submit a literature review.

**Assumed Knowledge:** BLDG4210, BLDG4220

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<td>BLDG4260</td>
<td>Building 426</td>
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Major Project: under the supervision of academic staff in the Department of Building, students will engage in the development, analysis and reporting of an investigation. The investigation will normally focus on industry-linked issues and may include a professional placement.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG4250

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<td>BLDG4310</td>
<td>Building 4310</td>
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</table>

Covers Facilities Management. The multi-faceted role of the facility manager is studied in depth, encompassing building services, equipment and property administration functions. Classes will also be held at WIT, Malaysia and TMC, Singapore.

**Assumed Knowledge:** Completion of 240 units of the program.

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<td>BLDG4320</td>
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Introduces research methods. Students develop the ability to identify and implement appropriate research methods for a selected topic.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG4310

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This course is only available to candidates undertaking the honours program. Research Proposal: introduces students to the principles and techniques of qualitative and quantitative research. Students will be required to design and develop a detailed research proposal and participate in compulsory seminars (on-campus students) or submit a fully documented proposal (distance learning students).

**Assumed Knowledge:** Permission of the Head of Department.

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This course is only available to candidates undertaking the honours program. Research Dissertation: covers the development, conduct, analysis and reporting of a piece of original empirical research, carried out under the supervision of a member of academic staff of the Department of Building.

**Assumed Knowledge:** Permission of the Head of Department

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<td>BLDG4350</td>
<td>Building 4350</td>
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Advanced Topics in Construction Management. Students will be required to undertake a major directed readings program in an approved area. On-campus students will participate in compulsory seminars whilst distance learning student will be required to submit a literature review.

**Assumed Knowledge:** BLDG4310, BLDG4320

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Major Project: under the supervision of academic staff in the Department of Building, students will engage in the development, analysis and reporting of an investigation. The investigation will normally focus on industry-linked issues and may include a professional placement.

**Assumed Knowledge:** Concurrent Assumed Knowledge: BLDG4350

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BUSN1800 Communication and E-Talk
Unit Value: 10
Addresses the range of skills necessary to communicate effectively and professionally in the information age, both in written and oral forms, using traditional and emerging media. Effective public speaking, intercultural communication and negotiation skills, are addressed. Protocols, ethics and etiquette of professional office communications and e-talk are introduced along with problem-solving techniques, and conflict and creativity in contemporary organisational interactions.
Contact hours: 2-3 hours per week.
Assumed Knowledge: None.

BUSN1900 Electronic Business
Unit Value: 10
Introduces students to the electronic concepts and tools of the modern organisation. This includes the infrastructure of the electronic business or department such as the regulatory framework and the information technology systems that underpin such organisations. The information systems that allow for the integration of organisational structures and business processes are also considered.
Contact hours: 2-3 hours per week.
Assumed Knowledge: None.

BUSN1960 The Contemporary Commercial Environment
Unit Value: 10
Examines management issues currently affecting sport and club management, in particular the organisational climate affected by the dynamic internal and external environment. Deals with contemporary sport and club topics and their impacts on financial, marketing and the human resources management of sporting and club organisations.
Contact hours: 2-3 hours per week.
Assumed Knowledge: Level 100 core subjects in the Bachelor of Management degree.

BUSN2000 New Venture Creation
Unit Value: 10
Explores the complex, diverse and dynamic processes that give rise to the birth of a successful, independent new business. Examines the new venture creation process, from the generation of a potential business idea, through the many stages to a viable new business, together the necessary resources, including the personal skills and commitment of the entrepreneur, the ability to conceive, plan and develop the venture, and the capacity to manage the process.
Assumed Knowledge: The Level 100 core subjects in the Bachelor of Management, plus the proposed new subject, Law for Managers and Entrepreneurs, MENT100.

BUSN2010 Hospitality Operations Management
Unit Value: 10
Examines management issues currently affecting sport and club management, in particular the organisational climate affected by the dynamic internal and external environment. Deals with contemporary sport and club topics and their impacts on financial, marketing and the human resources management of sporting and club organisations.
Contact hours: 2-3 hours per week.
Assumed Knowledge: HMGT201 Hospitality Operations Management

BUSN2050 Contemporary Sport and Club Management
Unit Value: 10
Examines management issues currently affecting sport and club management, in particular the organisational climate affected by the dynamic internal and external environment. Deals with contemporary sport and club topics and their impacts on financial, marketing and the human resources management of sporting and club organisations.
Contact hours: 2-3 hours per week.
Assumed Knowledge: Level 100 core subjects in the Bachelor of Management degree.

BUSN2070 Gaming Management
Unit Value: 10
Introduces students to the management of gaming in a club environment. This course focuses on the management of gaming operations including the legal, security and reporting requirements. In addition, students will gain knowledge and skills in gaming analysis, financial reporting, and marketing of gaming venues. This course will also address the socio-economic impacts of gambling to enable students to develop and apply best practices in gaming management.
Assumed Knowledge: None
BUSN2090  Introduction to the Tourism Industry
Unit Value: 10
Introduces students to tourism and the tourism industry, organisations within the industry and relevant disciplinary and interdisciplinary approaches to the study. It reviews the historical development of tourism, analyses the components within tourism and examines the organisation, management and structure of the tourism industry. The subject explores the demand, distribution, delivery and development of tourism within a regional, national and international context, providing a grounding for further studies in tourism and hospitality.
Hours of contact: Normally 2-3 hours per week.
Assumed Knowledge: Level 100 core subjects for Bachelor of Business, Bachelor of Management or Bachelor of Commerce.

BUSN2100  Entrepreneurial Diversity
Unit Value: 10
Focuses upon the rapidly increasing importance of entrepreneurial behaviour as an effective means of coping with, and taking advantage of, ever-increasing change within organisations. It examines the notions of entrepreneurship, not just within new, independent small businesses, but also within government, not-for-profit and community organisations, with a heavy emphasis upon contemporary Australian and international case studies.
Contact hours: 2-3 hours per week.
Assumed Knowledge: None.

BUSN2200  Accounting and Legal Aspects of Companies and Part
Unit Value: 10
Develops a high level of understanding of the mechanics of, and the legal issues involved in, preparing general purpose financial statements of companies and partnerships. Students will be expected to use the standards and an accounting package to prepare general purpose financial statements. The legal implications of the relevant transactions and standards will be discussed.
Assumed Knowledge: BUS196 The Contemporary Commercial Environment BUS125 Foundations of Accounting Practice

BUSN2250  The Regulatory Environment of Business
Unit Value: 10
Analyses the theory and practice behind the current Australian institutional arrangements for setting accounting standards. Accordingly the subject will use lectures, tutorials and group workshops to critically examine the interrelationship between legislation, accounting standards, ASX regulation, and professional regulation. Moreover, Australian accounting standards will be placed in an international context by analysing the move to adopt the international accounting standards in Australia.
Assumed Knowledge: BUS220 Accounting and Legal Aspects of Companies and Partnerships

BUSN2300  Value Creation Through Managerial Control
Unit Value: 10
Concerned with the effective use of resources within organisations. Organisations seek to create value for customers by configuring their internal processes to effectively and efficiently convert resources into value added products. Managing the value creation process involves determining and measuring the development of those product attributes that are important to customers. Therefore management accounting is concerned with managing time, flexibility, quality, and cost.
Contact hours: 2-3 hours per week.
Assumed Knowledge: None.

BUSN2350  Investment Decisions & Management
Unit Value: 10
Assists students in understanding the management of investments for the 21st century. It discusses available investment instruments and considers the purpose and operation of financial markets in Australia and around the world. It also provides an analysis of investment alternatives and how current investments and future opportunities should be evaluated so that a portfolio of investments may be constructed that will satisfy risk-return objectives.
Assumed Knowledge: BUS196 The Contemporary Commercial Environment BUS125 Foundations of Accounting Practice (or equivalent)

BUSN2400  Managing for Performance
Unit Value: 10
Examines the practical and conceptual skills required to create an effective workforce in today’s organisations, including the integrative planning required to carry out appropriate recruitment, selection and induction initiatives. Modern approaches to job and organisational design are analysed in the context of the overall reward packaging process. International comparisons are drawn in order to reveal the differing emphasis placed on managerial effectiveness across cultures.
Contact hours: 2-3 hours per week.
Assumed Knowledge: BUS110 - People and Profiles in Business BUS180 - Communication and e-talk

BUSN2450  Learning in Organisations
Unit Value: 10
Addresses the issue of the development of the skills and knowledge of individuals, groups and whole organisations within an organisational development framework. Areas of study include organisational, group and individual skill assessment, identification of appropriate learning interventions, use of appropriate learning technology and technical and management education strategies.
Contact hours: 2-3 hours per week.
Assumed Knowledge: BUS110 People and Profiles in the Workplace

BUSN2500  Corporate Significance of Human Resources
Unit Value: 10
Examines the relationship between business and human resource strategy in a customer-focused, global environment, and the implications for employment relations and career management today. The traditional assumption of enduring symbiotic relationships between individuals and their employers has become increasingly problematic, and different employment relationships are called for. Current issues in HRM research are addressed.
Assumed Knowledge: This is an elective subject and assumes knowledge derived from previous studies within the degree.

BUSN2550  Leadership in Contemporary Organisations
Unit Value: 10
Examines the nature of leadership, theory and practice in modern organisations throughout the world. The subject explores the evident differences and similarities in the behaviour, strategies, and achievements of leaders across a wide range of settings, including organisational size, industry type, strategic focus, and cultural orientation. Differences in leadership approaches are also analysed according to gender differences and personality styles, as well as subordinate perceptions of leadership competence, task difficulty, and opportunities or threats associated with change.
Contact hours: 2-3 hours per week.
Assumed Knowledge: A good grasp of the basic principles of management and organisations is desirable, with a reasonable understanding of introductory psychology or sociology.

BUSN2600  The Integrative Marketer
Unit Value: 10
Explores the role of marketing in the organisation. Marketing strategy and marketing research as a process are introduced and methods of obtaining data are presented. Marketing philosophies, the process of diffusion and dissemination of marketing information throughout the organisation, internal marketing and the role of the marketer in integration are discussed.
Contact hours: 2-3 hours per week.
Assumed Knowledge: BUS180 The New Marketer.

BUSN2650  Managing Marketing Messages
Unit Value: 10
Examines the nature and design of communication strategies in terms of customer-marketer interaction. Traditional theories, and the future implications of emerging technologies are considered. Wherever appropriate, the content is international in its perspective, giving due attention to problems of diversity management and to relevant issues of global management.
Assumed Knowledge: BUS160 The New Marketer BUS260 The Integrative Marketer

BUSN2700  Creating Customer Satisfaction
Unit Value: 10
Focuses on the need to work with the customer to provide customer satisfaction for both consumers and business customers. The activities of the marketer in managing the customer relationship and critical issues throughout the pre-purchase consumption and post-purchase phases are presented. The issues expected to dominate future customer decision making and satisfaction are considered. Wherever appropriate, the content is international in its perspective.
Contact hours: 2-3 hours per week.
Assumed Knowledge: BUS160 The New Marketer BUS260 The Integrative Marketer

BUSN3000  Electronic Commerce
Unit Value: 10
Examines key trends and developments emerging in the rapidly expanding field of information technology, and the opportunities these trends offer to enhance and develop businesses, as well as government, not-for-profit and community organisations. Focuses on the identification and analysis of information technology trends, developments, opportunities, and appropriate strategies for implementation.
Assumed Knowledge: All Bachelor of Management core subjects plus MENT210 Entrepreneurial Diversity.
BUSN3010 Practicum in Hotel, Sport and Club Management

Unit Value: 10

Provides students with the opportunity to utilise a range of skills and knowledge acquired throughout the Bachelor of Business and the Hotel Management and the Sport and Club Management majors in a manner that demonstrates a professional and applied understanding of the hotel, club and/or sport industry. The practicum consists of a project or an experience related to hospitality, club and/or sports management undertaken by the student under the guidance and supervision of a designated mentor within the School of Business and the organisation.

Assumed Knowledge: This is a final year, second semester course and assumes comprehensive knowledge derived from previous studies within the degree.

Hours of contact: As required (Practicum).

Assumed Knowledge: HMGT201 Hospitality Operations Management

BUSN3050 Strategic Integration and Implementation

Unit Value: 10

Integrates knowledge from diverse earlier subjects within the degree. It accommodates international and electronic environments as a part of the hospitality and sports product. This will include the role and influence of the information systems environment on the organisation and its contribution to understanding contemporary organisational effectiveness, and their subsequent impact upon social and organisational structures. Diagnostic models and theories are evaluated in terms of their contribution to understanding contemporary organisational effectiveness, and emerging organisational forms assessed in terms of their impact on the nature of work and organisational change in the immediate future. The major mode of delivery for this subject is in electronic form, with detailed lecture material, research tasks and assignments available to distance students.

This subject is offered both on-campus and by distance learning mode.

Contact hours: 2-3 hours per week

Assumed Knowledge: A knowledge of basic management principles and practices would be an advantage, as would a knowledge of international human resources management challenges.

BUSN3180 Event and Facility Management

Unit Value: 10

Adopts a systematic approach to the planning and management of events and specialised facilities. Students develop an understanding of the context, significance, roles and responsibilities of industry elements in the management and function of such events and special facilities as a part of the hospitality and sports products. The subject is in electronic form, with detailed lecture material, research tasks and assignments available to distance students.

This subject is offered both on-campus and by distance learning mode.

Contact hours: 2-3 hours per week

Assumed Knowledge: HMGT209 Introduction to the Tourism Industry

BUSN3200 History and Development of Accounting Thought

Unit Value: 10

Examines the origins and development of the theoretical underpinnings of contemporary practice of accounting as a mechanism for providing information on the wealth and progress of business enterprises; the seminal contributions and debates in the literature; and the actions and reactions of the accounting profession.

Assumed Knowledge: BUS220 Accounting & Legal Aspects of Companies and Partnerships

BUSN3250 Accounting and Auditing Information Systems

Unit Value: 10

Concerned with the role and influence of the information systems environment on accounting applications. The subject will examine the processes and issues related to the accumulation and verification of accounting information using modern information systems and assessing the impact upon the organisation. It will draw upon current issues pertaining to these areas, and use real world case studies that will illustrate the relevance of such issues to the business community both nationally and internationally.

Assumed Knowledge: BUS225 - The Regulatory Environment of Business

BUSN3300 Strategic Value Creation

Unit Value: 10

Considers the strategic dimensions of management accounting. Continuing with the theme of 'Value Creation Through Management Control', this subject takes a strategic approach to value creation. This strategic orientation focuses on the organisation's position within its substantive and competitive environments, and the relationship between the organisation's interaction with major stakeholders and its competitive processes.

Assumed Knowledge: None, however, completion of Value Creation Through Managerial Control, BUS230, is desirable.

BUSN3350 Current Issues in Accounting and Finance

Unit Value: 10

Examines those processes and strategies that newly emerging as well as established commercial businesses need to embrace, in this world of rapid, volatile change, to assist them to grow and be successful. The focus is principally upon the business processes rather than upon the entrepreneur or managerial team, and those major, contemporary processes and developments considered to be key to the growth and development of successful companies, both nationally and internationally.

Assumed Knowledge: All Bachelor of Management core subjects, plus MENT200 - New Venture Creation

BUSN3400 Hotel, Sport and Club Marketing

Unit Value: 10

Draws on the concepts and fundamentals of marketing specific to the hotel, sport and club industries. It focuses on strategic planning and marketing approaches in hotel, sport and club organisations. The subject also examines the design and use of creative promotional and media techniques for competitive advantage within these service industries.

Hours of contact: Normally 2-3 hours per week

Assumed Knowledge: BUS205 Contemporary Sport and Club Management

BUSN3420 Global Challenge and Change

Unit Value: 10

Examines the variety of ways in which the process of change can be both understood and implemented in the organisational setting. The subject involves an examination of the concept of globalisation, exploring the driving forces behind the internationalisation of business, and their subsequent impact upon social and organisational structures. Diagnostic models and theories are evaluated in terms of their contribution to understanding contemporary organisational effectiveness, and emerging organisational forms assessed in terms of their impact on the nature of work and organisational change in the immediate future. The major mode of delivery for this subject is in electronic form, with detailed lecture material, research tasks and assignments available to distance students.

This subject is offered both on-campus and by distance learning mode.

Contact hours: 2-3 hours per week

Assumed Knowledge: A knowledge of basic management principles and practices would be an advantage, as would a knowledge of international human resources management challenges.

BUSN3470 Knowledge Management

Unit Value: 10

Draws upon the intersection of three major disciplines - information technology, general management theory and human resource management. This subject deals with the technical, structural and human resource implications of successfully developing and managing knowledge in modern organisations.

Assumed Knowledge: Level 100 core subjects in Bachelor of Management

BUSN3620 e-Marketing

Unit Value: 10

Builds on introductory material in The New Marketer to provide depth of understand- ing of the impact of marketing in the electronic environment. Web and internet infrastructure will be addressed in the context of both their technological underpinning and challenges.

Assumed Knowledge: BUS160 - The New Marketer

BUSN3670 Marketing Development and Directions

Unit Value: 10

Integrates the material presented in earlier marketing subjects and, in an applied project, provides the opportunity for students to develop an integrated marketing plan with an emphasis on marketing strategy development. Wherever appropriate, the content is international in its perspective, giving due attention to problems of diversity management and to relevant issues of global management.

Assumed Knowledge: BUS160 The New Marketer

BUSN3720 Managing Marketing Messages

Unit Value: 3 hours per week

Assumed Knowledge: As a final-year subject, all students will be expected to have completed two years of study in Accounting, Human Resource Management, Hotel Management or Marketing.
Assumed Knowledge: research in a scholarly manner.
applying research methods, and presenting findings from theoretical or empirical
 courses develop the capability to think independently and critically whilst increasing
competency in reviewing literature, addressing research questions, selecting and
applying research methods, and presenting findings from theoretical or empirical
in a scholarly manner.

**BUSN4000 Management Honours A**

Unit Value: 20

Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within Management and/or related disciplines. The four honours
courses together provide research skills to carry out individual, original research to
academic and professional standards in Management and/or related disciplines. The
courses develop the capability to think independently and critically whilst increasing
competency in reviewing literature, addressing research questions, selecting and
applying research methods, and presenting findings from theoretical or empirical
research in a scholarly manner.

**Assumed Knowledge: Admission to Honours Program**

**BUSN4020 Management Honours B**

Unit Value: 20

Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within Management and/or related disciplines. The four honours
courses together provide research skills to carry out individual, original research to
academic and professional standards in Management and/or related disciplines. The
courses develop the capability to think independently and critically whilst increasing
competency in reviewing literature, addressing research questions, selecting and
applying research methods, and presenting findings from theoretical or empirical
research in a scholarly manner.

**Assumed Knowledge: Admission to Honours Program**

**BUSN4040 Management Honours C**

Unit Value: 20

Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within Management and/or related disciplines. The four honours
courses together provide research skills to carry out individual, original research to
academic and professional standards in Management and/or related disciplines. The
courses develop the capability to think independently and critically whilst increasing
competency in reviewing literature, addressing research questions, selecting and
applying research methods, and presenting findings from theoretical or empirical
research in a scholarly manner.

**Assumed Knowledge: Admission to Honours Program**

**BUSN4060 Management Honours D**

Unit Value: 20

Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within Management and/or related disciplines. The four honours
courses together provide research skills to carry out individual, original research to
academic and professional standards in Management and/or related disciplines. The
courses develop the capability to think independently and critically whilst increasing
competency in reviewing literature, addressing research questions, selecting and
applying research methods, and presenting findings from theoretical or empirical
research in a scholarly manner.

**Assumed Knowledge: Admission the Honours Program**

**CATH1010 Introduction to Complementary Medicine**

Unit Value: 10

Introduces complementary medicine in the context of history, principles and practice,
terminology and pharmacognosy. The course reviews the use of herbs throughout
history, reviewing cultural theories for their modes of action and different methods of
preparation and application. Distinction between each method of application and
theory is determined covering, nutritherapy, homeopathy, aromatherapy and herbal
therapy.

Pharmacognosy and phytochemistry is introduced and biologically active compounds
such as alkaloids, glycosides, tannins, essential oils, organic acids and carotenoids
are discussed.

**Assumed Knowledge: No specific prior knowledge is assumed. However, the
completion of HSC Chemistry (or an equivalent) is considered highly desirable
but not essential.**

**CATH1020 Herbal Materia Medica**

Unit Value: 10

Introduces medical terminology and definitions associated with clinical pharmacol-
ogy. An introduction of pharmacological classes is obtained and relevant herbs are
classified. Concepts of herbal therapy are then explored with the foundation of the
terminology and pharmaceutical classes. Some of the common disease states
with corresponding treatments are explored. This is the second of two foundation
courses in the central discipline of herbal therapy, providing core knowledge in to be
used in the remainder of the program.

**Assumed Knowledge: Satisfactory completion of Introduction to
Complementary Medicines**

**CATH1030 Medicinal Herb Botany and Identification**

Unit Value: 10

Introduces the student to the science of Botany, with emphasis in Medicinal Herbs. A
heavy emphasis is on botanical taxonomy and morphology which will enable the
student to become adept in botanical nomenclature and adept in the practise of
medicinal herb identification using botanical tools.

**Assumed Knowledge: Nil**

**CATH3080 Clinical Pharmacology and Therapeutics**

Unit Value: 10

Gives an overview of the principles and application of clinical pharmacology. It
summarizes the evolution and expands on the current trends in drug identification and
application. It discusses the influences of disease on pharmacokinetics and pharma-
dynamics and the influence of drugs on age, pregnancy and lactation. The course then
moves into specific information of drug classes and their pharmacological actions,
before discussing the current research into contraindications with medicinal herbs.

**Assumed Knowledge: Nil**

**CATH3110 Medicinal Herb Research**

Unit Value: 10

Outlines and explains the research testing methods used by the different disciplines in
science to base their findings. Research tools used by biology, chemistry, nutrition,
pharmacology, immunology and pathology are fully explained and demonstrated which
include the variables within the method and the limitations of the claims made by each
testing procedure. In addition, the procedures and rules concerning clinical trials will
also be critically reviewed.

**Assumed Knowledge: Nil**

**CHEE1010 Chemical Engineering Directed Study**

Unit Value: 5

Provides students with opportunity to undertake a directed study to fulfill program
and accreditation requirements. The course is only available to those students who,
under program transition arrangements, need to study a particular area of program
content that will not be covered by the courses to be undertaken and/or to make up 5
units to fulfill the program requirements.

**Assumed Knowledge: N/A**

**CHEE1130 Introduction to Process Industries**

Unit Value: 10

Acquaints students with the basic principles involved in the manufacture of various
chemical and non-chemical products. The various steps involved in the processes are
described, highlighting areas where technological advances have led to improved
productivity, safety and environmental protection. The lectures are co-ordinated with
visits to a number of process sites to provide the students with first hand experience of
current workplace practice, at the very beginning of their program. An introduction to
mass and energy balances is also presented, and examples are given on how to use
balances to quantify flows in a range of real processes.

**Contact hours: 5 hours per week**

**Assumed Knowledge: Nil.**
CHEE1150 Chemical Engineering Principles  
Unit Value: 10  
Introduces students to a broad range of fundamental Chemical Engineering Concepts and Principles. Topics covered include elementary fluid mechanics, vapour pressure, fluidisation/packed beds, conservation principles, and life cycle analysis. Students gain experience in solving engineering problems, creative design, and in written communication.  
Contact hours: 4 hours per week  
Assumed Knowledge: Nil

CHEE1820 Computing and Design Laboratory  
Unit Value: 10  
Provides students with an introduction to writing computer programs, and applying numerical methods. The course also provides an introduction to computer aided design (CAD), and introductory workshop practice.  
Contact hours: 5 hours per week  
Assumed Knowledge: Assumed knowledge MATH 111 or MATH 102. It is recommended that MATH112 or MATH102 be taken simultaneously.

CHEE1921 Industrial Experience  
Unit Value: 10  
Designed to recognise the importance of, and give a student credit for, industrial experience. Thus, the course is available to only part time candidates, with full time, responsible employment in an industry relevant to chemical engineering. The course counts towards their general electives  
Assumed Knowledge: Must be engaged in a traineeship scheme

CHEE1941 Industrial Experience  
Unit Value: 10  
Designed to recognise the importance of, and give a student credit for, industrial experience. Thus, the course is available to only part time candidates, with full time, responsible employment in an industry relevant to chemical engineering. The course counts towards their general electives  
Assumed Knowledge: Must be engaged in a traineeship scheme

CHEE2020 Chemical Engineering Directed Study  
Unit Value: 5  
Provides students with opportunity to undertake a directed study to fulfill program and accreditation requirements. The course is only available to those students who, under program transition arrangements, need to study a particular area of program content that will not be covered by the courses to be undertaken and/or to make up 5 units to fulfill the program requirements.  
Assumed Knowledge: N/A

CHEE2410 Design Principles  
Unit Value: 10  
Introduces second year students to the fundamnetals necessary to design simple structures, and select suitable materials of construction. The course also provides an introduction to the problem of plant design, and short-cut techniques for obtaining design information. In this part of the course the purpose is to apply skills gained from the first part and other sections of the program.  
Assumed Knowledge: First and second year science and maths, mass nd heat transfer, and fluid mechanics

CHEE2820 Transfer Processes Laboratory  
Unit Value: 10  
Comprised of seven experiments related to heat, mass and momentum transfer. After successful conductance of the experiments, the students need to write a well formatted technical report. The course covers process sampling, descriptive statistics, significant of data, analysis of variance, correlation and regression, determination of minimum sample size and the factorial design of experiments.  
Contact hours: 6 hours per week  
Assumed Knowledge: CHEE2281

CHEE2830 Chemical Engineering Laboratory and Computations  
Unit Value: 10  
Designed to allow students to apply the basic principles gained in other chemical engineering courses to practical situations and obtain an understanding of fundamen-ental physical parameters. The course also aims to introduce students to the format of technical reports and data presentation. In addition, the course will introduce students to numerical methods for solving typical chemical engineering problems. It also introduces the students to spreadsheets and programming software which can be used to solve chemical engineering design and process problems.  
Assumed Knowledge: COMP1070 or equivalent, CHEE1150

CHEE2900 Food Product Engineering  
Unit Value: 10  
Examines a range of physicochemical and biochemical methods which can be used to develop specific sensory attributes in food products. Further, the objective is to apply fundamental Chemical Engineering principles to a range of unit operations used in the food industry.  
Assumed Knowledge: CHEE1150, CHEM1010, CHEM1020, MATH1110 or MATH1020

CHEE2940 Particle Processing  
Unit Value: 10  
Teaches students the fundamentals of particle processing technology and characterisation, including measurement of particle characteristics, particle packing, segregation and sampling, storage and transporting of particles. Students also learn the unit operations associated with particle processing which include comminution and grinding, flocculation, agglomeration and granulation, particle separations, and paste extrusion. Finally some advanced topics in particulate processing are covered, including surface chemistry interactions, adsorption and surfactants, colloidal suspensions emulsions and rheology of suspensions. These principles will be applied to a range of industrially important processes including, minerals processing, ceramics processing, paints, food processing, and pharmaceuticals by the use of examples and problem solving.  
Assumed Knowledge: CHEE1150

CHEE3010 Special Topic  
Unit Value: 5  
Allows a student to fulfill elective requirements in unusual situations, including transition periods in the program. Especially useful for part-time and double degree students who may face timetable difficulties. The student is assigned an academic supervisor who will allocate a task based on gaining a greater understanding of chemical engineering principles. The task can comprise, for example, a literature review on a technical course, a laboratory investigation, or small design project. The expected amount of input from a student would be equivalent to 40 hours of work, and demonstrate a level of understanding expected from someone who has completed at least two years of the chemical engineering degree program.  
Assumed Knowledge: Undertaken previous two years of the chemical engineering program.

CHEE3030 Chemical Engineering Directed Study  
Unit Value: 5  
Provides students with opportunity to undertake a directed study to fulfill program and accreditation requirements. The course is only available to those students who, under program transition arrangements, need to study a particular area of program content that will not be covered by the courses to be undertaken and/or to make up 5 units to fulfill the program requirements.  
Assumed Knowledge: N/A

CHEE3320 Thermodynamics  
Unit Value: 10  
Develops a fundamental understanding of the field of thermodynamics, as it applies to chemical engineering, for the purpose of calculating physical property data for substances under non-ideal conditions, and generating equilibrium data for gas (vapour) - liquid systems. A good grounding in this course will allow students to obtain important design data, especially for energy balances, flow processes, and separation processes, and to understand the calculation procedures used in computer software packages, and in reference books such as Perry's Chemical Engineers' Handbook. Also gives an understanding of the basic thermodynamic principles in terms of flowing fluids and to examine applications of this knowledge.  
Assumed Knowledge: First and second year Mathematics, first year Chemistry

CHEE3410 Project Management 1  
Unit Value: 10  
Gives students a working knowledge of the procedures relating to a basic understand-ing of materials, and the application of material selection in chemical engineering and related processes.  
Assumed Knowledge: First year Mathematics, first year Chemistry

CHEE3420 Safety and Risk Management  
Unit Value: 10  
Introduces students to the application of safety and risk management in chemical engineering processes. The course will not only serve as an introduction to the fundamental principles of safety and risk management, but also to the practical application of the technology in industry. The mode of delivery will combine lectures and tutorials, with directed and self-directed project work.  
Assumed Knowledge: CHEE2270

CHEE3690 Environmental Process Technology  
Unit Value: 10  
Provides students with a basic understanding of the principles underlying the behaviour of air- and water-borne contaminants, by introducing the theoretical background associated with existing treatment technologies, and highlighting the challenges that engineers and scientists face in developing new technologies which meet increasingly stringent environmental guidelines, to provide a medium level capability in the theoretical and practical aspects of air and water pollution control to allow benefits and limitations of various treatment methods to be properly assessed.  
Assumed Knowledge: Nil
CHEE3720 Separation Processes
Unit Value: 10
Provides students with the fundamentals necessary to design or evaluate a broad range of separation processes. On completion of this course, students should be able to suggest a separation method for a particular process requirement; make suggestions on the type of equipment required; and make suggestions regarding the size, operating parameters, etc based on design considerations such as throughput.

Not available in 2002.
Assumed Knowledge: First year Mathematics, CHEE2700, CHEE2690

CHEE3730 Model & Separation Processes
Unit Value: 10
Provides an understanding of simple model development, transfer functions, block diagram representation and analysis, and simple control systems. Most of the model development is based on simple unit operations and separation processes. Also, provides students with the fundamentals necessary to design or evaluate a broad range of separation processes.
Assumed Knowledge: First and second year Mathematics, CHEE2690 and CHEE3740.

CHEE3740 Separation Processes & Particle Technology
Unit Value: 10
Consists of two parts, to provide students with the fundamentals governing a range of separation processes involving mass and heat transfer principles, and knowledge on the behavior of particles in fluids, with applications in the process industry. Students apply the fundamentals to the design and evaluation of the separation processes. A number of unit operations such as filtration, sedimentation, thickening, etc are governed by the principles covered in this topic.
Assumed Knowledge: First and second year Mathematics, CHEE2690, CHEE2700, CHEE2940

CHEE3840 Process Engineering Laboratory
Unit Value: 10
Introduces students to experimental aspects of a number of areas of Chemical Engineering. Both fundamental aspects, such as kinetics and reaction engineering, process control, heat and mass transfer and fluid flow as well as more applied topics will be covered. The course will not only serve to reinforce fundamental principles of chemical engineering, but also to the application of the technology. It will emphasise and help reinforce topics and principles introduced in lectures, and help students gain better “hands-on” experience in the laboratory and with practical work in general. In addition it will help develop report-writing skills and the ability to critique experimental data and techniques.
Assumed Knowledge: CHEE2920

CHEE3900 Biochemical Engineering
Unit Value: 10
Introduces students to the application of Biochemical Engineering in the study of living organisms and structures, and the use of living organisms to make products which have particular applications in food processing, medicine, pharmaceutical, health, agriculture and the environment. The course comprises two major components, Bioengineering and Biomedical Transfer Processes. The course will not only serve as an introduction to the fundamental principles of biochemical engineering, but also to the practical application of the technology in industry.
Contact hours: 4 hours per week
Assumed Knowledge: Nil

CHEE3920 Coal and Mineral Processing
Unit Value: 10
Assumed Knowledge: CHEE1150

CHEE4010 Special Topic
Unit Value: 5
Allows a student to fulfil elective requirements in unusual situations, including transition periods in the program. Especially useful for part-time and double degree students who may face timetable difficulties. The student is assigned as academic supervisor who will allocate a task based on gaining a better understanding of chemical engineering principles. The task can comprise, for example, a literature review on a technical subject, a laboratory investigation, or small design project. The expected amount of input from a student is equivalent to 40 hours of study work, and demonstrate a level of understanding expected from someone who has completed at least two years of the chemical engineering degree program.
The Head of Discipline’s written permission is required for enrolment in this course.
Assumed Knowledge: Undertaken previous three years of the chemical engineering course.

CHEE4040 Chemical Engineering Directed Study
Unit Value: 5
Provides students with opportunity to undertake a directed study to fulfill program and accreditation requirements. The course is only available to those students who, under program transition arrangements, need to study a particular area of program content that will not be covered by the courses to be undertaken and/or to make up 5 units to fulfill the program requirements.
Assumed Knowledge: N/A

CHEE4210 Process Control and Instrumentation
Unit Value: 10
Provides knowledge of the basics of control methods, control system selection, system analysis, tuning and operation of controllers as well as capabilities with practical system modelling tools such as HYSYS.
Contact hours: 4 hours per week
Assumed Knowledge: CHEE321 or CHEE373, first and second year Mathematics

CHEE4320 Kinetics and Reaction Engineering
Unit Value: 10
Introduces students to the application of kinetics and reaction engineering in chemical engineering processes. The course will not only serve as an introduction to the fundamental principles of kinetics and reaction engineering, but also to the practical application of the technology in industry. The mode of delivery will combine lectures and tutorials, with directed and self-directed project work.
Assumed Knowledge: First year Mathematics, CHEE1150

CHEE4510 Project Management & Innovation in Process Industries
Unit Value: 10
Complements the earlier work on chemical engineering process design and operation and includes specific material on planning, selection, estimation and control of chemical engineering processes. Previous material given in the course, involving chemical engineering unit operation design, is related to process flowsheets, process economics and cost estimation. The course will include a general overview of management, company structures, taxation, legal frameworks (especially related to environmental legislation), intellectual property and patents, business plans and analysis, markets, competitions, opportunity, Threat analysis as related specifically to chemical engineering industries.
Assumed Knowledge: Nil

CHEE4950A Design Project Part A
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Students prepare a design for a chemical engineering process which includes aspects related to equipment, location costs and regulatory issues. The design report resulting is equivalent to a feasibility study. Students work in groups, with the objective of establishing communication skills and will need to make deadlines, ‘engineering’ decisions, perhaps for the first time, and yet must comprehend the effect of uncertainties in their decisions on the viability of the design.
Contact hours: By arrangement
Assumed Knowledge: Completion of all year 1-3 subjects

CHEE4950B Design Project Part B
Unit Value: 10
This course is Part B of a multi-sequence. Part A must be successfully completed before undertaking Part B.

Students prepare a design for a chemical engineering process which includes aspects related to equipment, location costs and regulatory issues. The design report resulting is equivalent to a feasibility study. Students work in groups, with the objective of establishing communication skills and will need to make deadlines, ‘engineering’ decisions, perhaps for the first time, and yet must comprehend the effect of uncertainties in their decisions on the viability of the design.
Assumed Knowledge: Completion of all Year 1-3 courses.

CHEE4960 Advanced Design
Unit Value: 10
The objective is to prepare a design for a chemical engineering process which includes aspects related to equipment, location costs and regulatory issues. The design report resulting is more than a feasibility study. It should be of a level such that implementation of the design is possible, if the decision is so made. In this course the student works individually and is probably employed (part-time student). It is usually related to some aspect of the student’s work in the industry.
Assumed Knowledge: Students are expected to have completed Year III, BE (Chemical) degree.

Head of Discipline’s written permission is required for enrolment in this subject.
CHEE4970A Research Project Part A
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

CHEE4970B Research Project Part B
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

CHEE4980 Advanced Research Project
Unit Value: 10
Develops research techniques and the ability to work individually on a problem. The student and academic supervisor (frequently an industrial sponsor is involved) establish the objectives and expected outcomes of the research project, which is then pursued by the student under the guidance of the supervisor(s).

Assumed Knowledge: Completion of all Year 1-3 courses.

CHEM1010 Introductory Chemistry I
Unit Value: 10
Introduces chemistry, focussing on the foundation concepts of chemistry. It examines basic atomic and molecular structure, introduces the chemistry of carbon compounds, and illustrates basic physical concepts central to an understanding in the discipline.

This is one of two foundation subjects in the key central scientific discipline of chemistry, providing core knowledge in science, engineering and life sciences. Contact hours: 3 lecture hours, 1 tutorial hour and 2 laboratory hours per week.

Assumed Knowledge: The completion of HSC Chemistry (or an equivalent) is considered highly desirable but not essential.

CHEM1020 Introductory Chemistry II
Unit Value: 10
Extends an introduction to chemistry, focussing on the foundation concepts of chemistry central to an understanding in the discipline. It examines basic chemistry of carbon compounds, illustrates basic physical concepts, explores the periodic table and introduces inorganic compounds and their structures.

This is one of two foundation subjects in the key central scientific discipline of chemistry, providing core knowledge in science, engineering and life sciences. Contact hours: 3 lecture hours, 1 tutorial hour and 2 laboratory hours per week.

Assumed Knowledge: The completion of HSC Chemistry (or an equivalent) or CHEM101 is considered highly desirable but not essential.

CHEM1110 Chemistry for the Life Sciences I
Unit Value: 10
Focuses on the foundation concepts of chemistry central to an understanding of the discipline and underpinning concepts in life and environmental sciences. It examines basic chemistry of carbon compounds, illustrates basic physical concepts, explores the periodic table and introduces inorganic compounds and their structures.

This is one of two foundation subjects in the key central scientific discipline of chemistry, providing core knowledge in science (including marine science and sustainable resource management), human nutrition and food technology.

Assumed Knowledge: Completion of all Year 1-3 courses.

CHEM1120 Chemistry for the Life Sciences II
Unit Value: 10
Focuses on the foundation concepts of chemistry central to an understanding of the discipline and underpinning concepts in life and environmental sciences. It examines basic chemistry of carbon compounds, illustrates basic physical concepts, explores the periodic table and introduces inorganic compounds and their structures.

This is one of two foundation subjects in the key central scientific discipline of chemistry, providing core knowledge in science (including marine science and sustainable resource management), human nutrition and food technology.

Assumed Knowledge: Completion of all Year 1-3 courses.

CHEM2110 Analytical Chemistry
Unit Value: 10
Introduces the theory and practice of acquiring information about the composition of matter, or quantitative chemical analysis. It covers titrimetric methods in detail, and introduces the basic instrumental methods of potentiometry, electroanalysis, spectrophotometry, atomic spectroscopy an separation techniques including chromatography. Many disciplines rely on quantitative chemical analysis, making this subject of broad relevance across science, engineering, life sciences and industry.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM1010 and CHEM1020. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level course.

CHEM2210 Inorganic Chemistry
Unit Value: 10
Introduces advanced concepts and methods employed in inorganic chemistry, the branch of chemistry that deals with compounds of carbon and the molecules of life. The subject covers a core area of the discipline pertaining to the descriptive chemistry of the elements and their compounds and including structures and symmetry, bonding, reactions, synthesis and characterization. A good understanding of inorganic chemistry is important to students intending to complete an industrial unit of study in chemistry, and it lies at the borderlines of earth sciences, life sciences and engineering.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the course is based on prior learning in CHEM1010 and CHEM1020. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level course.

CHEM2310 Organic Chemistry
Unit Value: 10
Introduces advanced concepts and methods employed in organic chemistry, the branch of chemistry that deals with compounds of carbon and the molecules of life. The subject covers a core area of the discipline pertaining to the descriptive chemistry of the elements and their compounds and including structures and symmetry, bonding, reactions, synthesis and characterization. A good understanding of inorganic chemistry is important to students intending to complete a major or minor study in chemistry, and it lies at the borderlines of life sciences, biotechnology and engineering.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM1010 and CHEM1020. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level course.

CHEM2410 Physical Chemistry
Unit Value: 10
This subject provides a basic understanding of the core area of physical chemistry, based around the theme of systems, states and processes. Topics covered are molecular spectroscopy, chemical thermodynamics and equilibria, and kinetics.

A good understanding of physical chemistry is important to students intending to complete a major or minor study in chemistry, and it lies at the borderline with engineering.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.
This subject aims to provide an understanding of chemistry as it applies to processes in industry and of basic concepts important in applications in the industrial world. Topics covered are the chemical basis of metallurgical processes, and industrial inorganic and organic chemistry processes, including examples from regional industry.

Modern industrial processes draw heavily on chemistry, but also relate to aspects of engineering, biotechnology and environmental science.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM2610 Environmental Chemistry I

Introduces environmental chemistry, focussing on chemistry of the hydrosphere, geosphere and atmosphere. It examines the chemistry of natural and waste waters, chemical aspects of nitrogen and phosphorus cycles, water pollution and treatment. It examines the nature and composition of the atmosphere and atmospheric pollutants, introduces the concepts of air, soils and sediments, and discusses toxic and hazardous wastes. Analytical chemistry methods pertinent to the environment are developed. This subject covers an important area of the discipline at the boundaries of environmental studies and engineering.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM101 and CHEM102.

CHEM3110 Instrumental Chemical Analysis

Explores the principles and applications of instrumental techniques of analysis. It examines emission, absorption and vibrational spectroscopy methods, mass spectrometry, X-ray, electroanalytical and thermal methods of analysis. The various chromatography separation techniques often associated with instrumental analysis are also covered. Experimental skills in selected analytical methods are developed.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3210 Metal Complexation, Structure and Reactivity

This subject explores further the range of modern inorganic chemistry with a focus on compounds of metals, their structures and reactions. The coordination and organometallic chemistry of d- and f-block compounds, particularly their synthesis, shapes and reactivity, is examined. The applications of spectroscopic methods for identifying inorganic systems are also described.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM221. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3310 Molecular Organic Synthesis

Uses a central theme of organic synthesis to survey important aspects of organic chemistry. Synthetic reactions for functional group transformations, carbon-carbon bond formation and skeletal rearrangements are covered, emphasising the chemo- and stereo-selectivity and mechanisms of these reactions. A systematic approach to multistep synthesis with examples, including discussion of some literature classics, is included.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM311. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3410 Energy and Structure

This subject uses the themes of energy and structure to examine aspects of physical chemistry. Electrodes, including the metal-solution interface and structure of the double layer, is examined, along with rates and mechanisms of charge transfer reactions, electrochemical techniques and corrosion. Statistical thermodynamics, relevant to energy distributions in real systems, is examined. Aspects of quantum and molecular orbital theories pertaining to structure are included.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM241. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3550 Medicinal and Biological Chemistry

This subject examines the range, chemical role and structure of biological molecules and the applications of natural and synthetic molecules in medicine. The isolation and structural determination of compounds from natural organisms, metalloproteins and synthetic model systems which mimic natural enzymes, and synthetic molecules used in medicine and current approaches to the synthesis of new drugs are covered.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211 and CHEM231. These subjects are core level 200 subjects for chemistry majors. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3560 Solids, Surfaces and Colloids

This subject provides an understanding of materials that exist in the solid state or colloidal form and of their importance in industrial applications. It will examine solids, including metal oxides. The importance of surfaces, surface chemistry and colloids will be described.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM211 and CHEM241. These subjects are core level 200 subjects for chemistry majors. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.

CHEM3570 Spectroscopic Characterisation of Compounds

Provides for an understanding of and development of skills necessary for the determination of molecular structure by spectroscopic and spectrometric methods. Use of the techniques of IH and 13C nuclear magnetic resonance, mass spectrometry, vibrational and electronic spectroscopy for particularly organic structure elucidation will feature.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM231 and CHEM241. These subjects are core level 200 subjects for chemistry majors.

CHEM3610 Environmental Chemistry II

Further develops environmental chemistry, involving the chemistry of the geosphere, hydrosphere and atmosphere. It examines advanced aquatic chemistry, pollution and treatment of water, atmospheric chemistry pertinent to organic pollutants and the ozone hole, the physico-chemical processes in soils, and waste treatment. Analytical chemistry methods pertinent to the environment are developed further.

Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.

Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in CHEM261. The inverted pyramidal nature of science and chemistry requires some appropriate prior knowledge at lower level for success in a higher level subject.
CHEM3810 Chemistry Project
Unit Value: 10
Involves a semester-long research project. It is designed to prepare students majoring in chemistry and who will be eligible for membership of the Royal Australian Chemical Institute as chartered chemists for participation in research and development projects they may proceed to honours level chemistry where they will meet more advanced projects. Contact hours: nominal contact is 6 hours per week
Assumed Knowledge: This subject is recommended to students seeking membership of the Royal Australian Chemical Institute and registration as a professional chartered chemist and or a career in research. It is open to those who have completed 40 credit points of Chemistry at 300 Level and who have obtained permission from the Head. In certain circumstances, permission to take this subject as a co-requisite with other level 300 subjects may be granted.

Addendum - for Establishing Suitability:
The prerequisites can be satisfied in the following ways, each of which would cover (as a result of compulsory pre-requisites) the sufficient chemistry requirement at all undergraduate levels:

- Either
  - CHEM311 Analytical Chemistry
  - CHEM321 Inorganic Chemistry
  - CHEM331 Organic Chemistry
  - CHEM341 Physical Chemistry
  - Any three of the above and an additional 30 credit points of specialist Level 300 Chemistry subjects.
  - Specifically for the Central Coast Campus only, to accommodate the more restricted program of subjects to be offered at that location, all of
    - CHEM311 Analytical Chemistry
    - CHEM313 Industrial Chemical Analysis
    - CHEM314 Trace Analysis in Environmental Systems
    - CHEM331 Organic Chemistry
    - CHEM316 Environmental Chemistry
  - A different background, approved by the Head of Discipline.

CHEM4110 Chemistry Honours 411
Unit Value: 20
The Honours program in Chemistry operates as a suite of four subjects, which together are employed to produce a single final grade.
This subject is composed of five formal lecture series that cover broad areas of current chemistry at an advanced level, a literature search and review on the selected area of project research, and assignment and report of experimental methodology relevant to the project area.
Contact hours: 6 hours per week
Assumed Knowledge: A major in chemistry in the basic undergraduate degree with an average in Level 300 chemistry subjects (or others assessed as equivalent by the Head of discipline) equivalent to a credit.

CHEM4120 Chemistry Honours 412
Unit Value: 20
The Honours program in Chemistry operates as a suite of four subjects, which together are employed to produce a single final grade.
This subject is composed of directed research in a selected area of current chemistry at an advanced level, applying knowledge of the project area based on a relevant literature review and developed experimental methodology already completed.
Contact hours: 6 hours per week
Assumed Knowledge: A major in chemistry in the basic undergraduate degree with an average in Level 300 chemistry subjects (or others assessed as equivalent by the Head of discipline) equivalent to a credit.

CHEM4210 Chemistry Honours 421
Unit Value: 20
The Honours program in Chemistry operates as a suite of four subjects, which together are employed to produce a single final grade.
This subject is composed of directed research in a selected area of current chemistry at an advanced level, a literature search and review on the selected area of project research, and assignment and report of experimental methodology relevant to the project area.
Contact hours: 6 hours per week
Assumed Knowledge: A major in chemistry in the basic undergraduate degree with an average in Level 300 chemistry subjects (or others assessed as equivalent by the Head of discipline) equivalent to a credit.

CHEM4220 Chemistry Honours 422
Unit Value: 20
The Honours program in Chemistry operates as a suite of four subjects, which together are employed to produce a single final grade.
This subject is composed of completion of directed research in a selected area of current chemistry at an advanced level (commenced in CHEM411), and preparation of a major and detailed scientific report on the research project.
Contact hours: 6 hours per week
Assumed Knowledge: A major in chemistry in the basic undergraduate degree with an average in Level 300 chemistry subjects (or others assessed as equivalent by the Head of discipline) equivalent to a credit.

CHIN1110 Elementary Chinese I
Unit Value: 10
Comprises a comprehensive language course for students with little or no previous knowledge of the language. It is designed to give beginners a basic level of communicative competence in Modern Standard Chinese (MSC - also known as Mandarin or Putonghua) and a brief introduction to Chinese language and civilization integrated into instruction in the language.
Assumed Knowledge: n/a

CHIN1120 Elementary Chinese II
Unit Value: 10
Comprises a comprehensive language course for students with little or no previous knowledge of the language. It is designed to give beginners a basic level of communicative competence in Modern Standard Chinese (MSC - also known as Mandarin or Putonghua) and a brief introduction to Chinese language and civilization integrated into instruction in the language. It builds on CHIN1110.
Assumed Knowledge: CHIN1110 or equivalent

CHIN2210 Intermediate Modern Chinese 1
Unit Value: 20
Provides a comprehensive language course designed for students with a basic knowledge of Chinese. Emphasis is on the further development of oral expression, character recognition, intensive and extensive reading as well as writing skills in Modern Standard Chinese.
Assumed Knowledge: CHIN1120 or equivalent

CHIN2220 Intermediate Modern Chinese 2
Unit Value: 20
Provides a comprehensive language course designed for students with a basic knowledge of Chinese. Emphasis is placed on consolidating sentence patterns, grammatical structures and speaking skills.
Assumed Knowledge: CHIN2210

CHIN3100 Advanced Chinese 1
Unit Value: 20
A comprehensive advanced language course designed for students who have achieved proficiency at an intermediate level. Particular emphasis is on developing students' ability to use the language competently in real life situations, including conducting conversations and writing practical compositions in Modern Standard Chinese.
Assumed Knowledge: CHIN3100 or equivalent

CHIN3200 Advanced Chinese 2
Unit Value: 20
A comprehensive advanced language course, offered as a sequel to CHIN3100. Emphasis is on the further development of Communication Skills (oral expression, listening comprehension) in Modern Standard Chinese. Teaching materials include Chinese films on videos.
Assumed Knowledge: CHIN3100 or equivalent

CHIN3300 Advanced Chinese III
Unit Value: 20
A comprehensive language course designed for students who have progressed through the CHIN11/2 and CHIN221/2 sequence. Emphasis is on the development of reading and writing skills and cultural background knowledge (written expression, intensive and extensive reading) through reading and examination of a range of carefully selected texts at an advanced level, including newspaper articles, contemporary Chinese literary texts and films with particular reference to active language use.
Assumed Knowledge: CHIN2220 or equivalent

CHIN3400 Advanced Chinese IV
Unit Value: 20
A comprehensive advanced language course, offered as a sequel to CHIN3300. Emphasis is on the development of reading and writing skills and cultural background knowledge (written expression, intensive and extensive reading) through reading and examination of a range of carefully selected texts at an advanced level, including newspaper articles, contemporary Chinese literary texts and films with particular reference to active language use.
Assumed Knowledge: CHIN3300 or equivalent
CIVL1130  Structural and Environmental Mechanics  
**Unit Value:** 10  
To introduce students to basic mechanics and environmental engineering. The course forms the first of the sequence dealing with structural engineering and geotechnics for Civil and Environmental engineering students, and provides a foundation for further work in environmental engineering.  
**Assumed Knowledge:** High School Physics (2 unit) and Mathematics (2 unit).

CIVL1330  Fluid Mechanics and Materials  
**Unit Value:** 10  
This course will provide students with a general introduction to materials engineering and fluid dynamics. The introduction to fluid dynamics will deal with properties of fluids, hydrostatics, buoyancy, continuity and pipe friction.

CIVL1910  Industrial Experience  
**Unit Value:** 10  
This course formalizes periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** There are no pre-requisites for this course.

CIVL1911  Industrial Experience  
**Unit Value:** 10  
Formalises periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** To be specified.

CIVL1920  Industrial Experience  
**Unit Value:** 5  
This course formalizes periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** None.

CIVL1930  Industrial Experience  
**Unit Value:** 5  
This course formalizes periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Contact hours:** To be specified.

CIVL2050  Engineering computations and probability  
**Unit Value:** 10  
The aim of this course is to introduce the principles of engineering computations and statistics. Its purpose is to provide foundation material for later year courses in water, structural and geotechnical engineering.

CIVL2130  Theory of Structures 1  
**Unit Value:** 10  
To introduce students to mechanics of structures under static loading conditions. The course forms the second of the sequence dealing with structural engineering and geotechnics for Civil and Environmental engineering students. Specifically, the objective is to teach students the methods and techniques outlined in the syllabus such that they can solve the type of problems as outlined in the lectures, in the lecture notes and as discussed in tutorials.  
**Assumed Knowledge:** CIVL112 Mechanics and Materials

CIVL2240  Civil Engineering Materials  
**Unit Value:** 10  
This course introduces the important physical and chemical properties of materials used in civil engineering and methods of assessment and control of those properties. Metallurgy and mechanical properties of steel, fracture mechanics, fatigue, corrosion, welding, aluminium, timber, masonry concrete as a construction material, properties of fresh concrete, hardened concrete, durability of concrete, reinforcement, creep and shrinkage of concrete, high strength concrete, good concrete practice, statistical quality control of concrete, and laboratory and tutorial classes.

CIVL2280  Geomechanics 1  
**Unit Value:** 10  
This course covers the basic principles of engineering geology, soil mechanics and rock mechanics. It aims to introduce students to the concepts and vocabulary of geotechnical engineering within the context of conventional mechanics of materials and structures, and to provide a basis for the geotechnical engineering strand.  
**Contact hours:** Approx. 5 hours per week.

CIVL2310  Fluid Mechanics  
**Unit Value:** 10  
Provides advanced fluid mechanics concepts and their application in a range of civil and environmental engineering contexts. This course lays the foundation for subsequent environmental modelling and hydrological courses studied in the third year.

CIVL2710  Transportation Engineering  
**Unit Value:** 10  
Includes elements of road and railway infrastructure and control design. Students also become familiar with transportation demand elements, data collection, flow analysis, driver, vehicle and road characteristics, and aspects of road geometrics, road construction, drainage, pavements and maintenance.

CIVL3150  Stress Analysis  
**Unit Value:** 5  
This course covers the general theory of elasticity. Topics in the theory of elasticity include stress and strain analysis in two and three dimensions, applications to bending problems, stresses around circular holes, stress concentration, laterally loaded plates, the virtual work equation, elements of yield criteria and plasticity.

CIVL3160  Reinforced Concrete Design  
**Unit Value:** 10  
Covers the structural design of reinforced concrete and prestressed concrete members. Topics include design loads and the structural design of steel beams, columns, tension members and bolted and welded connections.

CIVL3170  Steel Design  
**Unit Value:** 10  
The course covers the structural design of steel members and connections. Topics include design loads and the structural design of steel beams, columns, tension members and bolted and welded connections.

CIVL3180  Theory of Structures 2  
**Unit Value:** 10  
The course covers advanced methods of analysis for structural systems. Topics include introduction to the force method, displacement (stiffness) method, slope-deflection and moment distribution. The stiffness method is then expanded upon to include derivation of structure stiffness matrices by the deformation approach. Influence lines are described and reviewed. Students are introduced to plastic theory of structures and hinging theorems.

CIVL3250  Soil Mechanics 1  
**Unit Value:** 5  
The aim of this course is to introduce the principles of consolidation and flow in soil mechanics. Its purpose is to provide the foundation for geotechnical and geoenvironmental engineering design.

CIVL3260  Soil Mechanics 2  
**Unit Value:** 5  
The aim of this course is to introduce the principles of strength and stability in soil mechanics. Its purpose is to provide the foundation for geotechnical engineering design.
CIVL3280 Geomechanics 2
Unit Value: 10
The aim of this course is to introduce the principles of soil mechanics. Its purpose is to provide the foundation for geotechnical and geoenvironmental design.
Assumed Knowledge: CIVL228 Geomechanics 1.

CIVL3330 Hydrology
Unit Value: 10
Introduces hydrology and the hydraulics of open channels. Topics include an overview of precipitation, evaporation, infiltration and runoff. Hydrology, frequency and routing of floods. Yield analysis, climate and hydrologic mass balance. Open channel hydraulics including mass, energy and momentum equations. Characterisation of steady flow, controls and channel design. Unsteady flow in channels.
Contact hours: 6 hours per week and informal student consultation time.
Assumed Knowledge: CIVL381 Engineering Computations and Probability
CIVL231 Fluids Mechanics

CIVL3410 Hydrobiological Modelling
Unit Value: 10
Introduces the notions of mixing, dispersion and diffusion modelling. It extends the ideas of one- and two-dimensional models of surface water transport processes using convection-diffusion equations and particle tracking methods are used. Aquatic chemical and biological processes are described, their kinetics examined and a range of models are illustrated and used. Methods of estimation of parameters in water quality or ecosystem models are introduced and used.
Assumed Knowledge: CIVL2310 Fluid Mechanics
CIVL3330 Hydrology
CIVL2050 Engineering Computations and Probability

CIVL3450 Water Engineering
Unit Value: 10
This course provides an introduction to water engineering practice. It draws on earlier subjects in fluid mechanics, hydrology, statistics and shows how the concepts developed in the earlier courses can be applied to water engineering design. By examining in detail several water engineering design problems the course develops student awareness of the art of design and an appreciation of holistic thinking as well as specific water engineering skills.
Contact hours: 5 hours per week
Assumed Knowledge: CIVL231 Fluid Mechanics; CIVL333 Hydrology; CIVL205 Engineering Computations and Probability

CIVL3460 Environmental Modelling 4
Unit Value: 5
The course brings together a general understanding of environmental physics, acquisition and use of environmental data and numerical modelling techniques for the simulation of processes and pollution. The course is designed to extend the students' ability to model and simulate processes in the environment, with particular emphasis on the use of numerical models. The course will also cover the use of existing models and the interpretation of model results.
Contact hours: 30 hours in week + informal student consultation + 40 hours in week + informal student consultation.
Assumed Knowledge: Co-requisites; CIVL333 Hydrology
Prerequisites: CIVL205 Engineering Computations and Probability; SURV265 Spatial Data Systems and Remote Sensing

CIVL3470 Contaminant Hydrogeology
Unit Value: 10
The theory of groundwater flow and the transport of pollutants in groundwater is covered in this course. Topics include the modeling of groundwater flow and contaminant transport, well hydraulics, flow nets, subsurface chemical and microbial processes, sea water intrusion, groundwater monitoring and remediation.
Contact hours: 2 hours per week (alternate lecture and computer labs).
Assumed Knowledge: Co-requisites; CIVL333 Hydrology
Prerequisites: CIVL205 Engineering Computations and Probability; SURV265 Spatial Data Systems and Remote Sensing

CIVL3520 Management
Unit Value: 5
This course introduces the principles of project and asset management and organizational structures. Topics include engineering economics, industrial relations, organizational behaviour, communication, costing, estimating, engineering contracts, drawings and specifications, tendering, decision-making, project planning and control. All students make an oral presentation.
Contact hours: 2 hours of lectures per week (average).
Assumed Knowledge: There is no prerequisite.

CIVL3530 Project and Asset Management
Unit Value: 10
Introduces the principles of project and asset management and organisational structures. Topics include engineering economics, industrial relations, organisational behaviour, communication, costing, estimating, engineering contracts, drawings and specifications, tendering, decision-making, project planning and control. All students make an oral presentation. Concepts of risk, consequence and uncertainty. Decision trees. Consequence trees. Monte Carlo techniques, Replacement analysis, Maintenance scheduling.
Assumed Knowledge: There is no prerequisite.

CIVL3810 Statistical Methods
Unit Value: 5
Provides an introduction to probability and statistics useful in civil and environmental engineering practice. Topics include an overview of probability and distribution theory, commonly used probability distributions, Bayesian statistical inference and regression. Applications in water resources, structural and transport engineering.
Assumed Knowledge: MECH205 Engineering Computations 1

CIVL3820 Finite Element Analysis
Unit Value: 5
This course covers the general theory of finite element methods. Topics include lagrange interpolation, numerical integration, solution to linear equations, truss elements, beam elements, two-dimensional solid elements and the solution of field problems.
Contact hours: 2 hours per week.
Assumed Knowledge: MECH205 Engineering Computations 1; CIVL213 Theory of Structures 1.

CIVL3830 Stress and Finite Element Analysis
Unit Value: 10
Covers the general theory of elasticity and finite element methods. Topics in the theory of elasticity include stress and strain analysis in two and three dimensions, applications to bending problems, stresses around circular holes, stress concentration, laterally loaded plates, the virtual work equation, elements of yield criteria and plasticity. Topics in finite element analysis include: numerical integration, solution to linear equations, truss elements, beam elements, two-dimensional solid elements and the solution of field problems.

CIVL4110 Theory of Structures 3
Unit Value: 10
Comprises an introduction to higher-level theory of structures. Topics include: elementary theory of elastic plates, plastic theory of structures with application for slab analysis and design, dynamics of structures, stability of structural elements and structural systems. Where it is possible, the topics are linked to requirements of Australian Standards. Revision is also made of the most common software used in the work force for advanced structural analysis.
Contact hours: 2 lecture hours and 3 tutorial hours per week.

CIVL4120 Residential Footings/Masonry/Timber Design
Unit Value: 10
Covers the properties of masonry and timber and the design of structures containing these materials, together with the design of footings for low rise structures. For masonry and timber design, the engineering properties of each material are studied, followed by the design of structural elements such as masonry walls and piers, timber columns, beams, tension members and connections. The foundation design component deals with site characteristics including testing and calculation methods for reactive soils, various footing systems and their characteristics, design performance expectations, numerical models for soil-structure interaction and structural design.
Contact hours: 5 hours per week plus informal student consultation.
Assumed Knowledge: CIVL231 Fluid Mechanics; CIVL317 Steel Design; CIVL316 Reinforced Concrete Design

CIVL4200 Geotechnical Engineering
Unit Value: 10
Geotechnical Engineering is concerned with applying the principles learnt in CIVL228 Geomechanics 1 and CIVL328 Geomechanics 2 to geotechnical and geoenvironmental design. The course covers professional issues related to subsurface engineering design including interactions between professionals, Australian standards, risk analysis and design methodologies. Technical issues covered include geotechnical and geoenvironmental site investigation, toxicology, remediation strategies for contaminated sites, foundation design, retaining wall and slope design, ground modification methods, geotechnical and foundation design. Analytical and numerical methods required for aforementioned topics are discussed. The course material is illustrated by numerous case studies and professional competence is fostered through an integrated set of assignments.
Contact hours: 4 hours of lectures + 1 hour of tutorials per week.
Assumed Knowledge: CIVL228 Geomechanics 1; CIVL328 Geomechanics 2.

CIVL4480 Environmental Modelling 2
Unit Value: 5
The course extends the ideas of Fluid Mechanics CIVL231 to include methods of modelling surface water flows in one, two and three dimensions. Modelling of surface water transport processes using convection-diffusion equations and particle tracking methods are used. Modelling of ecosystems is incorporated in transport models. Methods of estimation of parameters in water quality or ecosystem models are introduced and used.
Contact hours: 1 hour of lectures + 2 hours of computer labs per week.
Assumed Knowledge: Prerequisites: CIVL231 Fluid Mechanics, CIVL205 Engineering Computations and Probability.
CIVL4510 Management of Technological Risks
Unit Value: 10
Considers the assessment and evaluation of risks associated with a wide variety of engineering technology projects, including environmental, mechanical, chemical, computer, civil, water resources, and structural engineering projects. Emphasis is placed on quantifying risks and the treatment of risk within a rational decision-making framework. Other topics include modelling the behaviour of complex systems, reliability analysis, simulation, updating and prediction, and risk acceptance criteria.
Assumed Knowledge: There is no prerequisite for this course.

CIVL4520 Structural Engineering Design
Unit Value: 10
Provides a practical introduction to design techniques in structural engineering. The emphasis is on realistic design problems, such as the structural design of a new commercial or industrial building. Problems are set and supervised by practicing engineers in consultation with departmental staff and test most aspects of design.
Assumed Knowledge: There is no formal pre-requisite. But analysis and design of structures is carried out in this course.

CIVL4540 Water Engineering Design
Unit Value: 10
Provides a practical introduction to investigation and design techniques in water engineering. The emphasis is on a realistic problem requiring investigation of several options in a multi-objective context and conceptual design. The problem is set by a practicing engineer.
Assumed Knowledge: There is no formal pre-requisite. But analysis and design of water systems is carried out in this course.

CIVL4570 Geotechnical Engineering Design
Unit Value: 10
Provides a practical introduction to design techniques in geotechnical engineering. An integrated practical problem is considered. Emphasis is on a realistic design problem. Problems are set by practicing engineers.
Assumed Knowledge: There is no formal pre-requisite. But analysis and design of geotechnical systems is carried out in this course.

CIVL4590 Environmental Engineering Design 1
Unit Value: 10
Provides a problem-based introduction to design techniques in environmental engineering. Several applications are considered with an emphasis on real-world problems typically encountered by graduates. The problems are set by practicing engineers and cover most aspects of environmental engineering design.
Contact hours: 4 hours per week design studio.
Assumed Knowledge: Students must satisfy standard entry requirements for fourth year environmental engineering.

CIVL4600 Environmental Engineering Design 2
Unit Value: 10
Provides a problem-based introduction to design techniques in environmental engineering. Several applications are considered with an emphasis on real-world problems typically encountered by graduates. The problems are set by practicing engineers and cover most aspects of environmental engineering design.
Contact hours: 4 hours per week design studio.
Assumed Knowledge: Students must satisfy standard entry requirements for fourth year environmental engineering.

CIVL4640 Project S1
Unit Value: 10
Independent research study in the form of a literature review, an experimental or theoretical investigation, an engineering design problem etc. Results are communicated in the form of a seminar, poster and final report.
Assumed Knowledge: A student should have completed sufficient subjects to be able to complete their program requirements in the year of enrolment.

CIVL4660 Project S2
Unit Value: 10
Independent research study in the form of a literature review, an experimental or theoretical investigation, an engineering design problem etc. Results are communicated in the form of a seminar, poster and final report.
Assumed Knowledge: A student should have completed sufficient subjects to be able to complete their program requirements in the year of enrolment.

CIVL4670A Advanced Project A
Unit Value: 10
Independent research study in the form of a literature review, an experimental or theoretical investigation, an engineering design problem etc. Results are communicated in the form of a seminar, poster and final report.
Assumed Knowledge: A student should have completed sufficient subjects to be able to complete their program requirements in the year of enrolment.

CIVL4670B Advanced Project B
Unit Value: 10
Independent research study in the form of a literature review, an experimental or theoretical investigation, an engineering design problem etc. Results are communicated in the form of a seminar, poster and final report.
Assumed Knowledge: A student should have completed sufficient subjects to be able to complete their program requirements in the year of enrolment.

CIVL4910 Special Topic
Unit Value: 5
This course provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this course may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: To be specified.
Assumed Knowledge: Variable

CIVL4920 Special Topic
Unit Value: 5
This course provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this course may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: To be specified.
Assumed Knowledge: Variable

CIVL4940 Special Topic
Unit Value: 10
This subject provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this subject may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: To be specified.
Assumed Knowledge: Variable

CIVL4950A Special Topic A
Unit Value: 10
** This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
This course provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this course may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: To be specified.
Assumed Knowledge: Variable

CIVL4950B Special Topic B
Unit Value: 10
** This course is Part B of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
This course provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this course may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: To be specified.
Assumed Knowledge: Variable

CMNS1000 Introduction to Digital Communication
Unit Value: 10
Introduces students to a range of digital media forms and practices. It deals with some of the social, political and cultural implications of digital media, focussing particularly on the Internet. Students will also gain skills in the use of the Internet as a research tool for communication culture.
Contact hours: 2 hours per week
Assumed Knowledge: As this is an introductory course there is no assumed knowledge but general computer competence is an advantage.

CMNS1030 Introduction to Video 1
Unit Value: 10
Introduces students to the skills, knowledge and ability required to produce short documentary programs. It deals with some of the social, political and cultural implications of the documentary film genre, focusing on codes of representation in the context of subject, producer and audience. Students will gain technical and aesthetic skills in the use of equipment for video production and post-production.
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Contact hours: 3 hours per week
Assumed Knowledge: As this is an introductory course there is no assumed knowledge.
CMNS1040 Introduction to Video 2
Unit Value: 10
Introduces students to the skills, knowledge and technologies required to analyse and produce short narrative video programs. It deals with some of the social, political and cultural implications of narrative film and video genres, focusing on codes of representation in the context of subject, producer and audience. The course builds on Introduction to Video 1, and students will gain further technical skills in the use of video production and postproduction equipment and facilities as well as increasing their abilities to understand narrative codes in storytelling.
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS103 or equivalent video production and postproduction skills using analogue video equipment as well as pertinent abilities in the design and presentation of script proposals; the practical construction of video programs; as well as an understanding of relevant principles of communication.
CMNS1050 Introduction to Audio Communication
Unit Value: 10
Introduces students to a range of audio communication forms and practices. It deals with some of the social, political and cultural implications of sound recording, audio editing and audio communication. Students will also gain skills in the use of basic audio recording, editing and replay devices as research tools for communication culture.
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies), Bachelor of Design, Bachelor of Fine Art, or Bachelor of Music.
Contact hours: 2 hours per week
Assumed Knowledge: Nil
CMNS1060 Audio Programmes
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies), Bachelor of Design or Bachelor of Music.
Provides students with the opportunity to analyse current conventions in the production and presentation of audio programs for replay on radio, in multimedia projects and/or on the internet. In addition to individual projects, students form small teams to research, produce and present a series of recorded programs. The roles of the production team will be rotated from week to week within each group. Students will experience working in small groups to meet deadlines as they produce and present a live-to-tape audio program in the department’s radio suite. The course will be delivered internally.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS105 or an equivalent competent ability to apply an introductory level understanding of acoustics, sound recording and audio editing.
CMNS1090 Introduction to Professional Writing
Unit Value: 10
Introduces students to the basic forms and techniques of writing associated with communication practice in journalism and public relations. Students are set writing tasks which offer the potential for publication. Workshops provide the opportunity for students to develop skills to meet new writing challenges, to critically examine examples of professional writing, to discuss their own work with their peers, and to consider the role of the professional writer in various social, cultural and professional contexts.
Contact hours: 2 hours per week
Assumed Knowledge: This course assumes a level of English literacy consistent with an introductory university writing course, and experience with the conventions of basic writing forms, such as essays and written narratives.
CMNS1110 Introduction to Communication Studies
Unit Value: 10
Introduces students to the key terms, concepts and major theoretical positions in communication studies. It explores the relationship between communication, media, culture and society. Particular attention is paid to popular culture, news, advertising and propaganda, audiences, women and the media, and international and global communication.
Assumed Knowledge: Nil as it is an introductory course.
CMNS1280 Introduction to Journalism
Unit Value: 10
This course is restricted to students enrolled in the Bachelor of Arts (Communication Studies).
Introduces students to the professional practice of journalism through consideration of the nature and role of news in society. Through a variety of assigned tasks, students will use research, interviewing and writing skills to access information on topics previously unknown to them and produce news articles suitable for publication. Proficiency in English usage, including grammar, and basic editing are developed.
Contact hours: 2 hours per week
Assumed Knowledge: 40 units at 100 level including CMNS109 - Introduction to Professional Writing.
CMNS1290 Introduction to Public Relations Practice
Unit Value: 10
Allows students to develop the basic skills required of public relations practitioners through lectures, workshops and group work. Considers the social, occupational, administrative, cultural and ethical implications of modern public relations practice.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS109 - Introduction to Professional Writing It is assumed that students undertaking this course will have developed their English literacy skills beyond an introductory tertiary education level, will have some experience in writing tasks associated with professional writing practices.
CMNS2030 Digital Video Production
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Provides students with the skills, knowledge and ability to work in digital video formats. Students will learn how to utilise digital video production to enhance their video production. Emphasis in the course will be placed on students working in groups to achieve high quality production outcomes.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS103 and CMNS104. It will be assumed that students can demonstrate an ability to utilise analogue video production methods and are able to edit and shoot video.
CMNS2040 Music Video
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Provides students with the skills, knowledge and ability to critically engage with, discuss and evaluate music video genres, history, aesthetics, production, evolution and budgeting. Students will produce a music video in groups, utilizing digital video equipment and working with local musicians.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS103 and CMNS104. It will be assumed that students can demonstrate understanding and the ability to implement digital video production methods and post-production methods utilising software programs such as Premiere or Final Cut Pro. Software and camera operation will not be taught in this course - it is assumed knowledge. It is also assumed students will have an understanding of key concepts in communication and media studies.
CMNS2050 Radio Industry Studies
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Music.
Introduces students to the skills and technologies of commercial radio production. It examines the history of commercial radio in Australia and analyses radio as a culture industry while investigating music programming, copywriting, production of advertisements and audiences research within the framework of contemporary radio formats. Students will become competent in music programming and broadcast as it applies to the commercial radio industry and develop an understanding of the professional career paths in local and network radio.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS105 and CMNS106 or equivalent introductory audio skills as well as pertinent radio skills such as programs, interviewing and editing as well as an understanding of communication.
CMNS2060 Media Interviews
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Music.
Examines a range of conceptual and operational strategies required to interpret, analyse and produce media interviews. Media Interviews concentrates on programming strategies, production techniques and production roles pertinent to the preparation and presentation of a range of spoken word media and entertainment texts. This course provides students with the opportunity to study current media practice and to research, write, record, edit and produce recorded interviews, which develop interpersonal and media communication skills.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS111, or CMNS103, or CMNS105 or an equivalent competent ability to apply an introductory level understanding of communication theory, basic microphone and/or camera field recording techniques.
CMNS2120 Research for Communication Practice
Unit Value: 10
Allows students to develop research skills related to professional communication practice through lectures, workshops and group work, while undertaking real research into a significant contemporary issue.
Contact hours: 2 hours per week
Assumed Knowledge: Introduction to Professional Writing (CMNS 109) or an equivalent familiarity with the basic forms and techniques of professional writing.
CMNS2130 Editing Small Publications
Unit Value: 10
Achieves students with principles of editing, lay out and page design as vehicles of communication. Students will analyse and develop small publications including booklets, newsletters and magazine layouts. Students will develop competency in the use of desktop publishing and image manipulation applications.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS100 - Digital Media or equivalent knowledge of digital graphics and text manipulation.

CMNS2240 Public Affairs
Unit Value: 10
Invites students to the opportunity to study the processes of communication as they relate to the structures of government in Australia, and to other socio-political forces within society. It will include an emphasis on the practice of these processes. Assumed Knowledge: 60 units at 1000 level including CMNS1110 - Mass Communication

CMNS2280 Magazine Journalism
Unit Value: 10
Introduces students to the magazine genre of professional journalism through critical reflection on self and published works and consider the role of magazines in society. Through a variety of assigned tasks, students will use research, interviewing and writing skills to develop magazine journalism appropriate for publication. It is delivered initially supported with guest lecturers from professional practitioners.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS109 - Introduction to Professional Writing and CMNS128

CMNS2290 Public Relations Issues and Strategies
Unit Value: 10
Students will work in small groups to conduct an audit of public relations materials and a SWOT (Strengths, Weaknesses, Opportunities, Threats) analysis for local organisations. This will involve collaboration with organisations in the local community to survey and document the organisations’ communication practices. Students will also produce a range of public relations documents including brochures and media releases. They will expand their public relations skills in workshops on issues management, strategic planning and professional writing.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS109 and CMNS129. It will be assumed that students in this course will have knowledge of professional writing practices and will have an introductory understanding of public relations practice.

CMNS2310 Principles of Sound
Unit Value: 10
Provides students with opportunities to analyse and apply multi-track recording and other audio production techniques as used in radio broadcasting, video production, music recording and other related communication operations.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS105 or CMNS106 or CMNS205 or CMNS203 or CMNS267

CMNS2330 Multimedia on the Web
Unit Value: 10
Provides an introduction to the area of multimedia on the World Wide Web. It builds on skills developed in CMNS100 - Introduction to Digital Communication and references other professional skills covered in the BA (Communication Studies) degree program.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 100 level including CMNS100 - Introduction to Digital Communication.

CMNS2350 Contemp Popular Music: Cult Prod & Use
Unit Value: 10
Maps the social, cultural, communication and media theories applicable to the study of popular music. Also examines the debates surrounding these theoretical positions and the issues that arise from the relationship of popular music to the media such as its relationship to radio, film, television and other social and cultural institutions.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 100 level

CMNS2360 Introduction to Broadcast Journalism
Unit Value: 10
Provides students with an introduction to the specialist characteristics of electronic genres of news gathering and reporting, including radio and television, in preparation for the advanced journalism and technical requirements of CMNS330 Broadcast Journalism.
Contact hours: 2 hours per week
Assumed Knowledge: Equivalent of two semesters study in journalism, radio and/or video production.

CMNS2600 Audience Studies
Unit Value: 10
Considers the way audiences are researched and positioned by media organisations and texts. Students study competing theories regarding the different ways audiences relate to media products and texts to meet individual needs and the needs of producers operating within cultural frameworks. Students will also explore specific instances of text/reader relationships as they apply to film, radio, popular music, print media and television.
Assumed Knowledge: CMNS1110 or an equivalent understanding of media theory and production.

CMNS2620 Media Ownership and Control
Unit Value: 10
Explores the ownership and control structures of media organisation in Australia. It pays attention to the legislation and regulations, as well as to the economic, political, social and technological factors which govern the media. It also includes comparative studies of media ownership and control in other countries.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS111 or students will be expected to have a fundamental understanding of mass communication theories and their use in the critical analysis of international media.

CMNS2670 Soundscape Studies
Unit Value: 10
This subject focuses on location and studio sound recordings which are designed to construct audio soundscapes for video, film, radio, sound installations and new media. In workshops and field work, utilising particular audio production techniques, students will discover, analyse and test relationships between specific audio environments and their representations. This subject is restricted to those students enrolled in the Bachelor of Arts (Communication Studies), Bachelor of Design, Bachelor of Fine Art, or Bachelor of Music.
Assumed Knowledge: CMNS105 or an equivalent competent ability to apply an introductory level skills in sound recording and audio editing and an understanding of the fundamental principles of acoustics relevant to audio communication.

CMNS3030 Advanced Video Production
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Explores various genres of video production, paying particular attention to their formal structures, with a view to increasing students’ production skills and their understanding of video as a medium of communication and artistic expression.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS203 and CMNS204. Students undertaking this course will have demonstrable video production, shooting, and editing skills.

CMNS3070 Advanced Audio Communication
Unit Value: 10
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies), Bachelor of Design, Bachelor of Fine Art, or Bachelor of Music.
Provides students with opportunities to develop knowledge and skills in radio broadcasting, audio production and sound design for a range of communication projects. The focus is on project-based learning through applied problem solving procedures with an emphasis on utilising primary sources. Students are able to study in an area of their primary interest and the types of projects that may be undertaken include: audio arts; audio for multimedia; current affairs radio; documentary radio; internet radio; music-recording; specialist music, programs and/or programming; oral history; outside broadcast; radio drama; radio features and research. Projects address aspects of culture, society, institutions and audio forms.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS203 or CMNS205 or CMNS231 or CMNS267 or equivalent competent ability to apply techniques of audio recording in both the field and in studios; and, of non-linear audio editing to the realization of new audio works.

CMNS3080 Video Project
Unit Value: 20
This course is restricted to those students enrolled in the Bachelor of Arts (Communication Studies) or Bachelor of Fine Art.
Provides students with the skills, knowledge and ability to undertake a complex individual video project that is creatively engaging, original in its treatment of subject matter, sound in its production techniques and thorough in its implementation. Students will be required to budget the production and work within a strictly limited resource base. They will also be required to demonstrate a high level of self-reliance in completing the project. In consultation with academic staff, students may work in a genre of their choice.
Contact hours: 4 hours per week
Assumed Knowledge: CMNS303. It is assumed that students are capable of using all equipment associated with video production. There will be no teaching of production equipment or post production equipment in this course. The emphasis will be upon planning, creative discussion and idea implementation, budget formalities and working with available resources.
CMNS3110 Digital Video Post Production
Unit Value: 10
This subject is restricted to those students enrolled in the Bachelor of Arts (Communi-
cation Studies) or Bachelor of Fine Art. Provides students with the skills, knowledge and ability to work independently in
broadcast quality digital video post-production. Emphasis in the subject will be
placed on students utilising advanced digital post-production techniques and
learning of software widely used by industry.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS203 or equivalent. It will be assumed that
students can demonstrate a sophisticated understanding and ability to
implement digital video post-production methods and software programs such as
Premiere or Final Cut Pro.
CMNS3170 Screenwriting (Documentary)
Unit Value: 10
Students research, write and edit scripts for various forms of factual screen production,
including documentary, promotional, educational, public information and advocacy
and write narration for factual screen production. They prepare scripts which can be
produced successfully within the constraints imposed by the demands of clients,
audience, budgets and time schedules.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS103 Introduction to Video 1 or equivalent
understanding of production, writing and analysis.
CMNS3180 Screenwriting (Drama)
Unit Value: 10
Deals with writing scripts for film, video, or television production. Students will be
engaged in writing for a visual medium and develop an understanding of the
relationship between images and sound. The elements of story telling will be examined
including: structure; the dramatic act; plot points, characters, actions, dialogue and
narration. Students will write concept documents, outlines, and treatments to gain an
understanding of the stages of script production and the forms and conventions of
television genres and the cinema.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS103 - Introduction to Video 1 or equivalent
understanding of production, writing and analysis.
CMNS3240 Applied Communication Studies
Unit Value: 10
Enables students to evaluate a professional working environment in terms of
theoretical and professional insights gained in the course. Details vary from case to
case but generally students may expect to engage in the day-to-day routines of
activities such as research and production.
Contact hours: Professional Placement
Assumed Knowledge: 60 units at 200 level with the Approval of the Head of
Department.
CMNS3250 Electronic Media Studies
Unit Value: 10
Examines cultural, economic and political issues relating to commercial, public
and community radio; commercial, public, pay and community television; video;
communication networks and interactive multimedia, from both historical and
contemporary perspectives.
Assumed Knowledge: CMNS1000 or CMNS1030 or CMNS1040 or an
equivalent understanding of Internet, radio, or video production.
CMNS3260 Texts and Contexts
Unit Value: 10
Students will consider place as a text, a text which can be read politically, socially,
culturally and aesthetically. In this course students will develop projects which
examine the ethical, epistemological and aesthetic dimensions of place. They will
examine the ways in which public consent is mobilised or co-opted in, and through,
changing representations of place.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 100 level
CMNS3270 Communication and Discourse
Unit Value: 10
Examines selected discourses to see in what ways professional practice can both
constrain and enable. Students will also consider professional conventions, rules,
institutional structures and the private and public practices of individuals and groups
to see how power relationships are constructed and maintained.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 100 level including CMNS111 - Mass
Communication
CMNS3360  Independent Production
Unit Value: 10
Provides students with the opportunity to research, write and produce a major video project of 20-25 minutes duration. Emphasis is given to the utilisation of this medium for the purpose of individual creative expression. It is expected that students will explore theoretical considerations associated with their particular project. An understanding of formal structure, generic conventions and an ability to critically evaluate the work will form an inter-dependent focus to the overall production.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS335 or CMNS303

CMNS3370  Sound Project
Unit Value: 20
Explores a range of conceptual, analytical, operational and production strategies as applied in the creation of Radio Drama and Features, Video Projects, Music Recordings, Audio Arts, Internet Audio and other aural works. Connections will be made between sound design, manipulating sound as a communicative endeavour, available technology and sound production. The use of digital, computer-based production facilities and timeline as a means of audio-audio and audio-video synchronisation is featured, analysed and applied as a component of contemporary sound techniques.
Contact hours: 3 hours per week
Assumed Knowledge: CMNS231 - Principles of Sound or CMNS307

CMNS3380  Editing Electronic Publications
Unit Value: 10
Develops the principles of editing and design of printable documents for electronic, web-based delivery. Students will learn how to develop 'desktop published' materials for delivery on the World Wide Web by developing documents in HTML, Portable Document Format, and PageMaker formats.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS100 and CMNS213

CMNS3390  Poetics, Ethics, Aesthetics
Unit Value: 10
Critically examines the relationships between ways of making (poetics), ways of being (ethics), and ways of seeing (aesthetics) as they apply to creative and professional media productions. It explores the social commitments of media producers and the theoretical issues raised by the possibilities of social action inherent in aesthetic production.
Contact hours: 3 hours per week
Assumed Knowledge: 60 units at 100 level. Students will be expected to have a practical, creative and theoretical background in an area of media development and production.

CMNS3400  Copywriting
Unit Value: 10
Designed to give students practical knowledge in the area of copywriting for advertising and an historical and cultural overview of the development of copywriting. The intensive one semester course focuses on the discipline of copy for television, radio and press. Students will work through various advertising formats as well as develop a series of projects for their own portfolio. Students completing this course will develop industry ready skills as a copywriter.
Contact hours: 2 hours per week
Assumed Knowledge: CMNS109 - Introduction to Professional Writing.

CMNS3990  Directed Reading
Unit Value: 10
Entry must be approved by the Head of Department.
Gives students the opportunity to study a topic of special interest not otherwise available in the Communication degree, through either a course of directed reading, viewing and/or listening or a creative production project.
Assumed Knowledge: 60 units at 2000 level

CMNS4030  Communication Honours I
Unit Value: 20
The Honours program in the Department of Communication and Media Arts provides students with an opportunity to undertake an in-depth study of a topic in communication or/media arts.

The Honours program in Communication and Media Arts is comprised of the course CMNS403, CMNS404, CMNS405 and CMNS406.

CMNS4040  Communication Honours II
Unit Value: 20
The Honours program in the Department of Communication and Media Arts provides students with an opportunity to undertake an in-depth study of a topic in communication or/media arts.

The Honours program in Communication and Media Arts is comprised of the course CMNS403, CMNS404, CMNS405 and CMNS406.

CMNS4050  Communication Honours III
Unit Value: 20
The Honours program in the Department of Communication and Media Arts provides students with an opportunity to undertake an in-depth study of a topic in communication or/media arts.

The Honours program in Communication and Media Arts is comprised of the courses CMNS403, CMNS404, CMNS405 and CMNS406.

CMNS4060  Communication Honours IV
Unit Value: 20
The Honours program in the Department of Communication and Media Arts provides students with an opportunity to undertake an in-depth study of a topic in communication or/media arts.

The Honours program in Communication and Media Arts is comprised of the courses CMNS403, CMNS404, CMNS405 and CMNS406.

COMP1050  Internet Communications
Unit Value: 10
Introduces Internet communication and the fundamental concepts of Internet Architecture and how they support the massive growth and varied uses of the medium. An emphasis is placed on practical skills, such as using various communication techniques, building web pages, and securing information via encryption, collaborative computing and small virtual environment building. The course is designed to give a sound understanding of the technologies’ potential as well as its limitations.
Previous computing experience is helpful but not required.
Assumed Knowledge: None

COMP1070  Introduction to Programming and Numerical Methods
Unit Value: 5
Introduces students to scientific computation concentrating on numerical methods employed by engineers. It covers the process of designing and implementing algorithms to solve problems. The subject provides an introduction to Object-Oriented Programming in an Integrated Development Environment.
Assumed Knowledge: NA
COMP2200 Theory of Computation
Unit Value: 10
Discusses automata and their relationship to regular, context-free and phrase-structure languages. The computability theory is presented, including Turing machines, decidability and recursive functions. Finally, the complexity theory is presented.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112, MATH151

COMP2230 Introduction to Algorithmics
Unit Value: 10
This subject introduces students to the notion of efficiency and computational complexity. The basic data structures encountered in first year, such as lists, trees and graphs, are reviewed in light of their efficiency and correctness. Asymptotic measures of complexity are covered, and recurrence relations are introduced as an analytical tool. Problem-solving techniques such as the greedy strategy, divide-and-conquer, dynamic programming, and graph searching are covered. These techniques are illustrated upon optimization problems chosen for their practical relevance.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112, MATH151

COMP2240 Operating Systems
Unit Value: 10
Introduces computer operating system principles, using practical examples. Topics include tasking and processes, process coordination and synchronisation, resource scheduling, physical and virtual memory organisation, security issues, communications and networking, and distributed operating systems. The Unix operating system is used as a case study where appropriate.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112

COMP2350 Database Systems
Unit Value: 10
Covers the three level architecture for database systems, the relational database model, database normalization, data security and integrity, recovery and concurrency, optimization and distributed object-oriented systems. Students learn the SQL query language, and get hands-on experience of a modern relational database management system such as Sybase or Oracle.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112

COMP2360 Data Security
Unit Value: 10
Deals with advanced topics in data security and data authenticity. Students learn fundamental technical tools for data security as well as how to combine the tools and how to embed them in protocols which support various security and authenticity requirements in computerised data processing, data storing and communication.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112, MATH151

COMP2390 Compiler Design
Unit Value: 10
The purpose of this subject is to study how high-level languages can be implemented on a computer.
Contact hours: 4 hours per week
Assumed Knowledge: COMP222, SENG112

COMP3100 Advanced Algorithmics
Unit Value: 10
This subject is a continuation of the study of algorithmics begun in COMP223, with an emphasis on the tools and strategies needed to recognize and deal with the intractable computational problems which often arise in industry. Students will be encouraged to sharpen their problem-solving skills through proofs of correctness and complexity analysis. Topics include advanced search techniques for graphs, randomized algorithms, parallel algorithms, computational complexity classes, heuristic and approximation algorithms, and combinatorial optimization.
Assumed Knowledge: COMP223

COMP3300 Computer Graphics
Unit Value: 10
Studies issues related to the displaying of objects, which may include: graphics hardware, windows programming, 2D drawing primitives, 2D & 3D geometrical transformation, projections, geometric models, 3D viewing, visible-surface determination, illumination and shading, ray tracing and radiosity, and computer animation.
Contact hours: 4 hours per week
Assumed Knowledge: SENG112, MATH111

COMP3330 Machine Intelligence
Unit Value: 10
Provides an overview of the various areas of artificial intelligence; the main issues and their significance; the power and limitations of classical logic as a representation language for non-mathematical tasks; other representation languages such as KL-One; formal classical predicate logic; syntax, semantics; problem-solving; automated reasoning for agents; knowing and reasoning; acting logically; uncertain knowledge and reasoning; learning; computer vision.
Contact hours: 4 hours per week
Assumed Knowledge: SENG211, MATH151 and MATH111

COMP4110 Special Topic A
Unit Value: 10
COMP411, COMP412 and COMP413 consist of a series of lectures and/or practical work in an area of advanced computer science of contemporary interest. The content of a particular subject may vary from year to year according to developments in technology and the presence of academic visitors.
The subject will consist of a combination of lectures (2 hours per week), discussion seminars based on readings from recent conference publications (1 hour per week). The seminar component will be used to deep and enhance the students understanding of the frontier of knowledge.
Contact hours: 3 hours per week
Assumed Knowledge: Permission from Head of Department.

COMP4120 Special Topic B
Unit Value: 10
COMP411, COMP412 and COMP413 consist of a series of lectures and/or practical work in an area of advanced computer science of contemporary interest. The content of a particular subject may vary from year to year according to developments in technology and the presence of academic visitors.
The subject will consist of a combination of lectures (2 hours per week), discussion seminars based on readings from recent conference publications (1 hour per week). The seminar component will be used to deep and enhance the students understanding of the frontier of knowledge.
Contact hours: 3 hours per week
Assumed Knowledge: Varies according to detailed content. Permission from HoD.

COMP4130 Special Topic C
Unit Value: 10
COMP411, COMP412 and COMP413 consist of a series of lectures and/or practical work in an area of advanced computer science of contemporary interest. The content of a particular subject may vary from year to year according to developments in technology and the presence of academic visitors.
Assumed Knowledge: Varies according to detailed content. Permission from HoD.

COMP4250A Honours Project - Part A
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Comprises a substantial project usually involving a literature review together with a theoretical and/or practical investigation of a computer science problem. Technical content will be dependent on the project undertaken. Project work is embodied in a thesis and presented in a seminar. Additional instruction and assistance in thesis preparation, seminar preparation delivery will be given.
Assumed Knowledge: Permission from HoD. Knowledge is as required for the project undertaken.

COMP4250B Honours Project
Unit Value: 20
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Comprises a substantial project usually involving a literature review together with a theoretical and/or practical investigation of a computer science problem. Technical content will be dependent on the project undertaken. Project work is embodied in a thesis and presented in a seminar. Additional instruction and assistance in thesis preparation, seminar preparation delivery will be given.
Assumed Knowledge: Permission from HoD. Knowledge is as required for the project undertaken.

COMP4470 Graph Algorithms
Unit Value: 10
Deals with graph theory, its applications and the use of graphs for solving problems on a computer.
Contact hours: 2 hours per week
Assumed Knowledge: COMP223 and permission from Head of Department.
COMP4500 Distributed Operating Systems
Unit Value: 10
Distributed systems comprise networked discrete computers together with protocols that control the interaction between them. Users of these systems are able to share not only physical resources such as storage devices, printers or modems, but also less tangible resources such as programs and data. It is the sharing of this second group of resources that forms the subject matter of this course.

It is desirable that sharing of data is achieved with little or no degradation in performance compared to that achieved when the data is stored on devices attached to the user’s own computer. In addition, users should be confident that data, once committed to the store, will be accessible until explicitly deleted, even in the event of storage-device breakdown - in other words the store must be resilient.

The physical structure of distributed stores results in multiple potential points of failure. Ideally only those users directly connected to the failed component should feel the effect of a failure, and users of still-functioning equipment should be able to continue working as if the failure had not occurred (or perhaps with a slight performance degradation). In particular users of functioning equipment should continue to have access to all the data that was available to them prior to the failure. This is termed high availability.

This course will provide students with an understanding of various approaches to implementation of distributed stores, and of issues pertaining to performance, resilience and availability of such stores.

Contact hours: 2 hours per week

Assumed Knowledge: SENG328, COMP224 and permission from Head of Department

COMP4530 Information Visualization
Unit Value: 10
Covers recent developments in concepts, algorithms, and systems for visualising information, explaining how the spread of graphics workstations throughout the software and information engineering industry has increased emphasis on systems using visual rather than textual interfaces.

Contact hours: 2 hours per week

Assumed Knowledge: SENG330, COMP332 and permission from Head of Department

COMP4540 Electronic Commerce
Unit Value: 10
Provides students with a detailed understanding of the impact of the Internet and other modern electronic systems on commercial activities, and introduces them to current trends in electronic commerce. Covers recent developments in concepts and systems for performing commerce and trading across computer networks. Of particular interest are techniques for making payments electronically - both across the Internet as well as through the use of smart cards. Issues of security, electronic data interchange, consumer-oriented electronic commerce also form a major part of the syllabus.

Contact hours: 2 hours per week

Assumed Knowledge: Permission from Head of Department

COMP4550 Knowledge Discovery and Data Mining
Unit Value: 10
Computer technology and databases have provided many companies, institutions, government agencies and corporations with extraordinary power to collect and manipulate data about almost every aspect of their function and their activities. Data mining is the exploration and analysis, by automatic or semiautomatic means, of large quantities of data in order to discover meaningful patterns and rules. While the interpretation of discovered patterns demands their presentation in visual form, statistics is probably the most familiar approach to summarising several observations into few measurements of tendency and spread that translate raw data into information for decision making. Machine learning techniques can be regarded as exploring more flexible non-parametric models as well as more representations for knowledge. Many of the statistical or machine learning approaches translate into large and difficult optimisation and search problems that demand the use of heuristics developed in artificial intelligence.

Assumed Knowledge: COMP333 and permission from Head of Department

COMP6350 Advanced Algorithmics
Unit Value: 10
Emphasises the tools and strategies needed to recognize and deal with the intractable computational problems which often arise in industry. Students will be encouraged to sharpen their problem-solving skills through proofs of correctness and complexity analysis. Topics include advanced search techniques for graphs, randomized algorithms, parallel algorithms, computational complexity classes, heuristic and approximation algorithms, and combinatorial optimization.

Assumed Knowledge: COMP2230

COMP6360 Data Security
Unit Value: 10
Deals with advanced topics in data security and data authenticity. Students learn fundamental technical tools for data security as well as how to combine the tools and how to embed them in protocols which support various security and authenticity requirements in computerised data processing, data storing and communication.

Assumed Knowledge: Good programming skills.

Knowledge of discrete mathematics.

CULT1050 Media, Culture & Society
Unit Value: 10
Media, Culture & Society analyses the complexity of our 'ways of seeing' the world by providing a 'wider lens', interdisciplinary framework for the understanding of the media messages we receive, the cultural values they contain, and the social relations upon which they rely. It is a Group 1 foundational course in the BA (Communication Studies), assumed knowledge for the Cultural Studies Major in the Bachelor of Arts and Bachelor of Social Science, and an elective offering in several other degrees in the University.

Contact hours: 2 lecture hours and 1 tutorial hour per week

Assumed Knowledge: N/A

CULT1100 Communication and Culture
Unit Value: 10
Provides an understanding of communication as social practice. Students explore the relationship between communication and social and cultural issues such as race, class, gender and identity in a range of contemporary representations and practices.

Topics include: cultural representations, constructions of identity and difference, and cultural production and consumption.

Assumed Knowledge: Nil

CULT2100 Cultural Studies: Interdisciplinary Issues
Unit Value: 10
This is a core offering in the interdisciplinary Cultural Studies Major. Cultural Studies is defined by its critically self-reflexive concern with the relationship between social structure and lived experience. This course traces the emergence of Cultural Studies as an interdisciplinary field with a focus on the key theoretical perspectives and methodological issues that have shaped it. There is an emphasis on the study of popular culture, especially its political and ideological dimensions, according to the established concept of the social text. Main topics include Cultural Studies and postmodernity, the politics of identity; feminist Cultural Studies; and the politics of culture and the culture of politics.

Contact hours: 2-hour weekly seminar

Assumed Knowledge: LEIS105 and SOCA110

CULT2130 Media Structures and Practices
Unit Value: 10
Aims to illuminate the forces that operate on media professionals and 'amateurs' and to identify the pressure points of dependence, negotiation, autonomy and resistance in contemporary culture by combining the insights of the Sociology of Culture and of Cultural Studies. The course examines and goes beyond the institutional boundaries and routines of the media to seek a more comprehensive understanding of media and media personnel as 'cultural and ethical brokers' engaged in a variety of relationships with audience 'taste cultures'.

Contact hours: 1 lecture hour and 1 tutorial hour per week

Assumed Knowledge: LEIS105

CULT2410 Gender, Sexuality and Leisure
Unit Value: 10
Aims to introduce students to an understanding of the power relations which shape experiences of leisure in post-industrial capitalism. Main topics address issues such as the commodification of women's leisure, gendered and sexualised leisure space, sport and the social construction of masculinities, and the interplay of age, ethnicity, gender and sexuality in contemporary leisure practices.

Contact hours: 2 hours per week

Assumed Knowledge: LEIS111 or SOCA101 or LEIS105 or GEND102

CULT3010 Cultural Studies: Identity Difference & the Global
Unit Value: 10
Develops at an advanced level the analysis of the politics of culture, identity and lived experience under the condition of postmodernity. It takes a critical approach to the theory and phenomenon of globalisation. This is the second core course in the Cultural Studies Major offered by the Faculty of Arts and Social Science. It develops at 300 level the exposition and analysis of Cultural Studies provided in the 200 level core course Cultural Studies: Interdisciplinary Issues (CULT201).

Contact hours: 2 hours per week

Assumed Knowledge: Media, Culture & Society (LEIS1050)

Cultural Studies: Interdisciplinary Issues (CULT201)

CULT3140 Cyberculture
Unit Value: 20
Examines the sociology of the Internet, dealing with issues such as social and cultural identity in an online environment; the implications of the World Wide Web for equity, democracy and political organisation; and hypertext and the information revolution on the Net. The mode of delivery is web based.

Contact hours: 4 hours web contact per week, 3 lecture hours per semester

Assumed Knowledge: 40 units at 100 or 200 level
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Unit Value</th>
<th>Credit Notes</th>
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</thead>
<tbody>
<tr>
<td>CULT3240</td>
<td>Popular Culture and Society</td>
<td>10</td>
<td>Interrogates systematically the theory, organisation, meaning and ‘lived practice’ of contemporary popular culture, principally from the perspective of Cultural Studies, Media Studies and Sociology. Popular culture is examined, both in the context of the culture industries and in relation to cultural politics, through a detailed appraisal of selected forms, including case studies of popular music and media sport. Competing theories, ideologies and histories of popular culture are analysed in surveying its social role and the ‘value’ ascribed to high, middlebrow and popular culture. Contact hours: 1 lecture hour and 1 tutorial hour per week Assumed Knowledge: 60 credit points at 200 Level</td>
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<tr>
<td>CULT3250</td>
<td>Technology and Social Change</td>
<td>10</td>
<td>Explores the interaction of technology and society - both on a general level and with specific regard to culture and media. It surveys a range of theoretical approaches (notably, Cultural Studies and Sociology) to technology and its role in contemporary culture and aesthetics, examining structural changes in contemporary ‘postmodern’ society, shifts in social and cultural identity, and current and future impacts of new media technologies. Selected 'technology texts', like the classic films Metropolis and Blade Runner, are analysed as influential treatments of technology-culture-society relationships. Contact hours: 2-hour seminar per week Assumed Knowledge: 60 units at 200 Level</td>
</tr>
<tr>
<td>CULT3370</td>
<td>Cultural Politics and the Arts</td>
<td>10</td>
<td>Considers the dramatic changes to social life, leisure and information technologies, the organisation of capital, and the role of government, which have significantly altered arts and cultural policy and practice in Australia, as well as the role of the arts in defining and shaping the nation. Important developments include: the emergence of cultural tourism as a policy concern of governments; the formulation of cultural policy statements by indigenous people; and a major re-evaluation of the role of the cultural industries in Australia, including their symbolic significance as expressions of collective identity. Assumed Knowledge: LEIS2210 or CULT2010</td>
</tr>
<tr>
<td>CULT4010</td>
<td>Cultural Studies Honours I</td>
<td>20</td>
<td>The Honours program in Cultural Studies is a new Honours program in the Bachelor of Arts and Bachelor of Social Science in the interdisciplinary field of Cultural Studies. While the course is administered by the Department of Leisure and Tourism Studies on behalf of the Faculty of Arts and Social Science, students will undertake a thesis under the supervision of Cultural Studies staff in one or more of the following participating Departments: English, Leisure and Tourism Studies, Philosophy, and Sociology and Anthropology. The major mode of delivery will be through thesis supervision. Contact hours: By arrangement Assumed Knowledge: Credit Average in an undergraduate interdisciplinary Cultural Studies Major or equivalent</td>
</tr>
<tr>
<td>CULT4020</td>
<td>Cultural Studies Honours II</td>
<td>20</td>
<td>The Honours program in Cultural Studies is a new Honours program in the Bachelor of Arts and Bachelor of Social Science in the interdisciplinary field of Cultural Studies. While the course is administered by the Department of Leisure and Tourism Studies on behalf of the Faculty of Arts and Social Science, students will undertake a thesis under the supervision of Cultural Studies staff in one or more of the following participating Departments: English, Leisure and Tourism Studies, Philosophy, and Sociology and Anthropology. The major mode of delivery will be through thesis supervision. Contact hours: By arrangement Assumed Knowledge: Credit Average in an undergraduate interdisciplinary Cultural Studies Major or equivalent</td>
</tr>
<tr>
<td>CULT4030</td>
<td>Cultural Studies Honours III</td>
<td>20</td>
<td>The Honours program in Cultural Studies is a new Honours program in the Bachelor of Arts and Bachelor of Social Science in the interdisciplinary field of Cultural Studies. While the course is administered by the Department of Leisure and Tourism Studies on behalf of the Faculty of Arts and Social Science, students will undertake a thesis under the supervision of Cultural Studies staff in one or more of the following participating Departments: English, Leisure and Tourism Studies, Philosophy, and Sociology and Anthropology. The major mode of delivery will be through thesis supervision. Contact hours: By arrangement Assumed Knowledge: Credit Average in an undergraduate interdisciplinary Cultural Studies Major or equivalent</td>
</tr>
<tr>
<td>CULT4040</td>
<td>Cultural Studies Honours IV</td>
<td>20</td>
<td>The Honours program in Cultural Studies is a new Honours program in the Bachelor of Arts and Bachelor of Social Science in the interdisciplinary field of Cultural Studies. While the course is administered by the Department of Leisure and Tourism Studies on behalf of the Faculty of Arts and Social Science, students will undertake a thesis under the supervision of Cultural Studies staff in one or more of the following participating Departments: English, Leisure and Tourism Studies, Philosophy, and Sociology and Anthropology. The major mode of delivery will be through thesis supervision. Contact hours: By arrangement Assumed Knowledge: Credit Average in an undergraduate interdisciplinary Cultural Studies Major or equivalent</td>
</tr>
</tbody>
</table>
Assumed Knowledge:

Skills and information.

Critical awareness of work. Successful projects are completed using the application of industry practices and research techniques. Theoretical and practical projects are further developed understanding of graphic design skills, material and equipment. The design process is introduced and explored through a series of problem based learning projects.

Introduces materials, equipment, theories and practice of applied drawing. Foundation drawing skills, linear perspective, geometry and basic illustrative technique relevant to visual communication practice are presented.

Introduces basic skills and knowledge as a framework for the understanding and application of technology and tools for visual communication practice. The focus will be on applied use of technologies in the exploration of design principles.

Introduces the student to the fundamentals of the medium, including equipment, materials and processes, enabling an exploration and application of photography as a solution to visual design problems.

Introduces students to the role of the designer in today's society and examines the role of the designer from professional and interrelated philosophical viewpoints. An awareness of environmental and other practical aspects of professional practice are also developed. Students are encouraged to develop their understanding of the range of philosophic, social and technical concepts that inform their design world.

Introduces the relationship between design and technology. The design process is introduced and explored through a series of problem based learning projects. Encourages original, imaginative and creative thinking together with a systematic approach to design problem exploration.

Provides an introduction to basic Graphic Design, material and equipment used, industry practices and research techniques. An understanding of the Graphic Design Profession is gained through theoretical and practical projects. Creative and analytical skills and a critical awareness of work are encouraged to analyse design and complete successful projects.

Further develops an understanding of graphic design skills, material and equipment used, industry practices and research techniques. Theoretical and practical projects are pursued. Development of creative and analytical skills is encouraged, including a critical awareness of work. Successful projects are completed using the application of skills and information.

Assumed Knowledge: DESN1100, DESN1110, DESN1300

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: Nil.

Assumed Knowledge: DESN1460.

Assumed Knowledge: DESN1210.

Assumed Knowledge: DESN1300.

Assumed Knowledge: DESN1100, DESN1110.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1300.

Assumed Knowledge: DESN1460.

Assumed Knowledge: DESN1210, DESN1200.

Assumed Knowledge: DESN1910.

Assumed Knowledge: DESN1910.

Assumed Knowledge: DESN1100, DESN1110.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1100, DESN1110.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1100, DESN1110.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1100, DESN1110.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1910, DESN1200.

Assumed Knowledge: DESN1910, DESN1200.
DESN2260  Visual Communication Technology 2  
Unit Value: 10  

Presents traditional and contemporary practices relevant to the preparation of design and art work for print. Studio practice, and visits to printers and trade houses encourage an understanding of the role of pre-press and print in the graphic arts.  
Assumed Knowledge: DESN2100, DESN2110  

DESN2300  Design Studio Photography  
Unit Value: 10  

Introduces the student to commercial photography and develops the role of the designer as image-maker. The role and responsibilities of the commercial photographer will be examined with relevance to the visual communication profession. Original and imaginative photographic solutions to design problems will be encouraged.  
Assumed Knowledge: DESN1310  

DESN2310  Visual Communication Imaging  
Unit Value: 10  

Builds upon traditional photographic knowledge and introduces digital imaging theory and practice. It aims to equip the student with the knowledge and ability to visually communicate via computer technology that forms the nucleus of contemporary design imaging.  
Assumed Knowledge: DESN1310  

DESN2400  Directed Study  
Unit Value: 10  

Allows students with specific professional interests, not addressed by other elective subjects, to develop, with appropriate staff expertise, a supervised project of an equivalent 10 unit value.  
Assumed Knowledge: Nil.  

DESN2710  Scientific Illustration  
Unit Value: 10  

An appreciation and breadth of experience in the visual interpretation of the natural environment and its application is gained. Topics are designed to develop further skills and concepts of study and field work in a broad range of techniques and materials that will stimulate contemporary illustration practice. Emphasis will be placed on attaining vocational and professional attitudes.  
Assumed Knowledge: DESN1200, DESN1210  

DESN2720  Wildlife Illustration  
Unit Value: 10  

This course may also be offered on an intensive basis to study abroad students.  
Addresses contemporary issues in both studio and field work which apply to the practising illustrator. A broad range of skills and techniques is covered to give students the opportunity to pursue practical work. Emphasis is placed on experience in the studio, the field and the broader community.  
Assumed Knowledge: DESN1200, DESN1210  

DESN2930  Graphics 3  
Unit Value: 10  

Applies creative and analytical skills to a variety of problem based tasks in practical and theoretical projects. Skill and knowledge of the design process is expanded.  
Assumed Knowledge: DESN1910, DESN1920  

DESN2940  Graphics 4  
Unit Value: 10  

Applies creative and analytical skills to a variety of problem based tasks in practical and theoretical projects. Skill and knowledge of the design process is expanded.  
Assumed Knowledge: DESN2930  

DESN3000  Visual Communication: Forms & Functions  
Unit Value: 10  

Investigates the range of visual communication modes. Research into analysis of particular forms and their functions is undertaken and presented in a form appropriate to a career in professional practice and/or further academic study.  
Assumed Knowledge: DESN2910, DESN2920  

DESN3010  Australian Design History  
Unit Value: 10  

Open at 3000 level to continuing graphic design students only. Also available as DESN2010.  
Examines the historical narrative of Australian design in the social context. Aspects considered include aboriginal design, vernacular design, cultural influences and the effect on Australian design of European and American design movements. This course is available as an Elective Group C option for third year Visual Communication students.  
Assumed Knowledge: DESN1460  

DESN3030  Issues in Design  
Unit Value: 10  

Open to continuing graphic design students only.  
Examines the social issues that influence contemporary Australian design including nationalism, internationalism, consumerism and technology, and issues such as environment, gender, multiculturalism and aboriginality. This subject is available as an Elective Group C option for third year Visual Communication students.  
Assumed Knowledge: Nil  

DESN3100  Graphic Design Images and Ideas  
Unit Value: 10  

For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.  
Expands graphic design principles and knowledge of materials and equipment. Advanced problem solving techniques and ideas are considered. Creativity to advanced problem solving is acquired including the application of experimental processes to problem solving. An understanding of advanced design elements and principles is developed.  
Contact hours: 1 lecture hour and 2 studio hours per week  
Assumed Knowledge: DESN211  

DESN3110  Advertising Design  
Unit Value: 10  

For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.  
Applies and expands design principles through group participation and interaction appropriate to problem solving in advertising. Areas covered include: ability to work effectively as a member of a group; understanding of presentation techniques; organisation of tasks within a team situation; contribution of creative strategy and policy making within a group dynamic; preparation and presentation of creative strategy reports; understanding of effective corporate identity; and the vocabulary of the industry.  
Contact hours: 3 hour studio per week  
Assumed Knowledge: DESN310  

DESN3120  Visual Communication Major Study - Part 1  
Unit Value: 20  

Focuses on the range of skills, knowledge and attitudes relevant to professional visual communication practice.  
Contact hours: 6 hour studio per week  
Assumed Knowledge: DESN212, DESN213  

DESN3130  Visual Communication Major Study - Part 2  
Unit Value: 20  

Extends the visual communication study and places particular emphasis upon the preparation of the undergraduate for a career in professional practice and/or further academic study.  
Contact hours: 6 hour studio per week  
Assumed Knowledge: DESN212  

DESN3200  Design for Digital Media 1  
Unit Value: 10  

For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.  
Transitional equivalent to DESN223.  
Examines the use of digital technology associated with illustration, imaging and design for reproduction. The studio environment will be centred around a problem based learning model and will explore the potential of digital and related technologies as they apply to the study and practice of graphic design. Particular emphasis is placed on vector based imaging, digital illustration, Postscript technologies, and professional studio practice specific to digital media.  
Contact hours: 1 hour lecture and 2 hour studio per week  
Assumed Knowledge: DESN210, DESN211, DESN231  

DESN3210  Design for Digital Media 2  
Unit Value: 10  

For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.  
Continues the study of digital media and examines the use of digital technology associated with non print based design such as pixel based imaging, digital time-based media and design for multimedia. The studio environment will be centred around a problem based learning model and will explore the potential of digital and related technologies as they apply to the study and practice of non print related graphic design.  
Contact hours: 1 hour lecture and 2 hour studio per week  
Assumed Knowledge: DESN210, DESN211, DESN231, DESN320
DESN3220 Technical Illustration 3
Unit Value: 10
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
Extends theory and specialised practice in technical illustration for Graphic reproduction is presented. Opportunity is provided for experimentation, collaborative works and investigation into materials, substrates, equipment and technologies relevant to graphic design practice.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN120, DESN121

DESN3310 Graphic Design Production
Unit Value: 10
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
Familiarises students with traditional and contemporary practices relevant to the preparation of design and art work for print. The course is developed through encouraging an understanding of the role of print and the press in the graphic arts, and how these processes can be utilised by the graphic designer when designing for print. The course is developed through studio practice, visits to printers and trade houses where possible, which will encourage an understanding of the role of pre-press and print in the graphic arts.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: DESN210, DESN211

DESN3400 3D Graphic Design
Unit Value: 10
For continuing Bachelor of Design (Graphic) students only. Not offered after 2001.
Provides an extended plastic form experience for the Graphic Designer. The course also provides opportunity for experimentation, collaborative works and investigation into materials, substrates, equipment and technologies relevant to packaging, exhibition and display graphics. These include: application of typographic/graphic information as surface graphics on packaged forms; discussion, knowledge on legislative requirement for packaging and marketing of product; standard principles for exhibition and display graphics, including typography as signs, banners and multi-sheet posters; use of colour in visual communication.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: DESN210, DESN211, DESN131, DESN200, DESN201

DESN3410 Visual Communication Project
Unit Value: 10
Enables students to undertake an approved project in an area of visual communication not already addressed by existing elective specialisation courses. The project work will take into account relevant health and safety considerations and the refinement of the characteristics of professional visual communication projects.
Contact hours: 3 hours per week
Assumed Knowledge: Enrolment on approval of the Head of Department.

DESN3710 Wildlife Illustration 1
Unit Value: 10
An appreciation and breadth of experience in the visual interpretation of the natural environment and its application is gained. Topics are designed to develop further skills and concepts of study and field work in a broad range of techniques and materials that will stimulate contemporary illustration practice. Emphasis will be placed on attaining vocational and professional attitudes.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN271, DESN272

DESN3720 Wildlife Illustration 2
Unit Value: 10
Addresses contemporary issues in both studio and field work which apply to the practising illustrator. A broad range of skills and techniques is covered to give students the opportunity to pursue professional work. Emphasis is placed on experience in the studio, the field and the broader community.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN271, DESN272

DESN4000 Visual Communication Honours A
Unit Value: 20
Enables students to develop the depth of creative and analytical skills necessary for performance at an advanced level. Students are required to display academic and professional skills of a standard necessary for entry to a higher degree program and/or principal roles in industry.
Contact hours: By arrangement
Assumed Knowledge: Appropriate undergraduate degree at Credit level or above.

DESN4010 Visual Communication Honours B
Unit Value: 20
Enables students to develop the depth of creative and analytical skills necessary for performance at an advanced level. Students are required to display academic and professional skills of a standard necessary for entry to a higher degree program and/or principal roles in industry.
Contact hours: By arrangement
Assumed Knowledge: Appropriate undergraduate degree at Credit level or above.

DESN4020 Visual Communication Honours C
Unit Value: 20
Enables students to develop the depth of creative and analytical skills necessary for performance at an advanced level. Students are required to display academic and professional skills of a standard necessary for entry to a higher degree program and/or principal roles in industry.
Contact hours: By arrangement
Assumed Knowledge: Appropriate undergraduate degree at Credit level or above.

DESN4030 Visual Communication Honours D
Unit Value: 20
Enables students to develop the depth of creative and analytical skills necessary for performance at an advanced level. Students are required to display academic and professional skills of a standard necessary for entry to a higher degree program and/or principal roles in industry.
Contact hours: By arrangement
Assumed Knowledge: Appropriate undergraduate degree at Credit level or above.

DESN4100 Graphic Design C
Unit Value: 20
For continuing Bachelor of Design (Graphic) students only.
Further extends the range of skills, knowledge and attitudes relevant to the professional practice of Graphic Design in all aspects of visual communication. The development of a professional portfolio is required. Projects are internally and externally sourced and are completed in conjunction with a supervisor. Final submission of all projects by the completion date is mandatory.
Not offered after 2001.
Contact hours: 6 hour studio per week
Assumed Knowledge: DESN310, DESN311, DESN331, DESN320, DESN321

DESN4110 Graphic Design D
Unit Value: 20
For continuing Bachelor of Design (Graphic) students only.
Extends the study of digital media as it relates to graphic communication. The final year emphasis on vocational and higher degree preparation is enhanced. Emphasis is placed on the studio environment on the applied use of digital media in order to solve problems relevant to an advanced level of graphic design study.
Not offered after 2001.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN310, DESN311, DESN331, DESN321
Assumed concurrent knowledge: DESN410, DESN412

DESN4120 Graphic Design E
Unit Value: 20
For continuing Bachelor of Design (Graphic) students only.
Emphasises the preparation of the undergraduate for a career in professional practice and/or higher degree candidacy. Experience and practice is provided in the preparation and presentation of a portfolio as well as the exhibition and display of Graphic work. Intra-disciplinary and cross disciplinary project opportunities are provided.
Not offered after 2001.
Contact hours: 1 hour lecture and 5 hour studio per week
Assumed Knowledge: DESN410

DRAM1010 Introduction to Drama 1
Unit Value: 10
Provides a view of the diversity and variety of forms of drama and theatre practice which occur in Australian society. Particular attention is paid to the nature of performance and the spaces in which such performances take place. Students are encouraged to develop their understanding of the critical vocabulary appropriate to the dramatic forms and to explore the nature of performance through practical tutorial workshops.
Contact hours: 5 hours per week
Assumed Knowledge: Nil

DRAM1020 Introduction to Drama 2
Unit Value: 10
Provides a view of the diversity and variety of forms of drama and theatre practice which occur in Australian society. The origins and history of these forms are explored as well as the cultural traditions in which they arose. Students are encouraged to develop their understanding of the critical vocabulary relevant to the dramatic forms and to explore the nature of performance through practical tutorial workshops. Particular attention is paid to the process of dramatic realisation on stage. Workshops are supplemented with lectures by expert theatre practitioners.
Contact hours: 5 hours per week
Assumed Knowledge: DRAM101. This course depends upon the progressive acquisition of skills and knowledge. These have been introduced in DRAM101 and are developed on this basis in DRAM102
Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2210 Performance Histories I
Unit Value: 10
Offers a detailed study of aspects of some major performance styles, forms and traditions, and of the social and cultural contexts which shaped them.

Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2220 Performance Histories II
Unit Value: 10
Offers a detailed study of aspects of some major performance styles, forms and traditions, and of the social and cultural contexts which shaped them.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2230 Modernism & Performance I
Unit Value: 10
Examines various forms of modernist performance.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2240 Modernism & Performance II
Unit Value: 10
Examines various forms of modernist performance.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2301 Primary Drama in Action
Unit Value: 10
This course aims to provide students with skills to organise and implement drama within the K-6 context. The course will focus on movement and voice, play building, performance and evaluation from the K-6 Creative Arts syllabus.

Assumed Knowledge: EDUC1003 Learners and the Learning Process

DRAM2700 Acting I
Unit Value: 10
This course offers a basic introduction to the craft of the actor with particular emphasis upon the creation of performance from non-text based sources.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM101 and DRAM102

Concurrent Assumed Knowledge: 1 course drawn from DRAM221-224.

DRAM2710 Acting II
Unit Value: 10
Builds on Acting I, offering further experiential study in the craft of the actor with particular emphasis on techniques for the development of character on stage.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM270. Concurrent Assumed Knowledge: 1 course from DRAM221-224.

DRAM2740 Theatrecraft I
Unit Value: 10
Offers an introduction to the craft of theatre stage management. The objective is to gain a basic working knowledge of stage management procedures and duties and is conducted through experiential workshops.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM101 & DRAM102. Concurrent Assumed Knowledge: 1 drawn from DRAM221-224.

DRAM2750 Theatrecraft II
Unit Value: 10
Offers further studies in the work of theatre stage management, building on the skills, experience and knowledge acquired in Theatrecraft I with particular emphasis on lighting and sound design for stage productions.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM274. Concurrent Assumed Knowledge: 1 course drawn from DRAM221-224.

DRAM2780 Drama & Education I
Unit Value: 10
Introduces students to some basic techniques required to facilitate the teaching of drama in schools. The Drama in Education strand may be of particular interest to students enrolled in the combined Bachelor of Arts/Bachelor of Teaching program. The course is delivered through experiential workshops.


DRAM2790 Drama & Education II
Unit Value: 10
Extends the knowledge of practices addressed in DRAM2780 but is particularly aimed at the needs of students who wish to make a career of drama teaching in the Secondary School system.

Assumed Knowledge: Successful completion of DRAM2780. Concurrent Assumed Knowledge: 1 subject drawn from DRAM2210-2240.

DRAM2900 Performance Exercise I
Unit Value: 10
This subject offers recognition and credit to students for work undertaken as participants in a major departmental performance project. The project will be specified in the year preceding the subject’s delivery and students will be invited to participate by audition and interview. Usually the subject will entail concentrated periods of work on a designated performance text during the Jan-Feb or June-July semester break, including daily rehearsals and a performance season of two weeks at the commencement of semester. The subject is only offered internally.

Assumed Knowledge: DRAM101 and DRAM102

DRAM3310 Performance & Contemporary Culture I
Unit Value: 10
Alerts students to the range of modes available to contemporary audiences and used by contemporary practitioners both in Australia and overseas, thereby enabling students to build on their understanding of theatre practices introduced in second year.

Contact hours: 3 hour seminar per week

Assumed Knowledge: 40cp of Drama at 200 level. Concurrent Assumed Knowledge: 1 subject drawn from DRAM372, DRAM380, DRAM382 and DRAM386 (applied subjects).

DRAM3320 Performance & Contemporary Culture II
Unit Value: 10
The purpose of the Performance and Contemporary Culture strand is to alert students to the range of modes available to contemporary audiences and used by contemporary practitioners both in Australia and overseas, thereby enabling students to build on their understanding of theatre practices introduced in second year. This course offers students further content areas to those in DRAM331(Performance and Contemporary Culture I).

Contact hours: 3 hour seminar per week

Assumed Knowledge: 40 units of Drama at 200 level. Concurrent Assumed Knowledge: 1 course drawn from DRAM373, DRAM381 and DRAM386 (applied courses).

DRAM3720 Community Drama I
Unit Value: 10
Offers an introduction to the theory, practice and methodologies of community theatre, and is intended to introduce students to the process of community theatre project development.

Contact hours: 3 hours per week

Assumed Knowledge: 40 units of Drama at 200 level. Concurrent Assumed Knowledge: DRAM331.

DRAM3730 Community Drama II
Unit Value: 10
Extends upon the work of DRAM372 (Community Drama I). It aims to introduce students to the processes involved in generating a piece of community theatre from an initial proposal to its completion by way of a performance/demonstration within a community context.

Contact hours: 3 hours per week

Assumed Knowledge: Successful completion of DRAM372 (Community Drama I). Concurrent Assumed Knowledge: DRAM332.

DRAM3800 Director’s Perspective I
Unit Value: 10
Offers an introduction to the craft of the director for the stage. A major part of the Department’s teaching stresses the transference of a text from page to stage. This course introduces students to those techniques necessary to realise a three dimensional stage performance and is delivered through experiential tutorial/workshops.

Contact hours: 3 hours per week


DRAM3810 Director’s Perspective II
Unit Value: 10
Develops skills acquired in DRAM380 with particular emphasis upon detailed script analysis and character research required of a director for the stage. The course is conducted through analytical tutorials and experiential workshops.

Contact hours: 3 hours per week


DRAM3820 The Dramatic Script I
Unit Value: 10
Explores some principles of dramatic writing for stage, radio and film. Students are given opportunities to develop their own creative potential through original script writing.

Contact hours: 3 hours per week

Assumed Knowledge: 40 units in Drama at 200 level. Concurrent Assumed Knowledge: DRAM331.
DRAM3830 Advanced Studies in Performance 1  
**Unit Value:** 20  
Provides advanced studies into the nature and composition of performance. The content reflects the current research interests of the course convenors.  
**Contact hours:** 3 hours per week  
**Assumed Knowledge:** 40 units of Drama at a 200 level including the material contained in either Performance Histories 1 and 2, or Modernism and Performance 1 and 2. It is also anticipated that students would be concurrently enrolled in those courses at a 300 level required for the Major in Drama viz. DRAM331 and DRAM332  
DRAM3840 Advanced Studies in Performance 2  
**Unit Value:** 20  
Provides further advanced studies into the nature and composition of performance. The content reflects the current research interests of the course convenors.  
**Contact hours:** 3 hours per week  
**Assumed Knowledge:** That students would be concurrently enrolled in those courses at a 300 level required for the Major in Drama viz. DRAM331 and DRAM332  
DRAM3850 Acting III  
**Unit Value:** 10  
Extends the work of Acting 2, offering the student insights into contemporary acting theory and strategies for preparing a role through to final performance. Workshop/rehearsal is the primary mode of delivery.  
**Assumed Knowledge:** Successful completion of DRAM2710.  
DRAM3860 Dramatic Script 2  
**Unit Value:** 10  
Explores some principles of dramatic writing, particularly for the theatre. The course will further develop and explore principles of dramatic writing with an emphasis on learning and applying dramaturgical skills and workshop student plays. As well as seminar style discussions, students are given practical writing exercises in class to help free the imagination and develop techniques. Students are assessed in terms of attendance, completion of class exercises and the submission of a synopsis, scenario and a short play for the stage.  
**Contact hours:** 3 hours per week  
**Assumed Knowledge:** Dramatic Script 1 (DRAM382)  
DRAM3900 Performance Exercise 2  
**Unit Value:** 10  
This subject offers recognition and credit to students for work undertaken as participants in a major departmental performance project. The project will be specified in the year preceding the subject’s delivery and students will be invited to participate by audition and interview. Usually the subject will entail concentrated periods of work on a designated performance test during the Jan-Feb or June-July semester break, including daily rehearsals and a performance season of two weeks at the commencement of the preceding semester. This subject is only offered internally and is equivalent to a 300-level applied Drama subject.  
**Assumed Knowledge:** DRAM101 and DRAM102  
DRAM4050 Drama Honours I  
**Unit Value:** 20  
Drama Honours provides the opportunity to students who have distinguished themselves in Drama at 100-300 level (at a Credit level or better), to extend and develop particular areas of interest stimulated by the undergraduate program. As such, it forms an introduction to the world of international scholarship and research and offers a springboard for further post-graduate studies. The Honours program is intended to develop and strengthen writing and research skills, to challenge students intellectually and to test a student’s ability to pursue independent studies thereby acquiring skills which will be useful in many fields of endeavour. This course is studied in conjunction with DRAM406, DRAM407, and DRAM408, which together comprise the full Drama Honours program.  
**Contact hours:** 4 hours per week  
**Assumed Knowledge:** To have completed the requirements for admission to the Bachelor of Arts (Pass).  
DRAM4060 Drama Honours II  
**Unit Value:** 20  
Drama Honours provides the opportunity to students who have distinguished themselves in Drama at 100-300 level (at a Credit level or better), to extend and develop particular areas of interest stimulated by the undergraduate program. As such, it forms an introduction to the world of international scholarship and research and offers a springboard for further post-graduate studies. The Honours program is intended to develop and strengthen writing and research skills, to challenge students intellectually and to test a student’s ability to pursue independent studies thereby acquiring skills which will be useful in many fields of endeavour. This course is studied in conjunction with DRAM405, DRAM406, and DRAM408, which together comprise the full Drama Honours program.  
**Contact hours:** 4 hours per week  
**Assumed Knowledge:** To have completed the requirements for admission to the Bachelor of Arts (Pass).  
DRAM4070 Drama Honours III  
**Unit Value:** 20  
Drama Honours provides the opportunity to students who have distinguished themselves in Drama at 100-300 level (at a Credit level or better), to extend and develop particular areas of interest stimulated by the undergraduate program. As such, it forms an introduction to the world of international scholarship and research and offers a springboard for further post-graduate studies. The Honours program is intended to develop and strengthen writing and research skills, to challenge students intellectually and to test a student’s ability to pursue independent studies thereby acquiring skills which will be useful in many fields of endeavour. This course is studied in conjunction with DRAM405, DRAM406, and DRAM408, which together comprise the full Drama Honours program.  
**Contact hours:** 4 hours per week  
**Assumed Knowledge:** To have completed the requirements for admission to the Bachelor of Arts (Pass).  
DRAM4080 Drama Honours IV  
**Unit Value:** 20  
Drama Honours provides the opportunity to students who have distinguished themselves in Drama at 100-300 level (at a Credit level or better), to extend and develop particular areas of interest stimulated by the undergraduate program. As such, it forms an introduction to the world of international scholarship and research and offers a springboard for further post-graduate studies. The Honours program is intended to develop and strengthen writing and research skills, to challenge students intellectually and to test a student’s ability to pursue independent studies thereby acquiring skills which will be useful in many fields of endeavour. This course is studied in conjunction with DRAM405, DRAM406, and DRAM407, which together comprise the full Drama Honours program.  
**Contact hours:** 4 hours per week  
**Assumed Knowledge:** To have completed the requirements for admission to the Bachelor of Arts (Pass).  
DSEP110 Business Economics  
**Unit Value:** 0  
Designed as an introductory unit of study of the dynamic nature of both the internal and external business environment and business processes in Australia.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** Nil  
DSEP130 Introduction to Australian History  
**Unit Value:** 0  
Students are introduced to Australian culture and society through the historical consideration of the growth of Australian national identity.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** English language skills  
DSEP140 English Studies  
**Unit Value:** 0  
Allows students to gain competence in the written, spoken and aural areas of the English language, primarily in the context of the Australian business and tertiary education sectors.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** Nil  
DSEP150 Information Technology  
**Unit Value:** 0  
Designed to provide Roskilde students with database computing skills and background knowledge that will help them further develop in learning web design and user interfaces in databases upon their return to Denmark. Students will create a set of normalised relations in 3NF, create E-R diagrams and manipulate databases consisting of 3-5 pages. A group project will be used to allow them to apply these skills in evaluating one aspect of a computerised business and create and marketing web page for that business.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** Basic word processing skills  
DSEP1650 Business Mathematics  
**Unit Value:** 0  
Extends the mathematical knowledge gained by the exchange students in the first year of their college course in Denmark.  
**Assumed Knowledge:** First Year Mathematics at Danish College  
DSEP1700 European Union  
**Unit Value:** 0  
Provides students with an exploration of the European Union and its international relationships of economic cooperation from a number of perspectives.  
**Contact hours:** 2 lecture hours and 3 tutorial hours per week  
**Assumed Knowledge:** Oral and written Danish language skills
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Unit Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSEP1750</td>
<td>Introduction to Marketing</td>
<td>0</td>
<td>Introduces the macro and micro business environment, analysing consumer and business markets, competitors, designing strategies and identifying marketing segments and selecting target markets in an Australian context. Lectures are theory driven with practical examples, whilst the tutorials are integrating the theory learnt from the lectures into practice, in the application of the marketing strategies. <strong>Contact hours:</strong> 1 lecture hour and 2 tutorial hours per week. <strong>Assumed Knowledge:</strong> Nil.</td>
</tr>
<tr>
<td>DSEP1800</td>
<td>Introduction to French</td>
<td>0</td>
<td>Provides a unit of study for Beginners to Intermediate level, of listening, reading, research and communication skills practice in French. <strong>Contact hours:</strong> 1 lecture hour and 2 tutorial hours per week. <strong>Assumed Knowledge:</strong> Beginner French.</td>
</tr>
<tr>
<td>DSEP1850</td>
<td>Introduction to German</td>
<td>0</td>
<td>Provides visiting Danish students with two units of work to facilitate their acquisition of the German language. <strong>Contact hours:</strong> 2 lecture hours and 3 tutorial hours per week. <strong>Assumed Knowledge:</strong> Oral and written Danish language skills.</td>
</tr>
<tr>
<td>DSEP1900</td>
<td>Introduction to Spanish</td>
<td>0</td>
<td>Develops Spanish language skills in the workplace and in social settings. Students learn to speak, read and write Spanish and gain an understanding of Spanish culture. <strong>Contact hours:</strong> 1 lecture hour and 2 tutorial hours per week. <strong>Assumed Knowledge:</strong> Nil.</td>
</tr>
<tr>
<td>DSEP1950</td>
<td>Danish</td>
<td>0</td>
<td>Provides visiting Danish students with a thematic study to further their acquisition of the Danish language. <strong>Contact hours:</strong> 1 lecture hour and 2 tutorial hours per week. <strong>Assumed Knowledge:</strong> Oral and written Danish language skills.</td>
</tr>
<tr>
<td>ECON1000</td>
<td>Microeconomics I</td>
<td>10</td>
<td>Introduces students to the basic concepts and tools in microeconomics including the concept of a market, the theory of consumer behaviour, and the theory of production and income distribution at the industry and enterprise level. The decision making behaviour in pricing and resource allocation of firms is examined. Provides a critical basis for appraising various theories of competitive and non-competitive behaviour in markets. Aims to provide students with tools that can be applied to real world problems. Applied topics include market failure, environmental and resource decisions, and income inequality. <strong>Assumed Knowledge:</strong> There is no assumed knowledge requirement.</td>
</tr>
<tr>
<td>ECON1110</td>
<td>Macroeconomics 1</td>
<td>10</td>
<td>Introduces macroeconomic concepts, principles and policy. Topics include national income, accounting, income and employment determination, inflation, balance of payments and monetary and fiscal policy. <strong>Assumed Knowledge:</strong> There is no assumed knowledge requirement.</td>
</tr>
<tr>
<td>ECON1130</td>
<td>Basic Econometrics and Quantitative Analysis I</td>
<td>10</td>
<td>Not available to B Business or B Information Science students. Introduces Quantitative Methods and Econometric Modelling and focuses on providing students with hands-on skills with modern software and techniques in the area of economics, commerce, finance and business. It will be heavily focused on developing problem-solving skills that are applicable to a business and policy environment. <strong>Assumed Knowledge:</strong> Nil.</td>
</tr>
<tr>
<td>ECON2300</td>
<td>Intro Labour Economics</td>
<td>10</td>
<td>Not available to Bachelor of Information Science students. Introduces students to concepts and analytical foundations of labour economics. Topics covered include labour supply, labour demand, wage determination, women in the workforce, employment, unemployment, training and education, and earnings inequality. <strong>Assumed Knowledge:</strong> ECON1100 and ECON1110.</td>
</tr>
<tr>
<td>ECON2330</td>
<td>Asian Business Development</td>
<td>10</td>
<td>Examines the development of business in South and East Asia, outlines and explains the distinctive features of Asian business enterprise. The topics discussed include the development of the business environment together with the origins and structure of firms in South and East Asia, the development of business organisation in Japan from the sixteenth century into the twentieth century and the rapid growth of the international economy from the late eighteenth century and its influence on Japanese business development and on Asian business generally. <strong>Assumed Knowledge:</strong> 30 units in any 100 level courses or 10 units in any 200 level courses or 10 units in Economic History at 200 level.</td>
</tr>
<tr>
<td>ECON2390</td>
<td>Business Economics</td>
<td>10</td>
<td>Analyses the economic issues surrounding the organisation and operation of firms both as individual economic units and in industry groupings. Emphasis will be placed on understanding the behaviour of firms and the constraints within which they operate. The performance of firms will be assessed from both a firm and social perspective. <strong>Assumed Knowledge:</strong> Background in economics equivalent to satisfactory completion of ECON1100 and ECON1110.</td>
</tr>
</tbody>
</table>
| ECON2450  | Basic Econometrics and Quantitative Analysis II | 10         | Develops the techniques learned in ECON113 and introduces basic econometric modelling techniques. Quantitative analysis topics include marginal analysis techniques, cost-benefit analysis and investment appraisal, financial mathematics, and input-output modelling. Basic econometrics introduces students to modelling techniques in economics, business, finance and commerce and develops the basic regression model in that context. Topics include simple regression, tests of hypotheses, and some elementary problems with the basic regression model including serial correlation and heteroskedasticity. Students will learn to use modern econometric software. **Contact hours:** 3 hours per week. **Assumed Knowledge:** ECON110 and ECON111 and ECON113.
ECON2460  Economics of Information and Networks
Unit Value:  10
Provides the foundation tools in the economic analysis and policy development in information and networks and will develop conceptual material as it is needed. The subject will rely heavily on case-study material drawn principally from the telecommunications, software and semiconductor industries.
Contact hours:  3 hours per week
Assumed Knowledge:  There is no assumed knowledge requirement

ECON2470  International Business Environment
Unit Value:  10
Begins with a brief overview of the contemporary global economy. There follows a review of some of the key forces that have shaped its nature; the development over time of international trade and capital flows and the rise of the national and then the multinational corporation. The final section of the course is concerned with recent developments in the global economy, finishing with a brief review of some of the implications for Australian business.
Contact hours:  3 hours per week
Assumed Knowledge:  There is no required assumed knowledge

ECON2500  Microeconomics II
Unit Value:  10
Covers some specialised microeconomics topics including theories of production and consumption, Pareto optimality conditions, market power and special aspects of imperfect competition. Students also consider microeconomic aspects of distribution theory, externalities and market failure, and economics of common property resources.
Contact hours:  4 hours per week
Assumed Knowledge:  ECON110 and ECON111

ECON2510  Macroeconomics II
Unit Value:  10
Develops an understanding of the principles of macroeconomic theory and policy analysis in the closed and open economy cases. Develops this understanding in the context of the interdependence of the real goods and the monetary-financial sectors of the economy. Aims to achieve a rudimentary understanding of the relevance and limitations of macroeconomic model building to the design and implementation of economic policy. Develops an analysis of the interactions of wages and prices on the supply side of the economy and examines the problem of inflation and unemployment.
Contact hours:  3 lecture hours and 1 tutorial per week
Assumed Knowledge:  The pre-requisite is ECON111 Macroeconomics I

ECON2520  Introduction to International Trade and Finance
Unit Value:  10
Introduces international trade and finance, examining concepts, theoretical relationships and policy issues. Students investigate reasons for trade between countries and its effect on the general welfare, and also study monetary and macroeconomic aspects of international economic relations. Topics include trade policy, the foreign exchange market, forward exchange, the determination of exchange rates, and exchange rate policy.
Assumed Knowledge:  ECON110 and ECON111

ECON2540  Money and Banking
Unit Value:  10
Introduces students to the institutional structure and functions of monetary and financial systems, with particular reference to Australia. Theoretical, operational, regulatory and policy aspects of financial systems are included.
Contact hours:  2 lecture hours per week plus 1 tutorial hour per fortnight
Assumed Knowledge:  ECON111 Macroeconomics I

ECON3060  International Business and Finance
Unit Value:  10
Examines the modern theory of international trade, as well as alternative theories, economic growth, preferential trading arrangements and international factor movements. The development of the international monetary system and foreign exchange markets is also examined. Topics also include recent trends in world trade, strategic trade policy, labour and capital migration, patterns of direct investment and exchange markets is also examined. Topics also include recent trends in world trade, strategic trade policy, labour and capital migration, patterns of direct investment and foreign participation in the growing international economy of the nineteenth century, a review of the implications on Australian business resulting from the rise of tariff protection, and the consequences for business deriving from the contemporary era of structural change. Case studies are extensively used and include the Rum Corps, the AA Company, pastoral and mining companies in the nineteenth and twentieth centuries, the financial sector, BHP and Australian entrepreneurship from Macarthur to Skase and Bond.
Assumed Knowledge:  30 units in any 2000 level subjects or 10 units from ECON204, ECON2330 or ECON2340

ECON3300  Labour Economics
Unit Value:  10
Consolidates and critically assesses contemporary microeconomic and macroeconomic labour market analysis. Links the theoretical material to contemporary empirical evidence, with reference to the use of Australian Bureau of Statistics publications and newspapers in the examination of current theoretical, economic and policy issues.
Assumed Knowledge:  ECON230 or ECON250 and ECON251

ECON3320  Environmental Economics
Unit Value:  10
Provides students with access to economic theory and policy related to the natural and built environment. Topics include exploitation of mineral and biological resources, conservation, biodiversity, cost-benefit analysis, climate change, urban sustainable development and the economic growth debate.
Assumed Knowledge:  Expected to have advanced to third year courses

ECON3330  Asian Business Development
Unit Value:  10
Examines the development of business in South and East Asia, outlines and explains the distinctive features of Asian business enterprise. The topics discussed include the development of the business environment together with the origins and structure of firms in South and East Asia, the development of business organisation in Japan from the sixteenth century into the twentieth century and the rapid growth of the international economy from the late eighteenth century and its influence on Japanese business development and on Asian business generally.
Assumed Knowledge:  There is no assumed knowledge

ECON3340  The Rise of Consumer Society
Unit Value:  10
Examines and explains the origins of the modern age of mass consumption and the impact on the contemporary approach to marketing. Topics discussed include the development of consumer goods production, including the leisure sector from early modern period in England to the twentieth century, the role of production industries in enabling consumption to grow, the growth of the international economy in the nineteenth century supporting both the diversification of consumption and transmitting consumption patterns globally and the development of contemporary marketing techniques in response to rising mass consumption.
Assumed Knowledge:  30 units in any 2000 level courses or 10 units from ECON204, ECON2330 or ECON2340

ECON3360  Australian Business History
Unit Value:  10
Studies the rich historical heritage of Australian business and its development. Students are shown the relevance of an historical understanding to contemporary business structures and practice. Topics include the development of Australian business structures from their origins to the present day, the impact of a high level of participation in the growing international economy of the nineteenth century, a review of the implications on Australian business resulting from the rise of tariff protection, and the consequences for business deriving from the contemporary era of structural change. Case studies are extensively used and include the Rum Corps, the AA Company, pastoral and mining companies in the nineteenth and twentieth centuries, the financial sector, BHP and Australian entrepreneurship from Macarthur to Skase and Bond.
Assumed Knowledge:  30 units in any 2000 level subjects or 10 units from ECON204, ECON2330 or ECON2340

ECON3400  Econometric Modelling and Forecasting
Unit Value:  10
Provides a thorough coverage of all the modern econometric approaches to modelling economic and business data. It develops a critical approach to model building and develops essential skills in forecasting techniques. Topics include the breakdown of Gaussian assumptions, maximum likelihood estimation, dynamic modelling of time series, random walks and stationarity, unit root testing, cointegrated systems, ARCH and GARCH processes, diagnostic testing and forecasting.
Contact hours:  3 hours per week
Assumed Knowledge:  ECON245

Guide to Undergraduate Programs - 2002  53
This course begins with a brief overview of the contemporary global economy. There follows a review of some of the key forces that have shaped its nature: the development over time of international trade and capital flows and the rise of the national and then the multinational corporation. The final section of the course is concerned with recent developments in the global economy, finishing with a brief review of some of the implications for Australian business.

**Assumed Knowledge:** There is no required assumed knowledge.

**ECON3600 Microeconomics III**

Unit Value: 10

Deals with topics in applied microeconomic analysis. Students use their acquired theory and tools to assess and question the rationale, aims and likely effects of government policy in selected topic areas, using an economic perspective.

**Contact hours:** 3 hours per week

**Assumed Knowledge:** ECON250

**ECON3610 Macroeconomics III**

Unit Value: 10

Extends and develops previously covered topics in applied Macroeconomic theory and policy, with a focus on the open economy. The impact of the international linkages of trade and finance are emphasised as well as the role of international and domestic investment.

**Contact hours:** 3 hours per week

**Assumed Knowledge:** ECON251

**ECON4100 Economics IVA**

Unit Value: 20

Students take five semester length courses from those currently offered at 400 level by the Department of Economics, although one 300 level course can be included. A supervised research essay not exceeding 10000 words is also required. Students are also required to take an 8-week (16 hour) seminar in Mathematical Economics. Compulsory topics are Macroeconomic Analysis and Microeconomic Analysis. Topics offered at 400 level include Advanced Econometric Modelling, Labour Economics, Issues in Australian Economic History, History of Economic Thought, Growth and Fluctuations, all courses in the Master of Trade and Development, Industry Economists and a special topic which varies from year to year. Subject to approval, a one semester course from other departments may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON245.

**Assumed Knowledge:** Appropriate grade point average in Bachelor pass degree

**ECON4110 Economics IVB**

Unit Value: 20

Students take five semester length courses from those currently offered at 400 level by the Department of Economics, although one 300 level course can be included. A supervised research essay not exceeding 10000 words is also required. Students are also required to take an 8-week (16 hour) seminar in Mathematical Economics. Compulsory topics are Macroeconomic Analysis and Microeconomic Analysis. Topics offered at 400 level include Advanced Econometric Modelling, Labour Economics, Issues in Australian Economic History, History of Economic Thought, Growth and Fluctuations, all courses in the Master of Trade and Development, Industry Economists and a special topic which varies from year to year. Subject to approval, a one semester course from other departments may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON245.

**Assumed Knowledge:** Appropriate grade point average in Bachelor pass degree

**ECON4120 Economics IVC**

Unit Value: 20

Students take five semester length courses from those currently offered at 400 level by the Department of Economics, although one 300 level course can be included. A supervised research essay not exceeding 10000 words is also required. Students are also required to take an 8-week (16 hour) seminar in Mathematical Economics. Compulsory topics are Macroeconomic Analysis and Microeconomic Analysis. Topics offered at 400 level include Advanced Econometric Modelling, Labour Economics, Issues in Australian Economic History, History of Economic Thought, Growth and Fluctuations, all courses in the Master of Trade and Development, Industry Economists and a special topic which varies from year to year. Subject to approval, a one semester course from other departments may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON245.

**Assumed Knowledge:** Appropriate grade point average in Bachelor pass degree

**ECON4130 Economics IVD**

Unit Value: 20

This is one part of an 80 units Honours program required to satisfy University requirements. Part ECONIV A - ECONIV A - ECONIV B - ECONIV C and ECONIV C - ECONIV D, are the other three components. The program consists of 6 coursework topics (3 of which are compulsory), from a range offered according to staff availability, two seminar presentations, and a 10,000 word research essay.

**Assumed Knowledge:** Appropriate grade point average in Bachelor pass degree

**ECON41920 Economics for Business**

Unit Value: 10

Draws upon the basic economic principles that underpin society and the business environment with a view to providing the economic analytic skills necessary for a critical understanding of enterprises in a global environment. The content is contemporary in its perspective, and relates to public and private enterprises. In addition, it presents from an economic viewpoint the conceptual underpinnings necessary for practical policy development and implementation.

**Contact hours:** 2-3 hours per week

**Assumed Knowledge:** None.

**EDST1000 Learners and Learning**

Unit Value: 10

Introduces students to the nature of learners and the learning process. It aims to create understanding through the use of psychological and sociological approaches to human development and individual differences to learning.

**Assumed Knowledge:** Nil

**EDST1010 Foundations for Teaching**

Unit Value: 10

Develops understanding of the nature of teacher’s work and the contexts in which it is carried out. It introduces students to the roles and responsibilities of the teacher, and the relationships among teachers as individuals, professional roles, pedagogical practices, and promotes students’ understandings of the profession of teaching.

**Assumed Knowledge:** Nil. For students commencing mid-year, this will be their first education subject.

**EDST1020 Literacies for the Middle Years**

Unit Value: 10

Assists students to gain skills and knowledge for the teaching profession, as well as introducing the concept of critical literacy. Literacy for the Middle Years focuses on the social construction of discourses and their associated texts as they relate to the middle years of school.

**Contact hours:** 3 hours per week

**Assumed Knowledge:** NA

**EDST1200 Social and Environmental Studies Curriculum**

Unit Value: 10

Introduces students to the social and environmental studies curriculum area and contemporary practices in inquiry-based learning are explored. The implications for teaching and learning of a values-based area are introduced. To set the historical context of social and environmental studies, the contributions of educators to the development of inquiry-based learning are identified. Students will reflect critically upon contemporary issues in social and environmental studies and investigate their own values and beliefs. They will examine appropriate contemporary practices for programming, implementation, assessment and evaluation in social and environmental studies.

**Contact hours:** 3 hours per week.

**Assumed Knowledge:** Nil

**EDST1400 Foundations in Early Childhood Education**

Unit Value: 10

Introduces the variety of early childhood services and the range of staff roles within these services. It will focus on the provision of high quality programs for birth to eight year old children. Key elements of education for birth to eight-year-olds will be studied; these will include adult-child interactions, caregiving routines, play, developmentally appropriate practice and planning for individuals’ needs. Emphasis will be placed on an approach that recognises children as active participants in their own learning.

**Contact hours:** 3 hours per week.

**Assumed Knowledge:** Nil

**EDST1500 Music, art and humanity**

Unit Value: 10

Focuses on the development of creative awareness, individual skill development and the acquisition of a positive arts self-concept. Through the investigation of arts as social semiotics, students will develop a fundamental understanding of key concepts in music and visual arts, and extend their current level of aesthetic awareness.

**Contact hours:** 3 hours per week.

**Assumed Knowledge:** Nil

**EDST1510 Development in Context 1**

Unit Value: 10

Focuses on human development from conception through to the preschool years. Students will examine principles, processes and practices that underpin various approaches to the explanation of how humans grow and develop over time. Through the study of historical and contemporary theories students will explore a range of methods of data gathering and interpretation and critically analyse various research paradigms.

**Contact hours:** 3 hours per week.

**Assumed Knowledge:** Nil
EDST1520  Issues in Adolescent Development
Unit Value: 10
Provides the basis for understanding adolescent development in an ecological context. It will address issues relevant to the provision of educational experiences for young adolescents. Biological, social, emotional and personality development will be contextualised in terms of challenges to development in today’s society.
Contact hours: 3 hours per week.
Assumed Knowledge: n/a

EDST2030  Behaviour and Classroom Management
Unit Value: 10
Provides a comprehensive introduction to the management of behaviour in classroom. It focuses upon identification and assessment of student needs, with a strong practical emphasis on program development and intervention.
Contact hours: 3 hours per week.
Assumed Knowledge: Nil

EDST2050  Field Experience 1
Unit Value: 10
Field Experience 1 is the first in a series of field experiences that allow the student to link theory to practice through stages that are sequential, cumulative and complemen-
tary. Students will link theory to practice by observing a variety of children’s learning experiences to associated lectures.
Contact hours: 3 hours per week and 10 days field experience.
Assumed Knowledge: Foundations for Teaching

EDST2060  Field Experience 2
Unit Value: 10
Field Experience 2 is the second in a series of field experiences that allow the student to start to practice and reflect on their teaching. Students will have the opportunity to plan, teach and evaluate lessons within the context of their specialisation.
Contact hours: 15 days in the field.
Assumed Knowledge: Field Experience 1 or equivalent.

EDST2110  Social & Cultural Contexts in Education
Unit Value: 10
Introduces the student to disciplined inquiry into the social and cultural dimensions of education. It aims to develop critical and socially informed thinking about the processes of education and schooling.
Assumed Knowledge: Nil

EDST2200  Teaching Language and Literacy
Unit Value: 10
Prepares students to create supportive and effective environments for learning language and literacy within the K-8 setting. Students will examine contemporary practices for assessing children’s needs. Students will plan for, teach and evaluate language and literacy.
Contact hours: 3 hours per week.
Assumed Knowledge: Introduction to Linguistics

EDST2210  Science and Technology in Classrooms
Unit Value: 10
Integrates scientific and technological understandings with appropriate teaching strategies for primary classrooms. It aims to provide both discipline knowledge appropriate for application in primary classrooms and the skills that will assist beginning teachers to integrate learning areas through a design-make-appraise process. The contingent relationships between “doing” science and the development of appropriate technologies is identified.
Contact hours: 3 hours per week.
Assumed Knowledge: NIL

EDST2300  Secondary Teaching Method 1
Unit Value: 10
Introduces students to the theoretical and practical issues related to planning and teaching in their major teaching area. It focuses on junior secondary and introduces students to the processes involved in translating curriculum into classroom teaching and learning experiences, assessing student achievement and teacher reflection on the teaching/learning process.
Contact hours: 3 hours per week.
Assumed Knowledge: Discipline Major 100 level

EDST2400  Approaches to Early Childhood Curriculum
Unit Value: 10
Builds on students’ foundation knowledge in early childhood curriculum to set current practices within a historical context. Students will reflect critically on current movements and issues in early childhood curriculum and their implications for future directions in curriculum.
Contact hours: 3 hours per week.
Assumed Knowledge: Foundations in Early Childhood Curriculum

EDST2410  Learning through Creative Arts 0-5
Unit Value: 10
Extends the skills developed in music, arts and humanity, and introduces the student to specific pedagogy for music, visual arts and drama in the early years. Students will examine contemporary pedagogies designed specifically for children in the early years and will explore the best practices for integrating these into the classroom.
Contact hours: 3 hours per week.
Assumed Knowledge: Music, art and humanity

EDST2420  Emerging Literacy and Numeracy
Unit Value: 10
Introduces students to development in literacy and numeracy which occurs in the years prior to school entry. Students will explore ways in which teachers facilitate emerging literacy and numeracy within the early childhood programs and support children’s early learning through building partnerships with families and communities.
Contact hours: 3 hours per week.
Assumed Knowledge: N/A

EDST2500  Learning through Play
Unit Value: 10
Assists students in their understanding and appreciation of play as a valuable pursuit in childhood and as a means of achieving optimal development within their social contexts. Students will be given the opportunity to explore the elements of suitable play environments and the role of play materials in enabling children to explore their world and represent and reflect upon their experiences.
Contact hours: 3 hours per week.
Assumed Knowledge: NIL

EDST2510  Development in Context 2
Unit Value: 10
Builds on the foundation knowledge of children’s development and focuses on contemporary frameworks emphasising social influences on the opportunities that children have to grow up healthy, secure and valued. Students will use principles from these frameworks to collect information about children using advanced techniques.
Assumed Knowledge: EDST1510 Development in Context 1

EDST3030  Catering for Children with Special Educational Needs
Unit Value: 10
Explores issues, attitudes and concepts relevant to the education of children with special educational needs. Students will develop an awareness of the individual and family needs of children with disabilities or who are considered to be at risk because their needs differ in some way. They will also develop knowledge of instructional techniques and practices designed to maximise the effectiveness of teaching and learning experiences for children with special educational needs in regular classrooms.
Contact hours: 3 hours per week.
Assumed Knowledge: Nil

EDST3060  Field Experience 3
Unit Value: 10
Field Experience 3 is the third in a series of field experiences that allow the student to develop teaching skills appropriate to a beginning professional through stages that are sequential, cumulative and complementary. Field Experience 3 will provide the student the opportunity to extend on the basic level of planning and teaching, and to develop a series of lessons as well as being able to cater for children with special needs. As well, students will develop a more critical and reflective approach to their evaluation of lessons.
Assumed Knowledge: Field Experience 1 or equivalent

EDST3070  Early Childhood Literacies
Unit Value: 10
Extends student knowledge of early literacy to explore the multiple literacies included in the concept of literacy as social practice, including everyday texts, information technology, popular culture, and languages and literacies other than English. Students develop the ability to facilitate their central role in developing inclusive literacy practices that support children’s early literacy in range of social and cultural contexts.
Contact hours: 3 hours per week.
Assumed Knowledge: Content contained in the subject “Emerging Literacy and Numeracy”

EDST3080  Program Development and Evaluation
Unit Value: 10
Prepares students for their future roles as managers of program development and evaluation. It focuses on understandings of the nature of program development and evaluation and a range of factors that influence this process.
Assumed Knowledge: NIL
EDST3200 Teaching & Learning in Maths K-6
Unit Value: 10
Introduces students to the major concepts in the teaching of mathematics for K-6. Lectures will present core understandings that will be developed experientially through tutorials. Emphasis will be placed upon the study of the special methodologies associated with the teaching of the content of the NSW K-6 Mathematics Syllabus.
Assumed Knowledge: NA

EDST3210A Mathematics, Science & Technology & HSIE EC Part A
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Provides students with understandings of young children’s development in relation to the learning of science, technology, mathematics and social education. Students plan, implement and evaluate appropriate learning experiences for young children in the areas of science, technology, mathematics and social education.
Assumed Knowledge: MATH190C

EDST3210B Mathematics, Science & Technology & HSIE EC Part B
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B.
Provides students with understandings of young children’s development in relation to the learning of science, technology, mathematics and social education. Students plan, implement and evaluate appropriate learning experiences for young children in the areas of science, technology, mathematics and social education.
Assumed Knowledge: MATH190C

EDST3220 Health and Physical Education
Unit Value: 10
Develops an understanding of concepts and issues that are important to the development of healthy lifestyles from an early age. Specifically, it provides knowledge of national initiatives in nutrition and health, of the role of health promoting and prior to school settings, and of the benefits of physical activity for lifelong health in the context of current curriculum.
Assumed Knowledge: Nil

EDST3230 Teaching and Learning in Primary
Unit Value: 10
Designed for students to gain knowledge and understandings, skills and values and understandings necessary for teaching the K-6 curriculum through an integrated approach, with a focus on HSIE, PDH/PE and Science and Technology K-6 syllabuses.
Assumed Knowledge: Nil

EDST3300 Secondary Teaching Method 2
Unit Value: 10
Extends students’ knowledge and skills in their major teaching subject. It focuses on the development of units of work for different stages of the secondary school, assessment of the outcomes of teaching and learning and evaluation of units of work.
Assumed Knowledge: Discipline Major 2000 level Issues in Adolescent Development Foundations for Teaching

EDST3400 World and work: The whole teacher
Unit Value: 10
Provides beginning teachers with the opportunity to explore current issues in early childhood education in relationship to their emerging professional persona. Students will be encouraged to critically analyse contemporary global trends in early childhood and develop a defensible image of a teacher that will form the basis for their Internship experience (BEd students) or initial employment as a teacher (BECT).
Assumed Knowledge: Learners and learning Foundations in Early Childhood Curriculum Foundations of Teaching Program Development and Evaluation

EDST3500 Leadership, Communication and Change Management
Unit Value: 10
Introduces students to leadership in early childhood settings. Current trends in leadership styles and the relevance of leadership theories will be explored. Major areas that will be examined include professional communication and interpersonal relations, planning and organisation of services, financial management and staff development.
Contact hours: 3 hours per week and 5 days field experience.
Assumed Knowledge: nil

EDST3510 Theoretical Foundations Of Early Childhood Studies
Unit Value: 10
Explores the philosophical and theoretical foundations of early childhood studies. Students will be expected to demonstrate understandings of these influences on the development and implementation of programs for young children, and understanding of current issues in early childhood studies.
Assumed Knowledge: EDUC2001 Developmental Foundations of Early Childhood

EDST4010 Teachers, Research and Practice
Unit Value: 10
Addresses issues of reflective teacher practice and the role of teacher as researcher in a changing workplace.
Assumed Knowledge: EDTE 112 plus two teaching and learning subjects at 200 or 300 level as assumed or concurrent knowledge.

EDST4020 Understanding Curriculum
Unit Value: 10
Develops theoretical knowledge and practical skills in interpreting curriculum and educational policy to teach and assess students in specific subject areas related to their major or minor teaching specialisations.
Contact hours: 3 hours per week
Assumed Knowledge: EDEN321 or equivalent Year 3 teaching and learning subject in other subject area.

EDST4140 Aboriginal Education
Unit Value: 5
Focuses on the history of education since European settlement, from an Aboriginal perspective. Some social issues to be considered as impacting upon Aboriginal education include health, housing and the difference between expectations of behaviour at home and at school.
Assumed Knowledge: Nil

EDST4300 Secondary Teaching Method 3
Unit Value: 10
Builds upon students’ previously acquired understandings of the principles and practices of teaching and learning in their major teaching subject, in order to facilitate the application of this knowledge and understanding to a second teaching subject area.
Assumed Knowledge: Secondary Teaching Method 1 Secondary Teaching Method 2 Field Experience 2 Field Experience 3

EDST4400 Literacies across the Early Childhood Curriculum
Unit Value: 5
Embraces community concerns that proposes teachers take a pivotal and responsible role in establishing and maintaining skills of literacy.
Teaching techniques incorporating individual student involvement in practical activities give students the opportunity for personal success of worthwhile nature, thus ensuring interest, participation and enjoyment.
Contact hours: 3 hours per week.
Assumed Knowledge: Admission to fourth year of program.

EDUC1001 Design & Technology Teaching Studies 1A
Unit Value: 10
Explores graphical aspects of the Design & Technology 7-10 syllabus and the related syllabi. Students will be expected to achieve levels of competency across the wide range of graphical drawing techniques. The course will involve all students completing practical involvement in a number of extended graphical problems. Seminars based on elements of the syllabus will be prepared and presented by the students in consultation with the lecturer, in order to explore the teacher responsibilities involved in facilitating the syllabus outcomes.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC1002 Design & Technology Teaching Studies 1B
Unit Value: 10
Explores graphical aspects of the School Certificate Technical Drawing Syllabus and the Design & Technology 7-10 syllabus which contains two courses, a mandatory 200 hour D&T course and an optional 200 D&T course. The course will involve all students completing by practical involvement a number of graphical problems which involve the use of Computer Aided Technology (CAD) as a visual communication tool.
Contact hours: 3 hours per week
Assumed Knowledge: Nil
EDUC1003 Learners and the Learning Process 1
Unit Value: 10
Provides opportunities for students to develop knowledge and understanding of learners and the learning process and their implications for educational planning and practice. Introduces students to key concepts in relation to these areas and challenges them to develop both reflective and professional capabilities.
Contact hours: 3 hours per week or equivalent online
Assumed Knowledge: Nil pre- or co-requisites

EDUC1004 Contexts of Teaching 1
Unit Value: 10
Designed to introduce students to the multiple, interacting contexts that situate teaching practice. Students will examine the structural, sociocultural, historical and biographical contexts of teaching and critically reflect on their interaction and implications for teaching practice.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC1005 Professional Preparation 1A
Unit Value: 10
Introduces the profession of teaching. Students are expected to observe practising teachers and to act as novice teachers themselves. A major focus will be learning and what effective teachers must know about learners. This includes current theories of learning, developmental differences among learners, and ways in which teachers can help students to learn. In addition, students will be introduced to various aspects of teaching, including teaching as a profession, legal and ethical aspects of teaching, beliefs about teaching and learning and resulting behaviours, and problems confronting novice teachers. A second focus will be the development of technology skills in relation to teaching and learning.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC1006 Professional Preparation 1B
Unit Value: 10
Provides students with the foundational knowledge and skills about teaching that they will need in order to become a specialist teacher in Early Childhood, Primary or a Secondary specialisation. It emphasises the need for all teachers to focus on quality learning that is relevant to students, actively work towards equity in their classroom, create supportive learning environments, and continually use self-reflection as a means of improving their knowledge and skills.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC1021 School Performance Studies 1
Unit Value: 10
This is the first in a series of courses designed to develop in students the knowledge and skills to be able to organise and implement performance activities in the school setting.
Assumed Knowledge: Nil

EDUC1022 School Performance Studies 2
Unit Value: 10
This is the second in a series of courses designed to develop in students the knowledge and skills to be able to organise and implement performance activities in the school setting.
Assumed Knowledge: Nil

EDUC2001 Developmental Foundations of Early Childhood
Unit Value: 10
Examines development from conception through infancy and early childhood to age eight. Students develop an understanding of developmental concepts, principles and processes, research methods and ethics, and various theoretical perspectives relating to child development, and the implications for early childhood education.
Assumed Knowledge: Nil

EDUC2002 Early Childhood Curriculum Studies I
Unit Value: 10
Examines historical, philosophical, theoretical and sociocultural foundations of early childhood education. Topics include the origins of and influences on programs for young children, contemporary approaches to curriculum development and implementation, and current issues in early childhood education. It includes a critical analysis and appraisal of curriculum and issues for infants, toddlers, and preschool children.
Contact hours: 3 hours per week
Assumed Knowledge: ECST231

EDUC2003 Teaching and Learning in Drama 1
Unit Value: 10
Prepares student teachers in the basic skills needed to teach drama in secondary schools. The skills include understanding the needs of learners, the ability to plan structured lessons which will interest and motivate students, the ability to follow lesson plans during teaching episodes and the ability to reflect upon the teaching which has taken place.
Contact hours: 3 hours per week
Assumed Knowledge: some study of Drama at the university level

EDUC2004 Teaching and Learning in Drama 2
Unit Value: 10
Focuses on the variety of teaching strategies which can be used in drama classrooms in teaching years 7-12.
Contact hours: 3 hours per week
Assumed Knowledge: EDDR221

EDUC2005 Teaching & Learning in Design & Technology 1
Unit Value: 10
Builds on students understandings of the responsibilities and obligations of being to teach Design and Technology. They will gain a critical understanding of the Design and Technology syllabus in specific and Technology and Applied Studies curriculum generally in secondary schools. It will raise important issues related to programming, unit outcomes, sequencing effective learning experiences, teaching behaviours and student assessment. Students will have the opportunity to examine these issues in relation to an authentic learning and teaching environment.
Contact hours: 2 hours per week
Assumed Knowledge: EDDR221 Teaching and Learning in Design & Technology 1 or other related professional development courses.

EDUC2006 Teaching & Learning in Design & Technology 2
Unit Value: 5
Provides the background knowledge that students will need in order to use effectively and range of teaching strategies appropriate to teaching Design & Technology specifically and Technology and Applied Studies curriculum generally in secondary schools. It will raise important issues related to programming, unit outcomes, sequencing effective learning experiences, teaching behaviours and student assessment. Students will have the opportunity to examine these issues in relation to an authentic learning and teaching environment.
Contact hours: 3 hours per week
Assumed Knowledge: EDDR221 Teaching and Learning in Design & Technology 2

EDUC2007 Teaching & Learning in Design & Technology 3
Unit Value: 10
Provides the background knowledge that students will need in order to use effectively and range of teaching strategies appropriate to teaching Design & Technology specifically and Technology and Applied Studies curriculum generally in secondary schools. It will raise important issues related to programming, unit outcomes, sequencing effective learning experiences, teaching behaviours and student assessment. Students will have the opportunity to examine these issues in relation to an authentic learning and teaching environment.
Contact hours: 2 hours per week
Assumed Knowledge: EDDR221 Teaching and Learning in Design & Technology 2 or other related professional development courses.

EDUC2008 Design & Technology Teaching Studies 2
Unit Value: 10
This course introduces students to the fundamentals of analysing a design brief and implementing and exploring design solutions within a secondary school context. Through a critical analysis of the 7-10 Design & Technology syllabus students will acquire understandings across the range of contexts areas nominated in the syllabus. Students will explore their own design and making skills, then apply these understandings to develop learning experiences appropriate for school contexts.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC2009 Professional Experience 1A (0-5)
Unit Value: 5
Enables students to apply learnings from campus-based courses, and to analyse and reflect on campus about experiences in early childhood services with children aged from birth to five years. In addition, professional experience provides students with the opportunity to engage in new learning and to develop the teaching techniques, strategies and understandings that are best learnt in the workplace.
Contact hours: As required
Assumed Knowledge: It is desirable that students have successfully completed all courses in the program at the 100 level and are undertaking Professional Experience 1A concurrently with EDTE231 Professional Preparation 2.
EDUC2010 Professional Experience 1B (K-2)
Unit Value: 5

Enables students to apply learnings from campus-based courses, and to analyse and reflect on campus about experiences with children aged from five to eight years in school settings. In addition, professional experience provides students with the opportunity to engage in new learning and to develop the teaching techniques, strategies and understandings that are best learnt in the workplace.

Contact hours: N/A
Assumed Knowledge: It is desirable that students have completed successfully all courses in the program at the 100 level, EDEC202 Professional Experience 1A, EDTE231 Professional Preparation 2 and be undertaking Professional Experience 1B concurrently with EDEC211 Professional Preparation 2A.

EDUC2011 Professional Preparation 2A
Unit Value: 5

Focuses on particular professional preparation needs that apply to early childhood teachers. Built around a single 'rich task' that requires students to fulfill both individual and group responsibilities that are relevant to early childhood teachers' work. The particular focus is on issues pertaining to programming, planning and assessment.

Contact hours: 2 hours per week
Assumed Knowledge: EDTE131, EDTE132, EDTE231

EDUC2012 English for Early Childhood Education
Unit Value: 10

Prepares students to support language and literacy learning in early childhood settings. Topics include reading/writing processes, culture and language, views of language, text types, writing conventions, programming and assessment, and teaching/learning strategies.

Contact hours: 3 hours per week
Assumed Knowledge: LING111

EDUC2013 Mathematics for Early Childhood Education
Unit Value: 10

Provides students with an understanding of young children’s development in relation to the learning of mathematics. Students plan, implement and evaluate appropriate learning activities in the area of mathematics.

Contact hours: 3 hours per week
Assumed Knowledge: MATH190

EDUC2014 Teaching and Learning in English 1
Unit Value: 10

Prepares students in the skills needed to teach English in secondary schools. The skills include understanding the needs of learners, the ability to plan structured lessons which will interest and motivate students, and an understanding of classroom management.

Contact hours: 3 hours per week
Assumed Knowledge: nil

EDUC2015 Teaching and Learning in English 2
Unit Value: 10

Prepares students with a background knowledge of teaching strategies appropriate for English classes in years 7-12. An examination of appropriate syllabus documents including outcomes, assessment and programming is also included.

Contact hours: 3 hours per week
Assumed Knowledge: nil

EDUC2016 Teaching & Learning in English 2
Unit Value: 5

Aims to develop skills and understanding in presenting English subject content through differing media.

Contact hours: 2 hours per week
Assumed Knowledge: EDED221

EDUC2017 Teaching & Learning in Language other than English
Unit Value: 10

Prepares student teachers in the basic skills needed to teach LOTE in the secondary school.

Contact hours: 3 hours per week
Assumed Knowledge: n/a

EDUC2018 Teaching & Learning In LOTE 2
Unit Value: 10

Focuses on various teaching strategies and their application in teaching LOTE in secondary schools.

Contact hours: 3 hours per week
Assumed Knowledge: EDLA221

EDUC2019 Teaching and Learning in Mathematics 1
Unit Value: 10

Prepares students in the basic skills needed to teach mathematics in secondary schools. Students will learn to plan well-structured lessons and how to present lessons effectively. The basics of classroom management will also be introduced.

Contact hours: 3 hours per week
Assumed Knowledge: EDTE111, EDTE131, EDTE132 or equivalent subjects

EDUC2020 Teaching and Learning Mathematics 2
Unit Value: 10

Focuses on teaching strategies which can be used in mathematics classrooms. A range of teaching strategies will be studied, including both teacher-centred and student-centred approaches. The application of these approaches to the NSW 7-12 syllabus will be examined.

Contact hours: 3 hours per week
Assumed Knowledge: EDMA221 Teaching and Learning in Mathematics 1

EDUC2021 Teaching and Learning in Mathematics 2
Unit Value: 5

Focuses on teaching strategies which can be used in mathematics classrooms. A range of teaching strategies will be studied, including both teacher-centred and student-centred approaches. The application of these approaches to the NSW 7-12 syllabus will be examined.

Contact hours: 2 hours per week
Assumed Knowledge: EDMA221 Teaching and Learning in Mathematics 1

EDUC2022 Teaching & Learning in Music 1
Unit Value: 10

First in a sequence of five subjects designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music in schools.

Contact hours: 3 hours per week
Assumed Knowledge: EDTE111, EDTE131 and EDTE132

EDUC2023 Teaching Learning in Music 2
Unit Value: 10

Second in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music in schools. In particular, this course focuses on the teaching of instrumental performance in school classrooms and co-curricular performance activities.

Contact hours: 2 hours per week
Assumed Knowledge: EDTE111, EDTE131, EDMU220

EDUC2024 Teaching & Learning in Physical Education 2
Unit Value: 10

Develops skills and understanding in planning, teaching, assessing and managing learning in the PD/HPE area within secondary schools.

Contact hours: 3 hours per week
Assumed Knowledge: Year one education subjects or equivalent

EDUC2025 Teaching & Learning in Health & Physical Education 1
Unit Value: 10

Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PD/HPE in secondary schools.

Contact hours: 3 hours per week
Assumed Knowledge: Year one education subjects, EDPH221 or equivalent subjects.

EDUC2026 Teaching & Learning Health & Physical Education 2
Unit Value: 10

Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PD/Health/PE in secondary schools. A focus on school sport organisation, and regional administration of sport is included.

Contact hours: 2 hours per week
Assumed Knowledge: EDTE131, EDTE132 and EDPH221 or equivalent subjects.

EDUC2027 Teaching and Learning in PDHPE 2
Unit Value: 5

Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PD/Health/PE in secondary schools. A focus on school sport organisation, and regional administration of sport is included.

Contact hours: 10 days field experience
Assumed Knowledge: EDTE111, 131, 132 or equivalent subjects.
EDUC2029  Professional Experience 1B
Unit Value:  5
Requires the students to undertake the equivalent of 10 days school-based experience in a K-6 setting. Where possible, students will be placed in the school in which they undertook EDPR201. Practicum tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: 10 days field experience
Assumed Knowledge:  EDTE111, 131, 132 or equivalent subjects

EDUC2030  Teaching and Learning in English K-6
Unit Value:  10
Designed to develop students understanding of the nature of language and literacy and how children learn to be effective language and literacy users. On this theoretical basis, students will develop teaching skills that enable them to effectively support and assess language and literacy development. Students are required to undertake field experiences in schools.
Contact hours: 3 hours per week
Assumed Knowledge:  LING111

EDUC2031  Teaching and Learning in Mathematics K-6
Unit Value:  10
Introduces students to the major concepts in the teaching of mathematics for K-6. Lectures will present core understandings that will be developed through experiential learning through workshops. Emphasis will be placed upon the study of the special methodologies associated with the teaching of the content of the NSW K-6 Mathematics Syllabus.
Contact hours: 3 hours per week
Assumed Knowledge:  MATH190 - Elementary Mathematics

EDUC2032  Teaching and Learning in Science and Technology
Unit Value:  5
Prepares students to teach mathematics at secondary level. It will focus on specific aspects of the NSW mathematics Stages 4-6 syllabus, with particular emphasis on contemporary policies, issues and standards in mathematics, both national and international, as they apply to the NSW secondary mathematics syllabi. The subject will examine appropriate teaching and assessment strategies for the implementation of these syllabus innovations in the classroom.
Contact hours: 3 hours per week
Assumed Knowledge:  SCM1203, Foundations in Science and Technology

EDUC2033  Teaching & Learning in Science 1
Unit Value:  10
Prepares student teachers in the basic skills needed to teach science in secondary schools. The skills include understanding the needs of learners, the ability to plan structured lessons which will interest and motivate students, the ability to follow lesson plans during teaching episodes and the ability to reflect upon the teaching which has taken place. The subject will also provide an introduction to classroom management.
Contact hours: 3 hours per week
Assumed Knowledge:  Nil

EDUC2034  Teaching and Learning in Science 2
Unit Value:  10
Focuses on teaching strategies which can be used in science classrooms. A range of teaching strategies will be studied, including both teacher-centred and student-centred approaches. The application of these approaches to the NSW 7-12 syllabus will be examined.
Contact hours: 3 hours per week
Assumed Knowledge:  EDSC221 Teaching and Learning in Science 1
EDC2035 Teaching and Learning in Science 2
Unit Value:  5
Focuses on teaching strategies which can be used in science classrooms. A range of teaching strategies will be studied, including both teacher-centred and student-centred approaches. The application of these approaches to the NSW 7-12 syllabi will be examined.
Contact hours: 2 hours per week
Assumed Knowledge:  EDSC221 Teaching and Learning Science 1

EDUC2036  Teaching & Learning in Social Sciences 1
Unit Value:  10
Introduces students to Human Society and its Environment syllabuses Years 7-10, and provides an understanding of the pedagogy and classroom strategies related to this level of the secondary school. There will be an emphasis on the teaching of history.
Contact hours: 3 hours per week
Assumed Knowledge:  Nil

EDUC2037  Teaching & Learning in Social Sciences 2
Unit Value:  10
Provides students with the understanding, skills, processes and attitudes necessary to teach Social Sciences in schools.
Contact hours: 3 hours per week
Assumed Knowledge:  EDSS221

EDUC2038  Teaching & Learning in Social Science 2
Unit Value:  5
Second in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach the Social Sciences in schools. In particular this subject focuses on the teaching of Geography.
Contact hours: 2 hours per week
Assumed Knowledge:  EDTE131, EDTE132

EDUC2039  Professional Experience 1
Unit Value:  10
A program consisting of approximately 20 days of school-based experience. Observations of learners, teachers and the teaching environment occur. Opportunities to plan, teach, manage, assess and reflect on aspects of teaching are provided.
Contact hours: 20 days field experience
Assumed Knowledge:  EDTE131, EDTE132

EDUC2040  Professional Preparation 2
Unit Value:  5
Focuses on the particular professional preparation needs that apply to teachers in all sectors of the education system. The subject is built around a single ‘rich task’ that requires students to fulfil both individual and group responsibilities that are relevant to teachers’ work. The particular focus is on issues pertaining to management and welfare of students.
Contact hours: 2 hours per week
Assumed Knowledge:  EDTE131, EDTE132 or equivalent subjects.

EDUC2041  Teaching and Learning in Visual Arts 1
Unit Value:  10
Builds on students understanding of the responsibilities and obligations of belonging to the profession of teaching. Students will understand the rationale and the aims of the 7-10 Visual Arts syllabuses in NSW while developing the skills to plan, implement and evaluate small units of work and the sequencing of learning experiences.
Contact hours: 3 hours per week
Assumed Knowledge:  Year one education subjects

EDUC2042  Teaching & Learning Visual Arts 2
Unit Value:  10
Focuses on junior secondary programming in design, graphic communication and critical studies and the development of instructional resources to support selective programs. The course has two components: an introduction to a variety of teaching strategies appropriate for the secondary school and workshop/tutorial sessions on planning, practising and reflecting on instructional strategies.
Assumed Knowledge:  EDUC1003, EDUC2044 or equivalent course

EDUC2043  Teaching & Learning in Visual Arts 2
Unit Value:  5
Examines a variety of teaching strategies appropriate for teaching visual arts in the secondary school. The focus is on planning, practising and reflecting on instructional strategies.
Contact hours: 2 hours per week
Assumed Knowledge:  EDVA221

EDUC2044  Professional Experience 1
Unit Value:  10
Requires students to undertake the equivalent of 20 days work place experience in a 0-5 setting. Students will apply learning from campus based courses and engage in new learning to develop the teaching techniques, strategies and understandings that are best learnt in the workplace.
Assumed Knowledge:  Year 1 of the program
EDUC2001 Developmental Foundations in EC I (10 units),
EDUC2002 EC Curriculum Studies I (10 units),
EDUC2040 Professional Preparation 2 (5 units),
Concurrent Assumed Knowledge:  EDUC2011 Professional Preparation 2A (5 units)

EDUC2045  Professional Preparation and Experience 2A
Unit Value:  10
This subject has two equal and mutually dependent components.
Part A: Professional Preparation aims to build professional knowledge and competence in student management and welfare.
Part B: Professional Experience requires the student to undertake the equivalent of 10 days school-based experience in a K-6 setting. Where possible students will be placed in pairs, to facilitate collaborative learning and reflection.
Assumed Knowledge:  EDUC1003 Learners and the Learning Process (10 units), EDUC1005 Professional Preparation 1A (10 units), EDUC1004 Contexts of Teaching 1 (10 units), EDUC1006 Professional Preparation 1B (10 units)
EDUC2049 Professional Preparation and Experience 2B  
Unit Value: 10
This subject has two equal and mutually dependent components.

Part A: Professional Preparation aims to build professional knowledge and competence in multi-level teaching designed to address the diversity of student needs in a classroom.

Part B: Professional Experience requires the student to undertake the equivalent of 10 days school-based experience in a K-6 setting. Where possible students will be placed in pairs, to facilitate collaborative learning and reflection.

Assumed Knowledge: EDUC1003 Learners and the Learning Process (10 units), EDUC1005 Professional Preparation 1A (10 units), EDUC1004 Contexts of Teaching 1 (10 units), EDUC1006 Professional Preparation 1B (10 units), EDUC2048 Professional Preparation and Experience 2A (10 units), EDUC2030 Teaching and Learning in English K-6 (10 units).

EDUC3001 Developmental Foundations of Early Childhood  
Unit Value: 10
Examines various theoretical perspectives on cognitive development from conception, through infancy, and early childhood to age eight. Focuses on theory and research relating to early brain development, intelligence and multiple intelligences, giftedness, concept development, learning, and play at particular stages of development and the implications for early childhood education. Students extend understandings of methods of studying development and skills in observing, interpreting and planning for cognitive development.

Contact hours: 3 hours per week
Assumed Knowledge: ECST231 Developmental Foundations of Early Childhood

EDUC3002 Children's Services and Social Policy  
Unit Value: 10
Examines historical, social, cultural and political perspectives which have influenced the development of early childhood services for children from birth to eight years. Students will be expected to demonstrate understanding of these influences on the current provision of early childhood services, and understanding of government policy and legislation as it relates to the establishment and maintenance of services.

Contact hours: 3 hours per week
Assumed Knowledge: ECST237

EDUC3003 Teaching and Learning in Drama 3A  
Unit Value: 10
Introduces students to the philosophy and practice of teaching Drama at Senior Secondary level. A focus will be assessment and planning for senior students.

Contact hours: 3 hours per week
Assumed Knowledge: ED2022 or equivalent course

EDUC3004 Teaching & Learning in TAS 3A  
Unit Value: 10
Develops in students the knowledge and skills to understand the role of computers in a wide range of educational contexts. To this will be added an understanding of the relationship between Computer Technology and the TAS syllabus documents. A critical knowledge of the practical and theoretical issues will be fostered in regard to how computer based technologies are utilised and integrated within Technology and Applied Studies education. In addition, students will be expected to gain a critical understanding of assessment and evaluation and acquire the skills to design, evaluate and produce appropriate assessment instruments and learning programs.

Contact hours: 3 hours per week
Assumed Knowledge: nil

EDUC3005 Design and Technology Studies 3  
Unit Value: 10
Explores how group involvement, research, assessment and critical analysis can be used as techniques to realise goals in Technology Education.

Contact hours: TBA
Assumed Knowledge: NA

EDUC3006 Professional Experience 2A (K-2)  
Unit Value: 5
Enables students to apply learnings from campus-based courses, and to analyse and reflect on campus about experiences with children aged from five to eight years in school settings. In addition, professional experience provides students with the opportunity to engage in new learning and to develop the teaching techniques, strategies and understandings that are best learnt in the workplace.

Contact hours: As required
Assumed Knowledge: It is desirable that students will have completed successfully all courses in the program at the 100 and 200 levels, and be undertaking Professional Experience 2A concurrently with EDTE331 Professional Preparation 3

EDUC3007 Professional Experience 2B (0-5)  
Unit Value: 5
Enables students to apply learnings from campus-based courses and to analyse and reflect on campus about experiences with children aged from birth to five years in early childhood services. In addition, professional experience provides students with the opportunity to engage in new learning and to develop the teaching techniques, strategies and understandings that are best learnt in the workplace.

Contact hours: As required
Assumed Knowledge: It is desirable that students will have completed successfully all courses in the program at the 100 and 200 levels, Professional Experience 2A and EDTE331 Professional Preparation 3.

EDUC3008 Early Childhood Language Education  
Unit Value: 10
Prepares students to support language and literacy in early childhood settings. Topics include reading/writing processes, culture and language, views of language, text types, writing conventions, programming and assessment, and teaching/learning strategies.

Contact hours: 3 hours per week
Assumed Knowledge: LING111

EDUC3010A EC Maths,Sci&Human Soc & it's Environment (Part A)  
Unit Value: 10
This course is Part A of a two-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: Nil

EDUC3010B EC Maths,Sci&Human Soc & it's Environment (Part B)  
Unit Value: 10
The course is Part B of a two-term sequence. Part A must also be completed to meet the requirements of the sequence.

Assumed Knowledge: Nil

EDUC3011 Teaching and Learning in English 3A  
Unit Value: 10
Develops skills in planning, communication, observation and lesson preparation for secondary English teaching.

Contact hours: 3 hours per week
Assumed Knowledge: EDEN221, 222 or equivalent courses

EDUC3012 Teaching and Learning in English 3  
Unit Value: 5
Presents units of work, programming, assessment for teaching English in years 7-12.

Assumed Knowledge: EDUC2016

EDUC3013 Teaching & Learning in LOTE 3A  
Unit Value: 10
Focuses on the assessment and evaluation of LOTE teaching and learning and the associated curriculum theory.

Contact hours: 3 hours per week
Assumed Knowledge: EDLA222

EDUC3014 Teaching and Learning in Mathematics 3A  
Unit Value: 10
Focuses on assessment strategies which can be used in mathematics classrooms. A range of assessment strategies will be studied, and the application of these approaches in the NSW 7-12 syllabus will be examined. The subject will also focus on programming strategies and how these may be implemented in the mathematics syllabus.

Contact hours: 3 hours per week
Assumed Knowledge: EDM0222 Teaching and Learning in Mathematics 2 or equivalent subject.

EDUC3015 Teaching & Learning in Music 3  
Unit Value: 10
Extends students’ knowledge of management and teaching strategies available for working with secondary elective music contexts. In order to meet the desirable attributes of a beginning teacher, all students should be able to apply the knowledge and understanding of learners and the learning process, teachers and the teaching process, and the social and cultural contexts of teaching and learning.

Contact hours: 3 hours per week
Assumed Knowledge: EDM0222
EDUC3016  Teaching & Learning Health & Physical Education 3
Unit Value: 10
Provides an understanding of the responsibilities and obligations associated with the profession of teaching. Develops in students a knowledge of the purpose, nature and uses of a wide range of assessment and measurement strategies in Physical Education and Health as well as an understanding of the relevance of on-going research.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC3017A  Practicum I (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be successfully completed to meet the requirements of the sequence.
EDPR301A and EDPR301B together require the student to undertake the equivalent of 20 days school-based experience in a K-6 setting. Where possible, students will be placed in pairs to facilitate collaborative learning and reflection. Practicum tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: Field experience and preparation meetings
Assumed Knowledge: EDTE111, 131, 132, EDPR251 and EDPR252.

EDUC3017B  Practicum I (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must also be successfully completed before undertaking Part B.
EDPR301A and EDPR301B together require the student to undertake the equivalent of 20 days school-based experience in a K-6 setting. Where possible, students will be placed in pairs to facilitate collaborative learning and reflection. Practicum tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: Field experience and preparation meetings
Assumed Knowledge: EDTE111, 131, 132, EDPR251 and EDPR252.

EDUC3019A  Teaching and Learning in Primary (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Designed for students to gain knowledge and understanding, skills and values and attitudes necessary for teaching the K-6 syllabi in HSIE, PDH/PE and Science & Technology.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC3019B  Teaching and Learning in Primary (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Designed for students to gain knowledge and understanding, skills and values and attitudes necessary for teaching the K-6 syllabi in HSIE, PDH/PE and Science & Technology.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC3020  Teaching and Learning in Science 3A
Unit Value: 10
Focus on assessment strategies which can be used in science classrooms. A range of assessment strategies will be studied, and the application of these approaches to the NSW 7-12 syllabus will be examined. The subject will also focus on programming strategies and how these may be implemented in the science syllabus.
Contact hours: 3 hours per week
Assumed Knowledge: EDSC222 Teaching and Learning in Science 2

EDUC3021  Practicum in Inclusive Settings A
Unit Value: 10
Designed to allow students to complete a practicum placement in their main specialisation, whilst at the same time completing some additional teaching tasks relating to students with special educational needs who are included in the regular class. Students will be placed within regular education classes identified as having students with special needs included.
Contact hours: 20 days field placement
Assumed Knowledge: Nil

EDUC3022  Teaching & Learning in Social Sciences 3A
Unit Value: 10
Provides students with the understanding, skills, processes and attitudes necessary to teach Social Science in schools.
Contact hours: 3 hours per week
Assumed Knowledge: EDSS221 and EDSS222.

EDUC3023  Professional Experience 2
Unit Value: 10
Program of approximately 20 days duration or equivalent undertaken in a school or relevant teaching placement.
Contact hours: 20 days field experience
Assumed Knowledge: EDSS201 Professional Experience 1 and relevant specialist teaching and learning subjects.

EDUC3024  Practicum 1
Unit Value: 10
Requires the student to undertake 20 days of school-based experience. Where possible, students will be placed in pairs to collaborate learning, teamwork and reflection. Practicum tasks will involve the student in observing, planning, teaching, assessing and evaluating.
Contact hours: 20 days field experience
Assumed Knowledge: The following subjects, or those of deemed equivalence, provide the assumed knowledge required to undertake EDTE302 Practicum 1: EDTE111, EDXX221, EDXX222.

EDUC3025  Practicum III
Unit Value: 10
Requires the student to undertake 20 days school based experience in the Design and Technology specialisation area. Practicum tasks will involve the student in observing, planning, implementing, assessing and evaluating for both long term and short term teaching and learning.
Contact hours: 20 days field experience
Assumed Knowledge: The following subjects or those of deemed equivalence, provide the assumed knowledge required to undertake EDTE305: EDTE205 and relevant TAS teaching and learning subjects.

EDUC3026  Special Education
Unit Value: 10
Introduces issues and practices relating to teachers’ integration and inclusion of students with special needs.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC3027  Australian Educational Contexts
Unit Value: 10
Provides an orientation to Australian educational contexts, particularly for international students. It involves orientation to services and programs for learners in educational settings across the life span.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC3029  Teaching & Learning Visual Arts 3A
Unit Value: 10
This subject has two components: curriculum development including assessment and evaluation; and an in-school practical teaching/observation fieldwork activity. It provides students with the opportunity to further develop their skills and knowledge for teaching Visual Arts in secondary schools.
Contact hours: 3 hours per week
Assumed Knowledge: EDVA 221 or equivalent subject

EDUC3142  Professional Experience - Inclusive settings
Unit Value: 10
Requires the student to undertake the equivalent of 20 days school-based experience in a K-6 setting. Practicum tasks will involve the student in observing, planning for class and individual needs, teaching, assessing and evaluating.
Assumed Knowledge: EDUC1003 Learners and the Learning Process (10 units), EDUC1005 Professional Preparation 1A (10 units), EDUC1006 Professional Preparation 1B (10 units), EDUC2048 Professional Preparation and Experience 2A (10 units), EDUC2049 Professional Preparation and Experience 2B (10 units), EDUC2030 Teaching and Learning in English K-6 (10 units), EDUC2031 Teaching and Learning in Maths K-6 (10 units), EDUC3026 Special Education (10 units)

EDUC3143  Professional Preparation 3
Unit Value: 5
Focuses on the particular professional preparation needs that apply to teachers in all sectors of the education system. The subject is built around aspects of multi-level teaching designed to address the diverse needs of all students in a classroom.
Contact hours: 2 hours per week
Assumed Knowledge: EDTE231 or equivalent subjects.

EDUC3143  Professional Preparation 3
Unit Value: 5
Focuses on the particular professional preparation needs that apply to teachers in all sectors of the education system. The subject is built around aspects of multi-level teaching designed to address the diverse needs of all students in a classroom.
Assumed Knowledge: EDTE131, EDTE132, EDTE231 or equivalent subjects.
EDUC3144 Teaching & Learning in PDHPE
Unit Value: 5
Develops an understanding of the rationale for PDHPE in the primary curriculum, and an understanding of the structure of the PDHPE K-6 Syllabus. It will also develop a knowledge of the theoretical content, strands of growth and development, interpersonal relationships, personal health choices and safe living.

Assumed Knowledge: BEHM201 Foundations in P/H/PE.

EDUC3145 Teaching and Learning in HSIE
Unit Value: 10
Develops an understanding of the skills, processes and outcomes necessary to teach the syllabus area of Human Society and Its Environment (HSIE) in the K-6 curriculum.

Assumed Knowledge: EDT311, EDT312, EDT2211, EDM291, EDM292, HST101, EDPR201, EDPR202

EDUC3146 Teaching & Learning in Social Science 3
Unit Value: 5
This subject is the third in a sequence designed to provide students with the understandings, knowledge and appreciation of skills, processes and outcomes necessary to teach Social Sciences in schools.

Assumed Knowledge: EDSS220, EDSS223

EDUC3147 Teaching & Learning in TAS 1
Unit Value: 5
Provides students with the opportunity to further develop skills and knowledge for teaching TAS in secondary schools. This course has two components: curriculum development and assessment and evaluation.

Contact hours: 2 hours per week

Assumed Knowledge: EDTD223

EDUC3148 Creative Arts for Early Childhood Education
Unit Value: 10
Designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music, drama and visual arts in the K-6 setting.

Assumed Knowledge: EDET111, EDET131 and EDET132

EDUC3149 Early Childhood Special Education 1
Unit Value: 5
Introduces students to the area of early intervention for students with special needs in early childhood settings.

Assumed Knowledge: Nil

EDUC3150 Science & Technology for Early Childhood Educators
Unit Value: 10
Provides students with an understanding of young children's development in relation to the learning of science and technology. Students plan, implement and evaluate appropriate learning experiences for young children in the areas of science and technology.

Assumed Knowledge: SCM203

EDUC3151 Early Childhood Curriculum Studies II
Unit Value: 10
Extends understandings of early childhood education by examining sociocultural, poststructural, political and systemic influences on curriculum in early childhood and school settings. Students engage in critical analysis and appraisal of historical and contemporary approaches to curriculum, with a particular focus on transition to school and the early years of school.

Assumed Knowledge: ECST237 EC Curriculum Studies I

ECST331 Developmental Foundations of Early Childhood I

ECST331 Developmental Foundations of EC II

EDUC3152 Teaching & Learning in Visual Arts 3
Unit Value: 5
Third in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach visual arts in senior schools. Focus will be on curriculum development, assessment and evaluation.

Assumed Knowledge: EDVA222

EDUC3153 Teaching and Learning in PDHPE 3
Unit Value: 5
Prepares students to teach PE/Health/PD at the secondary level. It will focus on research processes in Health and PE and Health and Performance testing primarily in the psychomotor domain.

Assumed Knowledge: EDPH201, EDPH221 or equivalent subjects.

EDUC3154 Teaching and Learning in Music 3
Unit Value: 5
Third in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music in schools.

Assumed Knowledge: EDMU220 AND EDMU223
EDUC4045 Early Childhood Internship
Unit Value: 20
Places final year students in a workplace setting for an extended period under the supervision of an experienced teacher. During their ten-week placement, students participate in all aspects of the setting, acting as a new inexperienced member of staff rather than as a student. As they develop new competencies and competence students accept increasing responsibility in all roles of the early childhood teacher profession. In addition, students participate in a campus-based preparation and support program. Prescribed sequence: Please refer to course outline.
Assumed Knowledge: Must have completed successfully 270 units towards the award BTeachBSocEd including Practicum 1 and Practicum 2.

EDUC4046 Early Childhood Special Education
Unit Value: 10
Develops understanding and skills for working in early childhood settings with children with special needs. The course satisfies the New South Wales Government’s requirement that a person seeking employment as a teacher in the NSW public education system must have completed a program containing special education content.
Assumed Knowledge: na

EDUC4047 Literacies Across the Early Childhood Curriculum
Unit Value: 10
Develops students’ understanding of the nature of literacy in early childhood contexts, strategies for developing children’s literacy and the use of computers for children’s learning, as well as for profiling, reporting and administration. Includes self-paced learning and laboratory sessions for students to develop and demonstrate personal literacy strategies.
Contact hours: 3 hours per week
Assumed Knowledge: na

EDUC4048 Personal Development, Health PE in Early Childhood
Unit Value: 10
Examines the stages in locomotion, manipulative skills and aquatic skills through physical education programs for children from birth to eight years. Students develop and interpret strategies for teaching personal development, health and physical education in early childhood and school settings.
Contact hours: 3 hours per week
Assumed Knowledge: BEHM202 Foundation Studies in Health and Physical Education

EDUC4049 Methods in Arts Ed for Early Childhood Educators
Unit Value: 10
Provides students with understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music, drama and visual arts in early childhood settings.
Contact hours: 3 hours per week
Assumed Knowledge: EDEC221

EDUC4050 Teaching and Learning in English 3B
Unit Value: 10
Provides students with the opportunity to develop the skills and understanding needed to teach English in the senior secondary school.
Contact hours: 3 hours per week
Assumed Knowledge: EDEN302, 222 or equivalent courses

EDUC4051 Teaching and Learning in LOTE 3B
Unit Value: 10
Provides an overview of integrating language and culture in school LOTE program. Specific LOTE approaches to assessment and evaluation will be focused upon. Current HSC LOTE tests will be discussed.
Contact hours: 3 hours per week
Assumed Knowledge: EDLA 302

EDUC4052 Teaching and Learning Mathematics 4
Unit Value: 10
Focuses on senior syllabi, planning, teaching, assessing and programming for senior secondary mathematics.
Contact hours: 3 hours per week
Assumed Knowledge: EDMA221, EDMA222, EDMA322 or equivalent subjects.

EDUC4053 Teaching and Learning in Music 4
Unit Value: 10
Provides students with the understanding, knowledge, and appreciation of skills, processes and outcomes necessary to teach music in schools.
Contact hours: 3 hours per week
Assumed Knowledge: EDMU221, EDMU222, EDMU323

EDUC4055 Practicum II
Unit Value: 10
Requires the student to undertake 20 days school-based experience in a K-6 setting or other approved teaching placement. Practicum tasks will involve the student in observing, planning, implementing, assessing and evaluating for both long and short term teaching and learning.
Contact hours: 20 days field experience
Assumed Knowledge: The following subjects, or those of deemed equivalence, provide the assumed knowledge for EDPR402 Internship: EDPR301, ETDE312, EDPR351

EDUC4056 Internship
Unit Value: 20
Requires the student to undertake 50 days school-based experience in a K-6 setting. The Intern will be responsible for half the colleague teacher’s teaching load. In addition Interns will be expected to interact within the school and its community and to undertake a research project in consultation with the school.
Contact hours: 50 days field experience
Assumed Knowledge: The following subjects, or those of deemed equivalence, provide the assumed knowledge for EDPR402 Internship: EDPR401. In addition, students undertaking the Internship must have successfully completed 270 credit points of the Bachelor of Teaching/ Bachelor of Arts (Primary) degree.

EDUC4057 Literacies Across the Primary Curriculum
Unit Value: 10
Builds upon previous studies of Primary Key Learning Areas. It is based on the notion that literacy is a socio-cultural phenomenon, an underlying principle of current research, syllabus documents and government policies. The subject explores what learning to be literate in our society means for teachers and their students. This subject focuses on two broad areas of learning: the students’ own competencies and their understandings of how to support children’s learning of a range of literacies: political, computer and visual literacies as well as oracy and print literacy for children with special needs.
Assumed Knowledge: EDPR251 - Teaching and Learning in English K-6 EDPR352 - Teaching and Learning in Primary

EDUC4058 Teaching & Learning Practical & Creative Arts K-6
Unit Value: 15
Designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music and visual arts in the K-6 setting.
Contact hours: 6 hours per week over 10 weeks
Assumed Knowledge: na

EDUC4059 Teaching and Learning in Science 3B
Unit Value: 10
Develops student knowledge of science laboratory management and organisation, equipment maintenance, safety procedures, chemical preparations, excursion organisation, research projects, environmental and other studies.
Contact hours: 3 hours per week
Assumed Knowledge: EDSC302

EDUC4060 Special Education Internship
Unit Value: 20
Requires the student to undertake 50 days of school based experience in two different special education settings. The Intern will be responsible for half the colleague teacher’s teaching load. In addition Interns will be expected to interact within the school and its community.
Assumed Knowledge: EDSE307 or EDSE407
In addition, students undertaking the Internship must have successfully completed 270 credit points of Bachelor of Teaching relevant discipline degree.

EDUC4061 Practicum in Inclusive Settings B
Unit Value: 10
Designed to allow students to complete a practicum placement in their main specialisation, whilst at the same time completing some additional teaching tasks relating to students with special educational needs who are included in the regular class. Students will be placed within regular education classes identified as having students with special needs included.
Contact hours: 20 days field placement
Assumed Knowledge: ETDE312

EDUC4062 Perspectives on Teaching in Special Education
Unit Value: 5
Develops knowledge of the issues that inform policies and practices in special education and the models of service provision that exist. Specifically, the subject develops: knowledge of current policies and the ethical issues underlying them; understanding of the issues relating to controversial approaches in the field; and knowledge of the principles underlying models of service provision.
Contact hours: 2 hours per week
Assumed Knowledge: Nil
EDUC4063  Planning for Teaching in Special Education
Unit Value: 10
Students will develop a knowledge and understanding of research based instructional design principles, planning and instructional approaches relevant to teaching students with special education needs. The specific objectives of the subject are that students will demonstrate: a knowledge of programming models; the ability to develop instructional approaches to meet specific learning needs; and the ability to develop programs at individual, group and class levels. The subject forms part of a cohort of subjects that students seeking an additional accreditation as a special education teacher are required to complete within their double degree program.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC4064  Supporting Literacy, Numeracy Communication Skills
Unit Value: 10
Develops an understanding of the literacy, numeracy and communication skills needs of students, and specific assessment and intervention approaches that can be implemented to meet those needs. Specifically, the subject will demonstrate: knowledge of literacy, numeracy and communication needs of students; ability to develop instructional approaches to meet those specific learning needs; ability to utilise computer literacy skills in programs; knowledge of resources and services available to support programs; ability to integrate literacies and communication skills across KLAs. The subject forms part of a group of subjects that students seeking an additional accreditation as a special education teacher are required to complete within their double degree program.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC4065  Supporting Behaviour Change
Unit Value: 10
Develops knowledge and understanding of the behavioural needs of students and intervention approaches that may be used to support behaviour change, as well as the consultancy and collaborative skills that are required in working with students, staff and parents in supporting change. Specifically, the subject will demonstrate: a knowledge of the contextual factors in identifying and assessing behaviour needs; an ability to conduct screening and assessment techniques that lead to informed intervention procedures; a knowledge of, and ability to implement, alternate intervention approaches; an ability to use collaborative and consultancy skills in working with students, staff and parents. The subject forms part of a group of subjects that students seeking an additional accreditation as a special education teacher are required to complete within their double degree program.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC4068  Independent Research Study
Unit Value: 15
Students conduct an independent research study under the supervision of an academic advisor.
Contact hours: By arrangement
Assumed Knowledge: nil

EDUC4069  Teaching & Learning in Social Sciences 3B
Unit Value: 10
Provides the beginning teacher with knowledge and understanding of the assessment procedures for the HSC courses in Human Society and Its Environment.
Contact hours: 3 hours per week
Assumed Knowledge: EDDS22

EDUC4070  Literacies Across the Secondary Curriculum
Unit Value: 10
The subject content falls into three distinct but inter-related areas, namely General Literacy (including numeracy, oracy, and critical thinking, in accordance with the Department of Education and Training’s current concept) Computer Literacy (in accordance with the recommendations of the Ministerial Advisory Committee on the Quality of Teaching, 1997) and Civic awareness.
Contact hours: 3 hours per week
Assumed Knowledge: Admission to fourth year of program.

EDUC4071  Practicum 2
Unit Value: 10
Requires the student to undertake 20 days school based experience or other approved teaching placement. Practicum tasks will involve the student in observing, planning, implementing, assessing and evaluating for both long term and short term teaching and learning.
Contact hours: 20 days field placement
Assumed Knowledge: The following subjects or those of deemed equivalence, provide the assumed knowledge for EDTE402: EDTE403

EDUC4072  Internship
Unit Value: 20
Requires the student to undertake 50 days of school based experience. The Intern will be responsible for half the colleague teacher’s teaching load. In addition Interns will be expected to interact within the school and its community.
Contact hours: 50 days field experience
Assumed Knowledge: The following subjects, or those of deemed equivalence provide the assumed knowledge for EDTE403: EDTE402 Practicum 2
Students undertaking the Internship must have successfully completed 270 credit points of Bachelor of Teaching/relevant discipline degree.

EDUC4074  Aboriginal Education
Unit Value: 5
Aims to increase students’ understanding of the particular cultural circumstances and needs of Aboriginal students in schools.
Contact hours: 2 hours per week
Assumed Knowledge: EDTE211

EDUC4075  Social & Cultural Contexts in Education 2
Unit Value: 5
Provides opportunities for students to develop knowledge at a greater depth in the areas of social and cultural contexts. The intent is to develop in students advanced understanding of specialised topics of contemporary educational significance.
Contact hours: TBA
Assumed Knowledge: EDTE211

EDUC4076  Learners and the Learning Process 2
Unit Value: 5
Provides opportunities for students to develop advanced knowledge of teachers’ work, responsibilities, and the policies that shape teachers’ work.
Contact hours: 3 hours per week
Assumed Knowledge: NA

EDUC4078  Teacher Research Project
Unit Value: 10
Provides the opportunity for students to undertake and report a small research project. This project is completed as part of their role as an intern/teacher in the school.
Contact hours: By arrangement
Assumed Knowledge: Nil

EDUC4080  Specialist studies A
Unit Value: 10
Provides a framework within which specialist teaching methods and curriculum content can be located for students requiring specialisation - specific curriculum content. The subject allows flexibility in identifying the detailed content to be taught for a particular cohort of students.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC4081  Specialist studies B
Unit Value: 10
Provides a framework within which specialist teaching methods and curriculum content can be located for students requiring specialisation-specific curriculum content. The subject allows flexibility in identifying the detailed content to be taught for a particular cohort of students.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC4082  Specialist Studies C
Unit Value: 10
Provides a framework within which specialist teaching methods and curriculum content can be located for students requiring specialisation-specific curriculum content. The subject allows flexibility in identifying the detailed content to be taught for a particular cohort of students.
Contact hours: 3 hours per week
Assumed Knowledge: No assumed knowledge is required for this subject.

EDUC4083  Specialist Studies D
Unit Value: 10
Provides a framework within which specialist teaching methods and curriculum content can be located for students requiring specialisation-curriculum content. The subject allows flexibility in identifying the detailed content to be taught for a particular cohort of students.
Contact hours: 3 hours per week
Assumed Knowledge: NA
EDUC4084  Specialist Studies E
Unit Value: 10
Provides a framework within which specialist teaching methods and curriculum content can be located for students requiring specialisation-specific curriculum content. The subject allows flexibility in identifying the detailed content to be taught for a particular cohort of students.
Contact hours: 3 hours per week
Assumed Knowledge: No assumed knowledge is required for this subject.

EDUC4085  Teaching & Learning Visual Arts 3B
Unit Value: 10
Designed to extend the professional skills of the pre-service teacher in the area of visual arts education and resource awareness in line with current syllabus and teaching practice. It will strengthen the communication and interpersonal skills of the student teacher and facilitate the use of team work and co-operation with the arts community, arts institutions and schools. Students will focus exclusively on the critical examination and interpretation of all aspects of the NSW Board of Studies HSC Visual Arts syllabus.
Assumed Knowledge: EDUC3029, EDUC2045, EDUC2044

EDUC4086  Teaching & Learning in Creative Arts
Unit Value: 10
Designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music and visual arts in the K-6 setting.

EDUC4087  Professional Preparation 4
Unit Value: 10
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting.
Assumed Knowledge: EDTE131, 231, 331 or equivalent subjects.

EDUC4088  Professional Preparation 4
Unit Value: 10
Focuses on the professional preparation needs of a beginning teacher.
Assumed Knowledge: EDTE131, EDTE231, EDTE331 or equivalent subjects.

EDUC4089  Contexts of Teaching 2
Unit Value: 5
Provides opportunities for students to develop knowledge at a greater depth in the area of social and cultural context. The intent is to develop students advanced understanding of specialised topics of contemporary educational significance.
Assumed Knowledge: EDTE121

EDUC4090  Teaching & Learning in English 4A
Unit Value: 10
Provides students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach English in secondary schools.
Assumed Knowledge: EDEN333

EDUC4091  Teaching & Learning in English 4B
Unit Value: 10
Provides students with the opportunity to develop the skills and understanding needed to teach English in the senior secondary school.
Assumed Knowledge: EDEN333

EDUC4092  Teaching & Learning in Social Science 4A
Unit Value: 10
Fourth in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach Social Sciences in secondary schools.
Assumed Knowledge: EDSS221, EDSS223, EDSS333

EDUC4093  Teaching and Learning in Social Science 4B
Unit Value: 10
Fifth in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach Social Sciences in schools.
Assumed Knowledge: EDSS221, EDSS223, EDSS333

EDUC4094  Teaching & Learning in TAS 2
Unit Value: 10
Designed to extend the professional skills of the pre-service teacher in the areas of curriculum and resource awareness in line with current syllabus and teaching practice in senior Technology and Applied Studies (TAS) subjects. Students will engage in the critical examination of current curriculum, resource evaluation and the production of educational resource materials. They will also be involved in a mentor program which enables them to work directly with a senior student to critically examine syllabus, its application to the classroom and related practical assessment issues.
Assumed Knowledge: EDDT333, EDDT223 and EDDT221.

EDUC4095  Teaching and Learning in TAS 3
Unit Value: 10
Provides an overview of technology education. It is designed to introduce students to the policy, practicalities and research which underpins technology education. The course will also examine the ways in which technology education can be used to support and extend student learning. Attention is given to the integration of theory and practice, and in particular, the application of research findings to computer usage in education.
Assumed Knowledge: EDDT221, EDDT223, EDDT333

EDUC4096  Professional Preparation 4
Unit Value: 5
Focuses on the particular professional preparation needs that apply to early childhood teachers. Built around a single ‘rich task’ that requires students to fulfill both individual and group responsibilities that are relevant to early childhood teachers’ work. The particular focus is challenges for the beginning professional.
Assumed Knowledge: EDEC311, EDTE331

EDUC4097  Early Childhood Special Education 2
Unit Value: 5
An introduction to issues and practices relating to integration and inclusion of students with special needs in schools.
Assumed Knowledge: EDEC313

EDUC4098  HSIE FOR EARLY CHILDHOOD EDUCATION
Unit Value: 10
Provides students with an understanding of young children’s development in relation to the learning of social education. Students plan, implement and evaluate appropriate learning experiences for young children in the area of social education.
Assumed Knowledge: HIST101

EDUC4099  Teaching & Learning in Visual Arts 4A
Unit Value: 10
Designed to extend the professional skills of the pre-service teacher in the area of visual arts education and resource awareness in line with current syllabus and teaching practice. It will strengthen the communication and interpersonal skills of the student teacher and facilitate the use of team work and co-operation with arts community, art institutions and schools. Students will focus exclusively on the critical examination and interpretation of all aspects of the NSW Board of Studies HSC Visual Arts syllabus.
Assumed Knowledge: EDVA221, EDVA223, EDVA333

EDUC4100  Teaching and Learning in Visual Arts 4B
Unit Value: 10
Depends the students’ understanding of the role of art in all forms and media, in contemporary and historical cultures and visual worlds, with specific reference to how popular culture informs current art practice. It provides for the acquisition of both practical and propositional knowledge, and it acknowledges the different sets of beliefs and values that condition understanding and practice. It further informs students of the role of visual arts in the whole school context, developing students’ physical and spiritual development.
Assumed Knowledge: EDVA221, EDVA223 and EDVA333.

EDUC4101  Teaching & Learning in PDHPE 4A
Unit Value: 10
Enables students to develop an understanding of post-compulsory PD/H/PE subjects offered in NSW schools. Students will understand the scope, content, teaching strategies, assessment, planning and resources required to effectively implement and teach PD/H/PE in year 11-12.
Assumed Knowledge: EDPH221, EDPH223 and EDPH333 or equivalent subjects.

EDUC4102  Teaching & Learning in PDHPE 4B
Unit Value: 10
Enables students to develop an understanding of the effective teaching foundations, curriculum development and how they relate to PD/H/PE. Students will undertake curriculum planning, analysis of problems, strategies and current issues that impact upon the PD/H/PE curriculum.
Assumed Knowledge: EDPH221,223,333,or equivalent subjects.

EDUC4103  Teaching and Learning in Music 4A
Unit Value: 10
Fourth in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music in schools.
Assumed Knowledge: EDEM220, EDMU223 and EDMU333

EDUC4104  Teaching and Learning in Music 4B
Unit Value: 10
Fifth in a sequence designed to provide students with the understanding, knowledge and appreciation of skills, processes and outcomes necessary to teach music in schools.
Assumed Knowledge: EDEM220, EDMU223 and EDMU333
EDUC4105  Teaching and Learning in Mathematics 4A
Unit Value: 10
Prepares students to teach mathematics at secondary level. It will focus on the following mandatory NSW syllabus requirements and their implementation in the classroom: literacy in mathematics and computing in mathematics.
Assumed Knowledge: EDM3333

EDUC4106  Teaching & Learning in Mathematics 4B
Unit Value: 10
Prepares students to teach mathematics at secondary level. It will focus on specific aspects of the NSW mathematics Stages 4-6 syllabus, with particular emphasis on contemporary policies, issues and standards in mathematics, both national and international, as they apply to the NSW secondary mathematics syllabuses. The subject will examine appropriate teaching and assessment strategies for the implementation of these syllabus innovations in the classroom.
Assumed Knowledge: EDM3333 Teaching and Learning in Mathematics 3

EDUC4107  Teaching & Learning in Science 4A
Unit Value: 10
Prepares students to teach science at secondary level. It will focus on the following mandatory NSW syllabus requirements and appropriate strategies for their implementation in the science classroom: literacy in science, and risk assessment in science.
Assumed Knowledge: EDS3333 Teaching and Learning in Science 3

EDUC4108  Teaching and Learning in Second Teaching Area
Unit Value: 10
Introduces students to syllabuses in Years 7-12 in their second teaching area, and provides an understanding of the pedagogy and classroom strategies related to this area.
The syllabus documents studied will vary depending on the student’s second teaching area.
Assumed Knowledge: 20 units Teaching & Learning courses in major area.

EDUC4109  Teaching and Learning in Science 4B
Unit Value: 10
Prepares students to teach science at secondary level. It will focus on specific aspects of the NSW Science Stages 4-6 syllabus, with particular emphasis on the implementation of the NSW Environment Education Policy Document and the Stages 4-6 student research projects. The subject will examine appropriate teaching and assessment strategies for the implementation of these syllabus components in the classroom.
Assumed Knowledge: EDS3333 Teaching and Learning in Science 3

EDUC4110  Internship
Unit Value: 20
Requires the student to undertake 50 days of school based experience. The Intern will be responsible for half the colleague teacher’s teaching load. In addition Interns will be expected to interact within the school and its community. Prescribed sequence: Please refer to the course outline.
Contact hours: 50 days field experience
Assumed Knowledge: The following subjects, or those of deemed equivalence provide the assumed knowledge for EDTE405. EDTE305 Practicum 3.
Students undertaking the Internship must have successfully completed 270 credit points of Bachelor of Education degree.

EDUC4950  EDUCATION HONOURS I
Unit Value: 20
The honours program comprises:
a) A thesis to be prepared from acceptable primary or secondary sources;
b) A coursework program to be arranged, in consultation with the Dean of the Faculty of Education.
Contact hours: 2 hours per week
Assumed Knowledge: Undergraduate degree with a major in Education

EDUC4970  EDUCATION HONOURS III
Unit Value: 20
The honours program comprises:
a) A thesis to be prepared from acceptable primary or secondary sources;
b) A program to be arranged, in consultation with the Dean of the Faculty of Education.
Contact hours: 2 hours per week
Assumed Knowledge: Undergraduate Degree with a Major in Education

EDUC4980  EDUCATION HONOURS IV
Unit Value: 20
The honours program comprises:
a) A thesis to be prepared from acceptable primary or secondary sources;
b) A program to be arranged, in consultation with the Dean of the Faculty of Education.
Contact hours: 2 hours per week
Assumed Knowledge: Undergraduate Degree with a Major in Education

ELEC1300  Electrical Engineering 1
Unit Value: 10
Provides students with an understanding and appreciation of techniques for analysing and designing simple dc and ac circuits for both power and communications applications. The subject approaches these objectives from the three perspectives of theory, computer simulation, and practical implementation.
Contact hours: 5 hours per week
Assumed Knowledge: none

ELEC1700  Computer Engineering 1
Unit Value: 10
Introduces the principles of computer and digital design. In particular, the fundamentals of modern digital logic design are presented, including logic gates, Boolean algebra, Karnaugh maps, flip-flops, and state-machines. At this time the binary number system, hexadecimal notation and computer arithmetic are introduced. This exploration of “low level” computing is complemented by an introduction to the basic elements of a modern computer, including motherboards and expansion slots, random access memory (RAM), read-only memory (ROM), floppy and hard disk drives, CD-ROM technology, and the basic functions of a microprocessor.
The subject is complemented by considering emerging technologies. Moore’s Law is examined to see how it will drive future technology. Throughout the subject, emphasis is given as to how modern computer technology is used in telecommunication networks, consumer electronics, the Internet, and other areas of social infrastructure.
Contact hours: 6 hours per week
Assumed Knowledge: NIL

ELEC1800  Introduction to Engineering Practice
Unit Value: 10
Introduces students to the scope and practice of professional engineering at the earliest opportunity in their degree studies. Account is given to the social context of engineering. It also provides a rationale and foundation for future subjects in engineering and engineering management through group projects involving problem-based learning.
Topics include engineering and society; role of professional engineer, ethics; engineering and science; role of management; project management; case studies; technical information sources; communication skills (written and oral). There is also an introduction to relevant engineering design tools and to the properties of materials. A significant group design project is undertaken.
Contact hours: 5 hours per week
Assumed Knowledge: nil

ELEC1900  Industrial Experience
Unit Value: 10
This subject is available to students employed full-time in the current calendar year in an appropriate technical position.
Assumed Knowledge: NIL

ELEC1910  Industrial Experience
Unit Value: 10
This course is available to students employed full-time in the current calendar year in an appropriate technical position.
Students must complete ELEC1900 before enrolling in ELEC1910.
Assumed Knowledge: NIL

ELEC1950  Industrial Experience
Unit Value: 5
Available to students employed full-time in the current calendar year in an appropriate technical position, who have not completed any of ELEC192, ELEC193, ELEC194 or ELEC195 in the current calendar year.
This subject is for transition purposes only.
Students who have completed ELEC192 only should enrol in ELEC195 to make an even number of credit points.
Assumed Knowledge: nil
ELEC2120  Sensors and Actuators
Unit Value:  10
Not to count for credit with the courses ELEC211, ELEC214 or ELEC215
Gives an introduction to a variety of electrical and mechanical sensors and actuators. Examples are studied from electromagnetic, mechanical, piezoelectric and optical sensors and actuators. This subject covers: electromagnetic (field theory, Transformers, Solenoids, DC and AC machines (including 3 phase machines), Inductive sensors, level, flow, temperature, position, strain, pressure, motion transducers, and virtual instrumentation.
Assumed Knowledge: ELEC1300

ELEC2200  Introduction to Electronics
Unit Value:  10
Introduces the physics of electronic devices and the design of discrete component electronic circuits. Topics include: crystal structure, Band theory of solids, semiconductor theory, single junction semiconductor physics, basic terminal characteristics of diodes, zener diodes, bipolar transistors, field effect transistors, single stage amplifiers (gain, input-output resistance), basic digital logic gates, TTL and CMOS inverters and/or gates.
This subject can not be counted with PHYS213.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC130, ELEC170 and (PHYS112 or PHYS114)

ELEC2320  Electrical Circuits
Unit Value:  10
This course is not to count for credit with the course ELEC231.
Fundamental concepts of Electrical Circuits are expounded. Builds on and expands the first year circuits topic. Content includes operational amplifiers, nodal and loop analysis, nonlinear circuits, per unit systems, balanced three phase systems, resonance and damping, CAD tools for circuit analysis, Transmission lines (lumped and distributed parameter models).
Assumed Knowledge: ELEC1300 and MATH1120

ELEC2400  Signals and Systems
Unit Value:  10
Introduces students to the analysis of signal flow and response in dynamic systems. Topics covered include: differential equation modelling, impulse response and convolution, Laplace transforms, stability, frequency response, Fourier transforms and shift operator models.
Not to count for credit with the subject PHYS201
Contact hours: 6 hours per week
Assumed Knowledge: MATH112

ELEC2500  Introduction to Telecommunications
Unit Value:  10
Provides an introduction to the telecommunications area. The objectives include: understanding of the technologies involved in modern telecommunications systems; familiarity of basic concepts of communications; hands-on practice of telecommunication equipment. Topics include: basic telephony, voice & data communication techniques, public switched telephone networks, traffic characteristics, coding, data networks, optical fibres, satellite communication and mobile telephony.
Not to count for credit with the subject ELEC531
Contact hours: 6 hours per week
Assumed Knowledge: ELEC130 and MATH111

ELEC2700  Computer Engineering 2
Unit Value:  10
Develops the principles and practice of digital systems engineering necessary in electrical and computer engineering.
The content is in two sections. The first covers digital design, including and introduction to the VHDL hardware description language. The second section covers microprocessor interfacing and assembly language programming.
Contact hours: 6 hours per week
Assumed Knowledge: ELEC170

ELEC2800  Project/Directed Reading
Unit Value:  10
The content is variable, and depends on the context in which the subject is to be taken. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor. Enrollment requires the permission of the relevant course co-ordinator.
Contact hours: By arrangement
Assumed Knowledge: nil

ELEC2810  Project/Directed Reading
Unit Value:  5
The content is variable, and depends on the context in which the subject is to be taken. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor. Enrollment requires the permission of the relevant course co-ordinator.
Contact hours: By arrangement
Assumed Knowledge: nil

ELEC3100  Electricity Utilization
Unit Value:  10
Analyses the performance of D.C., A.C. (single phase and polyphase) and synchronous machines in the context of their application. Equivalent circuits for these machines are developed, and their use in predicting starting and operational performance is developed. It also covers electrical power systems aspects including the structure and characteristics of power systems and relevant analytic techniques.
Not to count for credit with the subjects ELEC14 or ELEC12.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC212

ELEC3210  Instrumentation Electronics
Unit Value:  10
Deals with transistor amplifiers, frequency response, integrated electronics, differential amplifiers, operational amplifiers (op-amps), applications of op-amps, feedback amplifiers, stability issues, class A, AB and B amplifiers and non-linear analogue circuits, and the application of the above to sensor interfacing to computer equipment.
Contact hours: 6 hours per week
Assumed Knowledge: ELEC220 and ELEC232

ELEC3230  Switching Electronics
Unit Value:  10
Deals with switching issues in areas such as digital systems, switch mode power supplies, and high power converters and inverters. The digital systems section considers such diverse issues as digital transmission line, printed circuit design for digital systems, and high speed measurement techniques. The switch mode power supply section investigates the operation and design of the standard switching power supply topologies. Finally the section on converters and inverters considers the terminal characteristics of the power devices used, and then examines the operation of the standard topologies in a variety of applications.
Not to count for credit with the subjects ELEC315 or ELEC322.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC220 AND ELEC232

ELEC3400  Signal Processing
Unit Value:  10
Gives a thorough grounding in the implementation of measurement systems, automatic control systems, communications systems and data transfer networks using both analog and digital processing techniques.
Not to count for credit with the subject ELEC341.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC240, MATH242

ELEC3500  Telecommunications Networks
Unit Value:  10
Provides an introduction to the network principle techniques of designing, implementing, and analysing telecommunication networks which are instrumental technologies underlying many modern systems. Topics include: basic of voice, video and data communication, network topologies, architectures, protocols, Local Area Network (LAN), Wide Area Network (WAN), Internet Protocol (IP), Switching Techniques, Performance Analysis and Network Simulation.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC250

ELEC3520  Analog and Digital Communications
Unit Value:  10
Introduces amplitude modulation, both large carrier and suppressed carrier; angle modulation schemes and in particular, frequency modulation methods, both narrowband and wideband; pulse code modulation schemes; modelling of noise in communication systems, and the noise performance of amplitude, angle and pulse code modulated communication systems; baseband digital transmission - channel bandwidth, intersymbol interference, timing, synchronisation, detection; digital modulation - phase shift and quadrature shift keying, noise performance; and baseband noise performance (binary detection) - matched filters, bit error rates.
Contact hours: 5 hours per week
Assumed Knowledge: ELEC240, MATH242
ELEC3710 Microprocessor Systems
Unit Value: 10
There are two main components to this course.

(1) Assembly language programming - this section concentrates on 8086 assembly language. Low level I/O programming is emphasised. (2) Real-time operating systems - presents the general principles behind operating systems, with emphasis on real-time operating systems. Covers such issues as rate-monotonic protocol, priority inversion, priority ceiling protocol, internal structures of an operating system.

Contact hours: 5 hours per week
Assumed Knowledge: ELEC270

ELEC3720 Programmable Logic Design
Unit Value: 10
Introduces students to the principles and practices of digital logic design using programmable logic devices and CAD tools. Topics include programmable logic devices and structures, design tools, VHDL hardware description language, datapath design, control-unit design.

Contact hours: 5 hours per week
Assumed Knowledge: ELEC270

ELEC3800 Project/Directed Reading
Unit Value: 5
The content is variable, and depends on the context in which the subject is to be taken. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor.

Assumed Knowledge: nil

ELEC3810 Project/Directed Reading
Unit Value: 5
The content is variable, and depends on the context in which the subject is to be taken. It may involve laboratory, literature search or theoretical work in a private study context under the direction of an appointed supervisor.

Contact hours: By arrangement
Assumed Knowledge: nil

ELEC3830 Engineering and Project Management
Unit Value: 10
Introduces students to the essentials of management in the environment of professional engineering. Students are acquainted with the essentials of a broad range of topics chosen for their immediate relevance to the graduating engineer. Material to be covered includes management practice, project management, industrial relations, and the legal environment of engineering. Basic financial analysis methods are also covered.

Not to count for credit with the subjects ELEC382 or MECH482.

Contact hours: 5 hours per week
Assumed Knowledge: Second year of an engineering degree

ELEC3850 Introduction to Electrical Engineering Design
Unit Value: 10
To provide a vehicle where students are required to integrate & extend the knowledge gained through their studies.

The products would include a significant engineering component involving a range of disciplines including some or all of Electrical, Electronic, Communications, Computing, Software, signal processing, control, and mechanical systems.

Example projects might include: (i) An exercise bike with regeneration into the AC mains; (ii) A simplified multiuser wireless telephone system.

Contact hours: 2 hours per week
Assumed Knowledge: 2nd year of either Electrical, Computer or Telecommunications Engineering.

ELEC4100 Electrical Systems
Unit Value: 10
Addresses the operation and behaviour of electric power systems. Topics covered include: system behaviour, expansion studies, risk and contingency planning, transmission equipment and operation, fault studies and energy economics.

Not to count for credit with ELEC411, ELEC413 or ELEC414.

Contact hours: 6 hours per week
Assumed Knowledge: ELEC310

ELEC4210 Electronics Design
Unit Value: 10
Includes logic interfacing, noise, interference, shielding, grounding, active filters, switched capacitor filters, narrowband amplifiers, oscillators, modulators, phase locked loops. Approximately 50% of the subject is based on a small group project, where design, testing and construction of an electronic circuit is required.

Contact hours: 5 hours per week
Assumed Knowledge: ELEC321

ELEC4400 Automatic Control
Unit Value: 10
Overview of control engineering; Levels of control; Modelling for control (physical, time domain, frequency domain, control as an inverse problem; benefits of feedback; transient and steady-state behaviour, rise-time and steady-state error; settling time, overshoot and damping; steady-state error for step, ramp and acceleration inputs; stability of feedback systems using Routh-Hurwitz methods; root-locus and frequency domain methods; gain and phase margins; robustness issues; control of systems with time delays; three-term (PID) controllers and tuning using Ziegler-Nichols rules; lead-lag compensator design; nonideal factors (saturation and slew rate limits); cascade and feedforward control; introduction to digital control systems; programmable logic controllers (PLCs).

Contact hours: 6 hours per week
Assumed Knowledge: MATH203 AND (ELEC240 OR MECH235)

ELEC4410 Control Systems Design
Unit Value: 10
Examines design issues in control systems and integration of control systems with corporate and management policies. Emphasis is given to the assessment of control opportunities in the industrial context, the evaluation of cost benefit trade-offs, and total quality control issues.

Contact hours: 6 hours per week
Assumed Knowledge: ELEC440

ELEC4500 Advanced Telecommunications
Unit Value: 10
Not to count for credit with ELEC445 or ELEC455.

Topics include adaptive signal processing; adaptive filtering techniques; multirate signal processing; narrow and wide band communication channels; channel coding & equalisation techniques; digital speech, audio and speech processing techniques; digital mobile communication standards. GSM, IS-95, GPRS, CDPD, etc.

Assumed Knowledge: ELEC3400, ELEC3500, ELEC3520

ELEC4700 Advanced Computer Systems
Unit Value: 10
Introduces students to advanced concepts in computer architecture and design emphasizing quantitative methods for performance evaluation. Topics include performance measures and cost, instruction set architecture, pipelining, instruction-level parallelism, caches, I/O and buses, interconnection networks.

Contact hours: 5 hours per week
Assumed Knowledge: ELEC372

ELEC4710 Real-Time Systems
Unit Value: 10
Introduces students to concepts in real time, multi-tasking operating systems. Topics covered include tasks, multi-tasking, semaphores, critical sections, task management, operating system priorities, intertask communications, device drivers and file systems.

Not to count for credit with the subject ELEC460.

Contact hours: 5 hours per week
Assumed Knowledge: ELEC371

ELEC4800A Electrical Engineering Project - Part A
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Final Year Projects represent the culmination of study towards the Bachelor of Engineering degrees. Projects offer the opportunity to apply and extend material learned throughout the remainder of the course. Assessment is by means of a seminar presentation, development of a web site, submission of a thesis, and a public presentation of work undertaken.

In contrast to the majority of subjects studied elsewhere in the course, projects are undertaken individually or in small groups. This necessarily introduces the dimension of workload management into the program to enable completion of a large, relatively unstructured “assignment” over the course of the year.

The projects undertaken span a diverse range of topics, including theoretical, simulation and experimental studies, and vary from year to year. The emphasis is necessarily on facilitating student learning in technical, project management and presentation spheres.

Contact hours: 1 hour seminar per week, plus regular meeting with designated supervisor
Assumed Knowledge: 3rd year of Electrical Engineering degree
ELEC4890B  Telecommunications Engineering Project - Part B
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Final Year Projects represent the culmination of study towards the Bachelor of Engineering degrees. Projects offer the opportunity to apply and extend material learned throughout the remainder of the course. Assessment is by means of a seminar presentation, development of a web site, submission of a thesis, and a public presentation of work undertaken.
In contrast to the majority of subjects studied elsewhere in the course, projects are undertaken individually or in small groups. This necessarily introduces the dimension of workload management into the program to enable completion of a large, relatively unstructured "assignment" over the course of the year.
The projects undertaken span a diverse range of topics, including theoretical, simulation and experimental studies, and vary from year to year. The emphasis is necessarily on facilitating student learning in technical, project management and presentation spheres.
Assumed Knowledge: Nil
Contact hours: 1 hour seminar per week, plus regular meeting with designated supervisor.
Assumed Knowledge: 3rd year of a telecommunications engineering degree

ELEC4890A  Telecommunications Engineering Project - Part A
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Final Year Projects represent the culmination of study towards the Bachelor of Engineering degrees. Projects offer the opportunity to apply and extend material learned throughout the remainder of the course. Assessment is by means of a seminar presentation, development of a web site, submission of a thesis, and a public presentation of work undertaken.
In contrast to the majority of subjects studied elsewhere in the course, projects are undertaken individually or in small groups. This necessarily introduces the dimension of workload management into the program to enable completion of a large, relatively unstructured "assignment" over the course of the year.
The projects undertaken span a diverse range of topics, including theoretical, simulation and experimental studies, and vary from year to year. The emphasis is necessarily on facilitating student learning in technical, project management and presentation spheres.
Assumed Knowledge: Nil
Contact hours: 1 hour seminar per week, plus regular meeting with designated supervisor.
Assumed Knowledge: 3rd year of a telecommunications engineering degree

EMGT1040  Environmental Issues and their Management
Unit Value: 10
Not to count with EMGT101.
This subject traces the social and economic development of Australia through its Aboriginal history and European colonisation. The concepts of growth and development are critically evaluated and applied to the anthropogenic transformations of the natural environment, the disintegration of traditional Aboriginal society and the structural and cultural features of contemporary Australian society. The concepts of wilderness and natural heritage are also introduced to assist in the evaluation of those parts of nature and culture that are deemed worthy of preservation/conservation. The question of whether contemporary Australian society is suitably adapted or maladapted to ecological realities is central to this subject.
Assumed Knowledge: Nil

EMGT1020  Social Development and the Environment
Unit Value: 10
Not to count with SRM102.
This subject traces the social and economic development of Australia through its Aboriginal history and European colonisation. The concepts of growth and development are critically evaluated and applied to the anthropogenic transformations of the natural environment, the disintegration of traditional Aboriginal society and the structural and cultural features of contemporary Australian society. The concepts of wilderness and natural heritage are also introduced to assist in the evaluation of those parts of nature and culture that are deemed worthy of preservation/conservation. The question of whether contemporary Australian society is suitably adapted or maladapted to ecological realities is central to this subject.
Assumed Knowledge: Nil

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EMGT2010  Soils and Hydrology  
Unit Value: 10  
This subject provides an introduction to soil and water concepts in the context of a catchment or watershed ecosystem. Work involves an analysis of components of the hydrologic cycle with an emphasis on the applied nature of a number of hydrologic problems. The soil science component of the subject deals with laboratory and field methods of soil analysis. Profile description and soil identification are important and the relationship between soil, landuse and runoff management is explored in some detail.  
Contact hours: 2 lecture hours and 2 laboratory hours per week and 2 one-day field trips.  
Assumed Knowledge: GEOL101 or ENV104 and EMGT104.

EMGT2020  The Sustainable Society  
Unit Value: 10  
Provides an introduction to the public policy orientation known as "Ecologically Sustainable Development" (ESD). It examines the biophysical basis for human social life in relation to the thesis that there are limits to economic growth imposed by the finiteness of resources and the ability of natural sinks to absorb and recycle the wastes of human enterprise. Students are required to critically evaluate different perspectives on ESD where cultural, geographical, ethical, economic and political assumptions are made explicit. The ethical issues associated with ESD such as inter and intra generational equity, the precautionary principle, and the value of biodiversity are given particular emphasis. The subject includes an analysis of green political thought as part of the evaluation of how humans can achieve a sustainable society.  
Contact hours: 1 lecture hour and 1 tutorial hour per week and 8 hrs directed study per week.  
Assumed Knowledge: EMGT102 or GEOL102 are recommended.

EMGT2040  Ecology and Management of Australian Flora  
Unit Value: 10  
Not to count with EMGT2030.  
Explores the range and complexity of plant ecosystems and communities, focusing in particular on Australia's flora in terms of their morphology, systematics, reproductive ecology and evolution on the island continent. A number of prominent local plant families and communities will be examined in details. Threats, problems, utility and management associated with these ecological systems will be discussed.  
Assumed Knowledge: BIOL1110 and BIOL1120

EMGT2050  Australian Fauna  
Unit Value: 10  
Not to count with EMGT2030.  
Introduces students to the breadth of diversity of the Australian fauna and discusses the origins and significance of this diversity. Because of its long geological isolation Australia's fauna is rich and unique (endemic), with ancient and relict species and communities. The adaptations of the fauna to the diversity of habitats available and significant regions of biodiversity will be investigated. Co-evolution of the Australian flora and fauna is a recurring theme, with examples of seed dispersal, pollination and protection from predators.  
Contact hours: 2 lecture hours, 3 hours practical/fieldwork, 1 hour tutorial per week.  
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in BIOL101 and BIOL102. Students with a strong background in first year science subjects other than biology should have sufficient knowledge to successfully master the subject.

EMGT3030  Conservation Biology  
Unit Value: 10  
The principles of nature conservation and the paradigm of global biodiversity, comprise the core of this subject. The past and present impacts of developments upon Australian biota and ecosystems is examined and the implications for the management of natural systems and wildlife are analysed. The statutory requirements of Environmental Impact Statements (EIS) as applied to flora and fauna will be studied, as will the specific requirements of Fauna Impact Assessment (FIA). The biological processes that provide the theoretical basis for these acts will be studied by reference to case studies and ecological principles.  
Contact hours: 2 lecture hours/tutorials; 3 hours laboratory/field work  
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is based on prior learning in EMGT203 and BIOL207. Students with a strong background in second year science and environmental science subjects other than biology should have sufficient knowledge to successfully master the subject.

EMGT3070  Advanced Studies in Sustainability  
Unit Value: 10  
Focuses on the theory and application of one of the key concepts of environmental policy and practice and its evolution to a global environmental ethic. Topics include the history and contested nature of sustainable development (SD), complexity and sustainability, indicators of sustainability, consumption and sustainability, eco-design, eco-industrialism and specific case studies both in less and more developed countries.  
Contact hours: 2 hour lecture and 1 hour tutorial per week and a 1 day field trip  
Assumed Knowledge: EMGT202 and ENV203 are recommended.

EMGT3090A  Environmental Management Placement Study (Part A)  
Unit Value: 10  
Not to count with ENV303 or EMGT306.  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Because professional placement is with outside organisations, entry is restricted to 25 students chosen by merit.  
Students enter into an association with a co-operating host organisation where they develop further their expertise in management of environmental projects and issues. Students will complete a specific project for the placement organisation and submit a major report for University examination and subject credit.  
Assumed Knowledge: For students to derive maximum value from this subject and to ensure that the host organisations derive substantive benefits as well, it is essential that students have a satisfactory knowledge and skills base prior to placement. Students therefore should have completed all prescribed level 200 core and elective subjects for their Environmental Management major prior to placement.

EMGT3090B  Environmental Management Placement Study (Part B)  
Unit Value: 10  
Not to count with ENV303 or EMGT306.  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Because professional placement is with outside organisations, entry is restricted to 25 students chosen by merit.  
Students enter into an association with a co-operating host organisation where they develop further their expertise in management of environmental projects and issues. Students will complete a specific project for the placement organisation and submit a major report for University examination and subject credit.  
Assumed Knowledge: For students to derive maximum value from this subject and to ensure that the host organisations derive substantive benefits as well, it is essential that students have a satisfactory knowledge and skills base prior to placement. Students therefore should have completed all prescribed level 200 core and elective subjects for their Environmental Management major prior to placement.

EMGT3100  Environmental Remediation  
Unit Value: 10  
Develops an understanding of remediation technologies and their application to environmental problems. The subject uses both theoretical and practical approaches as well as case studies from Australia and the Asia-Pacific region to understand the issues relating to the remediation of mining, agricultural and industrial landscapes and to urban waste management. Issues relating to the management and remediation of mining landscapes, agricultural landscapes and industrial landscapes are studied along with issues related to the management of urban waste include chemical and biological aspects of water pollution and the treatment and disposal of wastewaters and sludges. Remediation and treatment technologies are assessed in detail.  
Contact hours: 4 hours per week consisting of lectures and practicals; also a two-day field trip  
Assumed Knowledge: Knowledge, skills and understandings gained from GEOG204, GEOG209, GEOG310 or ENV203, EMGT301.
Assumed Knowledge: demonstrates a student's capacity for effective data collection (usually through thesis under close supervision of an academic staff member. A high quality thesis demonstrates a student's capacity for effective data collection (usually through fieldwork), processing, analysis and interpretation, and for high quality presentation of results.

Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average.

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Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average.

The Honours Program in Environmental Management produces students of the highest standing for securing future research and other career pathways. The subject (along with EMGT411, EMGT412 and EMGT422) forms part of the Honours Program which occupies two semesters and is designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literatures; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques.

Students undertake weekly classes during semester one involving discussions of theoretical and applied directions in geography and environmental science, student-based presentations of key issues and training workshops in computing skills, on-line bibliographic searches, statistical analysis, writing techniques, and cartography.

During the second semester, students work on the production of an original research thesis under close supervision of an academic staff member. A high quality thesis demonstrates a student’s capacity for effective data collection (usually through fieldwork), processing, analysis and interpretation, and for high quality presentation of results.

ENGL1020 The Age of Shakespeare
Unit Value: 10
An introduction to literary study at the university level, through close attention to selected works in poetry and drama by Shakespeare and his contemporaries. Approaches are by genre (for example, comedy, tragedy, and the love-sonnet), and by familiar topics and cultural preoccupations (for example, unrequited love, unruly women, a distant God, and life at court) as well as by writer. The aim is to explore a period close to the centre of the literary canon and to provide a repertoire of literary examples and of scholarly and critical techniques useful for subsequent study in English.
Contact hours: 2 hours per week
Assumed Knowledge: None.

ENGL1030 The Romantic Age
Unit Value: 10
Introduces students to the poetry and prose of the Romantic period, surveying texts published between 1789 and 1847. While the fiction begins with the social realist satire of Jane Austen, attention is also paid to the Gothic novel with its explorations of aberrant psychology. The poetry ranges from Blake’s miniature but radical lyrics to Keats’s erotic romances.
Contact hours: 2 hours per week
Assumed Knowledge: None.

ENGL1040 Australian Literature: Narratives of Identity
Unit Value: 10
Introduces students to Australian cultural studies through a selection of narratives in prose, drama, film, and song. Particular attention is paid to constructions and critiques of Australian identity.
Contact hours: 2 hours per week
Assumed Knowledge: None.

ENGL1070 Representing the Child
Unit Value: 10
Through a range of key texts the course will address the production of childhood; children’s literature and ideology, including gender, class and ethnicity; children’s literature and literary theory; and children’s literature and literary form.
Contact hours: 2 hours per week
Assumed Knowledge: none
ENGL2200 Creative Writing: Beginnings
Unit Value: 10
This is a course in imaginative writing, with an emphasis on the first steps to be taken when composing an original work. Students are required to study and practise the skills involved in writing prose, dramatic dialogue and/or poetry, with the opportunity to develop one or more of these modes. The course will be taught in the form of a weekly 2-hour workshop, in which students present their writing for guided discussion. Assessment is based on a portfolio of work.
Contact hours: 2 hours per week
Assumed Knowledge: 20 units English or 20 units Communications courses, or equivalent.

ENGL2210 Creative Writing: Development
Unit Value: 10
This is a course in imaginative writing, with a focus on developing the body of a creative work. Students are required to study and practise the skills involved in writing prose, dramatic dialogue and poetry, with the opportunity to specialise in one or more of these modes. The course will be taught in the form of a weekly 2-hour workshop, in which students present their writing for guided discussion. Assessment is based on a portfolio of work.
Contact hours: 2 hours per week
Assumed Knowledge: 20 units English courses or 20 units Communications courses, or equivalent.

ENGL3010 Canadian and Australian Literature
Unit Value: 10
This is a course in the study of Canadian and Australian literature. Students are required to study and practise the skills involved in reading and writing. The course will be taught in the form of a weekly 2-hour workshop, in which students present their writing for guided discussion. Assessment is based on a portfolio of work.

Assumed Knowledge:
20 units English or 20 units Communications courses.

ENGL3020 Renaissance Drama
Unit Value: 10
Studies tragedies by major playwrights of the English Renaissance, including Shakespeare, incorporating consideration of the genre and history of tragedy.
Assumed Knowledge: 20 units Introductory (100) level English courses.

ENGL3140 Eighteenth-Century Fiction
Unit Value: 10
Examines the general question of what is meant by “character” in fiction, and more specifically what “character” means in eighteenth-century fiction, with particular emphasis on the varying representations of the heroine and the systems of belief that support them. By focusing on an assortment of heroines, ranging from the virtuous, demure, and retiring woman to the feisty, independent, “difficult” woman, the subject will explore the ways in which fictional representation relates to differing notions of self and identity.
Assumed Knowledge: 20 cps Introductory (100) level English subjects.

ENGL3200 Advanced Creative Writing: Large Structures
Unit Value: 10
This is an advanced course in imaginative writing. Students are required to study and practise the skills involved in writing a substantial work or linked series of works in either prose, dramatic dialogue or poetry. Students are also required to read contemporary authors to learn technique, and to set their own writing in a literary context.
Contact hours: 2 hours per week
Assumed Knowledge: 20 units of Creative Writing at 200 level, comprising ENGL220 and ENGL221.

ENGL3210 Advanced Creative Writing: Endings
Unit Value: 10
This is an advanced course in imaginative writing. Students are required to study and practise the skills involved in writing a substantial work or linked series of works in either prose, dramatic dialogue or poetry, with an emphasis on conclusions. Students are also required to read contemporary authors to learn technique, and to set their own writing in a literary context.
Contact hours: 2 hours per week
Assumed Knowledge: 20 units of Creative Writing at 200 level, comprising ENGL220 and ENGL221.

ENGL3460 Contemporary Australian Literature
Unit Value: 10
Examines recent writing of fiction in Australia from 1990 to the present. It covers a range of genres, including novel, short story, autobiography and metafiction, and explores the tension between postmodernism and politics in the field through an examination of the discourses of gender, class, race and sexuality in each text.
Contact hours: 2 hours per week
Assumed Knowledge: 20 units of 100-level English courses

ENGL3490 Criticism and Interpretation
Unit Value: 10
A survey of mainstreams in the history of literary criticism, from classical poetics to contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (1000) level English courses

ENGL3640 Law and Literature
Unit Value: 10
Examines the representation of law, particularly property law, in literature. Selected readings from legal documents, such as judicial opinions, are included to address the relevance of historically and culturally specific information to literary methods of reading and interpretation.
Assumed Knowledge: 20 units of English courses at 1000 level.

ENGL3700 Novel Into Film
Unit Value: 10
Examines the aesthetics of adaptation, closely studying a small selection of films alongside the novels on which they are based.
Assumed Knowledge: Assumed knowledge for ENGL370 is 20 credit points of English or Film Studies at the 100 level.

ENGL3710 Australian Women’s Writing
Unit Value: 20
Examines Australian women’s writing in the nineteenth and twentieth centuries, studying the relationship between text and culture through an analysis of the conflicting discourses of gender, race, and class.
Assumed Knowledge: Assumed knowledge for ENGL371 is 20 credit points of English at the 100 level.

ENGL3730 Poetry in Action
Unit Value: 10
Examines contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (100) level English subjects.

ENGL3790 Poetry in Action
Unit Value: 10
Examines contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (100) level English subjects.

ENGL3790 Poetry in Action
Unit Value: 10
Examines contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (100) level English subjects.

ENGL3790 Poetry in Action
Unit Value: 10
Examines contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (100) level English subjects.

ENGL3790 Poetry in Action
Unit Value: 10
Examines contemporary literary theory. It explores both criticism (general statements about the literary art as a whole, in their internal features as well as in their external relationships) and interpretation (the application of these statements to the understanding of specific works of literature).
Assumed Knowledge: 20 units Introductory (100) level English subjects.
ENGL4070 English Honours I
Unit Value: 20
ENGL407, ENGL408, ENGL409, and ENGL410 must be studied concurrently and
together constitute the honours program in English. This course is designed to allow
students to explore some of the key areas of theoretical debate within the discipline,
and to relate these to the activity of textual interpretation. The honours program
comprises a combination of seminar work, and supervised research.

Internal mode of delivery.
Assumed Knowledge: Entry to the honours program in English requires a B.A.
pass or equivalent.

ENGL4080 English Honours II
Unit Value: 20
ENGL407, ENGL408, ENGL409, and ENGL410 must be studied concurrently and
together constitute the honours program in English. The subject is designed to allow
students to explore some of the key areas of theoretical debate within the discipline,
and to relate these to the activity of textual interpretation.
Contact hours: 2 seminar hours per week and regular meetings with long-essay
supervisor.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENGL4090 English Honours III
Unit Value: 20
ENGL407, ENGL408, ENGL409, and ENGL410 must be studied concurrently and
together constitute the honours program in English. The subject is designed to allow
students to explore some of the key areas of theoretical debate within the discipline,
and to relate these to the activity of textual interpretation.
Contact hours: 2 seminar hours per week and regular meetings with long-essay
supervisor.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENGL4100 English Honours IV
Unit Value: 20
ENGL407, ENGL408, ENGL409, and ENGL410 must be studied concurrently and
together constitute the honours program in English. The subject is designed to allow
students to explore some of the key areas of theoretical debate within the discipline,
and to relate these to the activity of textual interpretation.
Contact hours: 2 seminar hours per week and regular meetings with long-essay
supervisor.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENVS1020 Environmental Values and Ethics
Unit Value: 10
The subject introduces students to the ideological causes of environmental destruc-
tion (despotism) and responses to them in the form of late twentieth century
environmental philosophies such as Stewardship, Native Ecology, Animal Liberation,
The Land Ethic, Deep Ecology, Ecofeminism, Social Ecology and the Gaia Hypoth-
esis. The examination of ‘environmental’ values and ethics is linked to a critical
evaluation of contemporary social values and the idea of an ecologically sustainable
society. The application of contemporary ethics to professional practice, experimenta-
tion and social action is critically considered. The subject is delivered in lecture and
tutorial formats.
Contact hours: 1 lecture hour and 1 tutorial hour per week and 8 hrs per week
directed study.
Assumed Knowledge: NA

ENVS1040 Methods in Environmental Science & Management
Unit Value: 10
Not to count with ENV103.
This subject introduces students to the basic field, laboratory, computer, statistical,
library, report construction and writing skills required for a qualified environmental
scientist. A highly practical approach will be taken. Projects will be introduced to
incorporate all of these skills in a holistic package, providing an understanding of the
range of methodologies needed by the environmental scientist. Computing spreadsheet
and basic statistics form an important component. Structured and unstructured problem
solving will introduce students to a variety of approaches, both for individual and
group assessment.
Contact hours: 1 hours lecture, 2 hours tutorial, and 2 hours laboratory per
week and one-day field trip.
Assumed Knowledge: None

ENVS2010 Environmental Legislation and Planning
Unit Value: 10
Examines the basis for environmental law in Australia and concentrates on the current
NSW environmental planning and pollution control system. The emphasis is to
understand the system which regulates and controls development and the environmen-
tal impacts required for different types of development and introduces environmental impact
assessment, the systematic process to achieve a greater understanding of the
environmental consequences of proposals. A number of case studies are also examined
in this subject to illustrate the requirements of the various types of environmental
assessment in a way that simulates the role of the professional practitioner.
Contact hours: 2 lecture hours and 1 tutorial hour per week.
Assumed Knowledge: There is no assumed knowledge for this subject.

ENVS2030 Environmental Sampling & Data Analysis
Unit Value: 10
Not to count with GEOG209.
Emphasises the scientific methodology involved in the collection of data, experimental
design and data analysis as it applies to environmental monitoring. Topics will
include the theory and practice of monitoring, the biological and ecological basis of
monitoring, biological indicators and environmental and biotic indices. The statistical
component of the course covers topics such as sampling procedures, simulation and
modeling, tests of comparisons, and the validity and reliability of monitoring.
Statistical interpretation will involve the use of computers and statistical packages
suitable for differing situations, including analysis of spatial information involved in
the theory and practice of Geographic Information Systems.
Contact hours: 2 lecture hours, 3 hours practical, 1 hour tutorial per week.
Assumed Knowledge: The knowledge considered desirable to facilitate
success in the subject is based on prior learning in ENV103 and EMGT102.

ENVS2040 Energy and the Environment
Unit Value: 10
Considers the scientific concepts relevant to energy and energy resources, including
aspects such as thermal, nuclear, solar and wind power generation, atmospheric
pollution, coal mining, and nuclear waste disposal.
Contact hours: 2 lecture hours and 1 tutorial hour per week, and 18 laboratory/
field trip hours.
Assumed Knowledge: Level 100 science, including ENV102 and ENV103.

ENVS2140 Outback Diversity
Unit Value: 10
This course is entirely field-based and in 18 days students travel from the blue water
coast, over the Ranges and plains into the arid heart of Australia. On the way students
learn and apply techniques to describe and understand the biophysical and human
processes that drive diversity in Australian landscapes. Students are trained in
biodiversity surveys of plants and animals, geomorphology and social research
methods. Students develop problem solving techniques as they examine patterns and
processes of regional development and develop plans for their sustainable manage-
ment. This gives students an exciting holistic education on the interface between
human settlement and the environment.
Please note that places are strictly limited due to transport and accommodation
requirements.
Assumed Knowledge: Students are expected to have basic proficiency in
observation, data collection, analysis and communication skills.

ENVS2620 Biosciences for EOSH
Unit Value: 10
Introduces to the student the basic components of biological systems and provides a
background knowledge of human physiology and anatomy in relation to environmen-
tal and occupational health. Topics include animal cell structure, micro-organisms and
biochemistry, major body systems, defense mechanisms and reproduction.
Assumed Knowledge: Nil.

ENVS3010 Integrated Environmental Impact Assessment
Unit Value: 10
This subject is designed to introduce students to environmental impact assessment
and to provide theoretical and practical education in this field. Focus is on the
rationale and methodology of integrated environmental impact assessment (EIA)
including consideration of the relevant bio-physical, social, cultural, economic and
human health aspects of development proposals, programs and policies. Included are
aspects of tendering for and budgeting of EIA projects. Workshop and case studies
will illustrate aspects of EIA in practice.
Contact hours: 2 lecture hours per week and a 3-day workshop over one
weekend.
Assumed Knowledge: ENV201, ENV203, ENV204, BIOL207
This page contains information about various courses offered in the academic year 2002. The courses include academic language skills, epidemiology, and film studies. Each course is described with its unit value, contact hours, assumed knowledge, and a brief description of the course content. The courses are designed for different levels of study, ranging from introductory to advanced. The text also highlights the importance of knowledge in spoken and written English, as well as cultural and historical understanding in the context of film studies.

The document is a guide to undergraduate programs, indicating that it is part of a larger student handbook or catalog. The layout is consistent with typical university course catalogs, providing a structured overview of the academic offerings, their requirements, and potential career paths.

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**FILM1010 Introduction to Film Studies**
- **Unit Value:** 10
- Introduces students to film analysis, examining the basic components of film form (narrative, mise-en-scene, cinematography, editing, sound), the processes of production and reception, and the concepts of authorship and genre.
- **Contact hours:** 2 hours per week plus film screening
- **Assumed Knowledge:** NA

**FILM1020 Introduction to Film History**
- **Unit Value:** 10
- Surveys the history of film from its origins to the present, through the close examination of films representative of particular movements, periods, and national cinemas.
- **Contact hours:** 2 hours per week, plus film screening
- **Assumed Knowledge:** None.

**FILM3020 The Australian Cinema**
- **Unit Value:** 10
- Examines the politics of representation - the way in which film as a fictional construct and an industrial product mediates collective memory and Australian identity. It will consider issues such as cultural difference and the effects of globalisation on the imagining and imaging of a 'national' community.
- **Contact hours:** 2 hour seminar per week, plus film screenings
- **Assumed Knowledge:** Students are expected to have completed 20 units of Film at 100 level.

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**ESLA1010 Academic Language Skills for International Students**
- **Unit Value:** 10
- Designed for international students who are native speakers of languages other than English. The course focuses on the further development of students' academic English skills in writing, speaking, listening and reading. Lectures, tutorials and some videos are presented on an appropriate range of topics and will help students to develop a high language proficiency that will be of benefit to them at all levels of their University studies. During both lectures and tutorials, students will be encouraged to participate actively in order to practise their increasing spoken-language skills. Problem-based learning, discussions and individual talks presented in class will help students efficiently to absorb the material that is being taught.
- **Assumed Knowledge:** International and exchange students should have a sound knowledge of basic written and spoken English as an adequate foundation for developing proficiency in the academic uses of the language.

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**EPID4010A Epidemiology (Part A)**
- **Unit Value:** 10
- This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
- Introduces the basic concepts of epidemiology, the study of the distribution and determinants of disease in specific populations, and the application of this knowledge to the evaluation and control of health problems in the community.
- **Contact hours:** 2 hours per week
- **Assumed Knowledge:** three year approved degree program

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**EPID4010B Epidemiology (Part B)**
- **Unit Value:** 10
- This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
- Introduces the basic concepts of epidemiology, the study of the distribution and determinants of disease in specific populations, and the application of this knowledge to the evaluation and control of health problems in the community.
- **Contact hours:** 2 hours per week
- **Assumed Knowledge:** three year approved degree program

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**FILM3050 Women and Film**
- **Unit Value:** 10
- Examines representations of femininity in mainstream and avant-garde films. The course will pay particular attention to questions of gender, race, class and national identity as they impact on strategies and conventions of filmic representation.
- **Assumed Knowledge:** As all films shown will have English subtitles, no knowledge of the German language is necessary. No previous knowledge of European history, geography, society or economics is assumed.

**FILM3091 German Film Classics: Caligari & Co.**
- **Unit Value:** 10
- Develops students' knowledge of German culture and society through the examination of German language film from its beginnings to the end of the Second World War.
- **Assumed Knowledge:** As all films shown will have English subtitles, no knowledge of the German language is necessary. No previous knowledge of European history, geography, society or economics is assumed.

**FILM3092 Berlin: Metropolis of Film**
- **Unit Value:** 10
- The course will develop students' knowledge of the impact of the modern metropolis on German culture and society through the examination of German language film produced in and about Berlin. Internal mode of delivery: 3.5 contact hours per week
- **Assumed Knowledge:** As all films shown will have English subtitles, no knowledge of the German language is necessary. No previous knowledge of European history, geography, society or economics is assumed.

**FILM3093 New German Film 1: Issues of the Individual**
- **Unit Value:** 10
- Develops students' knowledge of German history, culture and society through the examination of German language film from the 1960's to the present, with particular emphasis on the last twenty years. The course will cover such themes as: confronting German history, East-West German relations, German-American cross-fertilisation, Central European views of Australia and the future of German cinema.
- **Assumed Knowledge:** As all films shown will have English subtitles, no knowledge of the German language is necessary. No previous knowledge of European history, geography, society or economics is assumed.

**FILM3094 New German Film 2: Issues of the Nation**
- **Unit Value:** 10
- Develops students' knowledge of German history, culture and society through the examination of German film from the 1960's to the present, with particular emphasis on the last twenty years. The course will cover such themes as: confronting German history, East-West German relations, German-American cross-fertilisation, Central European views of Australia and the future of German cinema.
- **Assumed Knowledge:** As all films shown will have English subtitles, no knowledge of the German language is necessary. No previous knowledge of European history, geography, society or economics is assumed.

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**FILM3030 Authorship in the Cinema**
- **Unit Value:** 10
- Provides an examination of the concept of directorial authorship from a range of different theoretical and historical perspectives. The emphasis will be on specific film directors, a number of whose films will be studied in detail to analyse the auteur function within them. The first half of the course focuses on Jean-Luc Godard and Fritz Lang as examples of contrasting versions of authorship. The second half pursues a cultural, historical and intertextual approach to authorship, through an examination of the films of Sergio Leone and Tsui Hark.
- The course is taught in the form of a weekly two-hour seminar.
- **Assumed Knowledge:** 20 units of 1000-level FILM courses.
FILM3120  Children’s Cinema
Unit Value:  10
Covers various thematic and aesthetic shifts in children’s cinema, including an examination of the phenomenon of the child star, the persistence in films of features of the fairytale such as the grotesque, and the manner in which some films appear to project the child’s imagination whilst others are vehicles for the adult to project adult fantasies onto the child’s world.
Assumed Knowledge: Assumed knowledge for FILM312 is 20 credit points of Film Studies at the 100 level.

FILM3170  Science Fiction Film
Unit Value:  10
Presents an overview of the science fiction film genre from its origins to the present day. The emphasis will be on American science fiction films, although several important films from other countries will also be screened.
Assumed Knowledge: Assumed knowledge for FILM317 is 20 credit points of Film Studies at the 100 level.

FILM3190  Asian Cinema
Unit Value:  10
Provides an overview of recent trends in Asian cinema, focusing chiefly on the major industries of India, Japan, and China (covering Hong Kong and Taiwan as well as Mainland China), but also including Southeast Asian films. The emphasis will be on cinematic traditions and innovations and their relationship to local cultural paradigms and transcultural interaction.
Contact hours: 2 hour seminar plus 2 hour film screening per week
Assumed Knowledge: 20 credit points of Film subjects at 100 level.

FILM3210  Animation Studies: Coming to Life
Unit Value:  10
Provides an historical overview of the development of animation as a mode of the moving image. The main emphasis will be on animation in the cinema, although the impact of televised cartoons and interactive animations (computer games, virtual reality) will also be considered. The course will deal with commercial and avant garde forms of animation, particularly in their European and American incarnations.
Assumed Knowledge: 20 units of FILM courses at 1000 level

FILM4010  Film Honours
Unit Value:  20
FILM401, FILM402, FILM403 and FILM404 must be studied concurrently and together constitute the honours program in Film Studies. The course is designed to allow students to explore some of the key areas of theoretical, historical, and analytical debate within the discipline, and to relate these to the activity of textual interpretation. The honours program comprises a combination of seminar work, and supervised research.
Internal mode of delivery.
Assumed Knowledge: Entry to the honours program in Film Studies requires a B.A. pass or equivalent.

FILM4020  Film Honours II
Unit Value:  20
FILM401, FILM402, FILM403 and FILM404 must be studied concurrently and together constitute the honours program in Film Studies. The course is designed to allow students to explore some of the key areas of theoretical, historical, and analytical debate within the discipline, and to relate these to the activity of textual interpretation. The honours program comprises a combination of seminar work, and supervised research.
Internal mode of delivery.
Assumed Knowledge: Entry to the honours program in Film Studies requires a B.A. pass or equivalent.

FILM4030  Film Studies Honours III
Unit Value:  20
FILM401, FILM402, FILM403 and FILM404 must be studied concurrently and together constitute the honours program in Film Studies. The course is designed to allow students to explore some of the key areas of theoretical, historical, and analytical debate within the discipline, and to relate these to the activity of textual interpretation.
Assumed Knowledge: Entry to the honours program in Film Studies requires a Bachelor of Arts pass or equivalent.

FILM4040  Film Studies Honours IV
Unit Value:  20
FILM401, FILM402, FILM403 and FILM404 must be studied concurrently and together constitute the honours program in Film Studies. The course is designed to allow students to explore some of the key areas of theoretical, historical, and analytical debate within the discipline, and to relate these to the activity of textual interpretation.
Assumed Knowledge: Entry to the honours program in Film Studies requires a Bachelor of Arts pass or equivalent.

FOOD2010  Grain Food Science and Technology
Unit Value:  10
Considers the structure and operation of the Australian grain and related industries, taking in the composition of cereals, pulses and oilseeds and their processing into food products and ingredients. Other topics include brewing technology, margarine and chocolate manufacture, and non-microbial hazards in plant foods.
Assumed Knowledge: FOOD101 Sustainable Food Production CHEM101 Chemistry 101 or equivalent BIOL101 Biology 101 or equivalent

FOOD2020  Dairy Food Science and Technology
Unit Value:  10
Considers the structure and operation of Australia’s dairy industry, examining the composition and physical properties of milk and its processing into industrial and consumer products. Functional ingredients including casein and whey are also examined, as well as fresh milk, butter, cheese, fermented and powdered products.
Contact hours: 5 hours per week plus 2 days field excursions
Assumed Knowledge: 30 CP of 100 level science subjects

FOOD2030  Animal Food Science and Technology
Unit Value:  10
Considers Australia’s meat, poultry and seafood industries, from animal muscle and meat proteins to factors affecting the quality and storage of meats and seafood. Topics include processing, food utilisation or marine organisms, developments in aquaculture, and egg technology.
Contact hours: 5 hours per week plus 2 days field excursions
Assumed Knowledge: 30 CP of 100 level science subjects

FOOD2040  Horticultural Food Science and Technology
Unit Value:  10
Research and development applied to horticultural food processing and technology.
Contact hours: 5 hours per week.
Assumed Knowledge: 30cp of 100 level science subjects

FOOD2100  Microbiology and Food Safety
Unit Value:  10
Contact hours: 5 hours per week
Assumed Knowledge: BIOL101 Plant and Animal Biology BIOL102 Cell Biology, Genetics and Evolution

FOOD2410  Food and Beverage Management 1
Unit Value:  10
Contact hours: 6 hours per week
Assumed Knowledge: 40 cp of 100 level subjects.

FOOD3010  Food Processing and Quality Management
Unit Value:  10
This course examines food processing systems and food quality management systems. Particular emphasis is on the application of Hazard Analysis Critical Control Point (HACCP) to food production with the aim of producing quality food that meets consumer expectations.
Assumed Knowledge: One from either Food 201, 202, 203 or Food 204. FOOD210 Microbiology and Food Safety

FOOD3010  Food Processing & Quality Management
Unit Value:  10
Aims to teach students how to understand the science and technology involved in using food processing systems to convert raw materials into selected consumer food products, and to integrate quality management into all aspects of food production with the aim of producing food products that meet consumer expectations.
Contact hours: 5 hours per week, 2 days field excursions.
Assumed Knowledge: One from either Food 201 Grain Food Science & Technology, FOOD202 Dairy Food Science & Technology, FOOD203 Animal Food Science & Technology or Food 204 Horticultural Food Science & Technology, FOOD210 Microbiology and Food Safety

FOOD3100  Food Biotechnology
Unit Value:  10
Aims to integrate molecular genetics and biotechnology and apply this knowledge to the production of agricultural products, food ingredients, nutrients, industrial microorganisms, probiotics and other health related products.
Contact hours: 2 hours per week
Assumed Knowledge: BIOL201 Biochemistry FOOD210 Microbiology and Food Safety

FOOD3110  Sensory Food Evaluation
Unit Value:  10
Contact hours: 5 hours per week
Assumed Knowledge: FOOD201 Grain Food Science and Technology or equivalent FOOD210 Microbiology and Food Safety
FOOD3210 Food Product Development
Unit Value: 10
Explains the use and evaluation of new products, from the definition of a product to its launch. Students consider the use and evaluation of functional ingredients and food additives as well as computer modelling techniques and project management. Quality Function Deployment (QFD) and international and ethnic foods.
Contact hours: 5 hours per week
Assumed Knowledge: FOOD2101 Grain Food Science and Technology or equivalent
FOOD210 Microbiology and Food Safety

FOOD3230 Food Analysis
Unit Value: 10
To provide knowledge and skills in the analysis of foods.
Contact hours: 5 hours per week.
Assumed Knowledge: 20 cp in Food or equivalent courses at 200 level

FOOD3410 Food and Beverage Management 2
Unit Value: 10
Illustrates the principles and practice of personal and public meal planning for safety and health, together with food and beverage service design. The significance of institutional food and beverage management in a multicultural society is discussed, together with quality control and total quality management of food and beverage services. Case studies relating food safety, food poisoning incidents and the role of quality assurance systems are presented. Hazard analysis at critical control point (HACCP) is covered in the context of the need for appropriate sanitation of food and beverage equipment and premises.
Contact hours: 6 hours per week
Assumed Knowledge: FOOD241 Food and Beverage Management 1

FOOD3420 FOOD PACKAGING
Unit Value: 10
Provides knowledge and skills in the handling and packaging of foods, and to develop values about the safety and environmental impact of packaging.
Contact hours: 5 hours per week.
Assumed Knowledge: 20 cp in 200 level Food or equivalent courses

FOOD4110 Food Technology Honours 411
Unit Value: 20
The subject provides an advanced and substantive education in Food Technology. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FOOD4120 Food Technology Honours 4120
Unit Value: 20
Provides an advanced and substantive education in Food Technology. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FOOD4130 Food Technology Honours 413
Unit Value: 20
The subject provides an advanced and substantive education in Food Technology. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FOOD4140 Food Technology Honours 4140
Unit Value: 20
Provides an advanced and substantive education in Food Technology. The course develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FORS2010 Introduction to Forensic Science
Unit Value: 10
This subject introduces students to the scientific basis of the discipline of forensic science and its practice: at the scene of the crime, in the forensic laboratory, and in court. Key objectives are to explain the role of the scientist in each of these areas, to identify the scientific skills and tasks appropriate to the former two areas, to establish the core scientific skills required for forensic science, and to relate these skills to other essential scientific knowledge.
Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is completion of CHEM101, CHEM102, BIOL101 and BIOL102. Further, LLB102 will provide an appropriate introductory background in criminal law pertinent to the subject.

FORS3010 Forensic Science I
Unit Value: 10
Examines scientific practice in the discipline of forensic science from a case perspective. Forensic scientists’ tasks linked to the scene of the crime and particularly the forensic laboratory will be examined. Scientific methods and their applications will be examined in depth. The subject will serve to elaborate the practice of and core scientific skills required for forensic science, but also will relate it to other essential discipline-based scientific knowledge studied at Levels 200 and 300.
Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is completion of SMFS201 and required Level 200 CHEM and BIOL subjects defined in the course outline. Further, LLB102 provides an appropriate introductory background in criminal law pertinent to the subject.

FORS3020 Forensic Science II
Unit Value: 10
Examines a set of specialized areas of forensic science from a perspective of their role and applicability. Topics areas such as forensic psychology and psychiatry, statistical genetics, forensic entomology, environmental forensics, forensic engineering and photogrammetry, as well as an overview of forensic medicine, will be examined. Contact hours: 2 lecture hours, 1 tutorial hour and 3 laboratory hours per week.
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is completion of SMFS201 and required Level 200 CHEM and BIOL subjects defined in the course outline. Further, LLB102 and higher level law subjects provides an appropriate introductory background in criminal law pertinent to the subject.

FORS4010 Forensic Science Honours 4010
Unit Value: 20
The Honours program in Forensic Science operates as a suite of four courses, which together are employed to produce a single final grade.
The course is composed of three formal lecture series and two sets of readings that cover broad areas relevant to current forensic science at an advanced level. Lecture topics involved are in the areas of advanced methods of characterisation, computers in forensic science, and occupational health and safety and quality assurance. Reading topics involved are in the areas of forensic laboratory methodology and forensic fieldwork methodology.
Assumed Knowledge: Completion of the basic undergraduate degree in Forensic Science with an average in Level 3000 courses equivalent to a credit.

FORS4020 Forensic Science Honours 4020
Unit Value: 20
The Honours program in Forensic Science operates as a suite of four courses, which together are employed to produce a single final grade.
This course is composed of readings in a selected area of current forensic technology at an advanced level, a literature search and review on the selected area of project research, and an analysis and report of experimental methodology relevant to the project area.
Assumed Knowledge: Completion of the basic undergraduate degree in Forensic Science with an average in Level 3000 courses equivalent to a credit.

FORS4030 Forensic Science Honours 4030
Unit Value: 20
The Honours program in Forensic Science operates as a suite of four courses, which together are employed to produce a single final grade.
The course is composed of directed research in a selected area of current forensic science at an advanced level, applying knowledge of the project area based on a relevant literature review and developed experimental methodology already constructed.
Assumed Knowledge: Completion of the basic undergraduate degree in Forensic Science with an average in Level 3000 courses equivalent to a credit.
Forensic Science Honours 4040
Unit Value: 20
The Honours program in Forensic Science operates as a suite of four courses, which together are employed to produce a single final grade.

The course requires the completion of directed research in a selected area of current forensic science at an advanced level (commenced in FORS4030), and preparation of a major and detailed scientific report on the research project.

Assumed Knowledge: Completion of the basic undergraduate degree in Forensic Science with an average in Level 3000 courses equivalent to a credit.

FREN1100 Elementary French 1
Unit Value: 10
Designed for those with little or no previous knowledge of French, this course introduces basic vocabulary and concentrates on speaking and understanding at the level of the language’s most fundamental sentence patterns.

Contact hours: 5 hours per week
Assumed Knowledge: Nil

FREN1200 Elementary French II
Unit Value: 10
A semester language unit designed as the continuation of the Introductory course FREN10. Provides vocabulary extension and further fundamental sentence patterns, still placing emphasis on speaking and understanding of the language at an elementary level.

Contact hours: 5 hours per week
Assumed Knowledge: FREN110 or equivalent

FREN1210 Growing up in France
Unit Value: 10
A semester course designed to introduce students to social attitudes and established cultural practices relating to childhood and growing up in France in the twentieth century. The course will enhance language skills as it involves the study of authentic material, including novels, children’s books and films.

Assumed Knowledge: Nil

FREN2120 Twentieth Century Texts
Unit Value: 10
Includes the study of at least two novels, with a selection of poems, theatrical sketches and “chansons françaises” that highlight socio-political issues of twentieth century French culture.

Contact hours: 5 hours per week
Assumed Knowledge: FREN120 Elementary French II or equivalent

FREN2140 Speaking French
Unit Value: 10
Involves practice of everyday spoken French in different contexts and registers. Simulations and role-playing are used to enhance spontaneity and fluency.

Contact hours: 5 hours per week
Assumed Knowledge: FREN120 Elementary French II or equivalent

FREN2610 French at Intermediate Level 1
Unit Value: 10
Provides a comprehensive language course for post beginners, improving the four basic skills needed for language acquisition.

Contact hours: 5 hours per week
Assumed Knowledge: FREN120 Elementary French II or equivalent

FREN2620 French at Intermediate Level II
Unit Value: 10
This course further develops the students knowledge of the four major skills of language acquisition - speaking, listening, reading and writing.

Assumed Knowledge: FREN120 Elementary French II or equivalent

FREN3160 Reading French
Unit Value: 10
Offers the study of major French magazine and newspaper articles as well as literary texts and extracts from French-language films and television programs to develop reading skills. This course will complement and enhance the oral/aural content of the specifically grammatically based courses in the French core offering.

Contact hours: 2 hours per week
Assumed Knowledge: FREN261 Intermediate French I or equivalent

FREN3170 Couples and Triangles in French texts
Unit Value: 10
This course presents students with a range of French-language texts from different centuries and from various literary or visual genres by encouraging comparison according to the theme of “couples and triangles.”

Assumed Knowledge: FREN262 or equivalent

FREN3610 French at Advanced Level 1
Unit Value: 20
Offers a language course which places emphasis on developing the students’ powers of free expression in the oral and written codes, and on the understanding of authentic documents. Also the first stage in a comprehensive review of grammatical structures.

Contact hours: 4 hours per week
Assumed Knowledge: FREN262 Intermediate French II or equivalent

FREN3620 French at Advanced Level 2
Unit Value: 20
A language course designed as a sequel to FREN361, continuing to develop the students’ oral and written expression as well as a further understanding of authentic documents.

Contact hours: 4 hours per week
Assumed Knowledge: FREN361

FREN3710 French at Advanced Level 3
Unit Value: 20
Advanced study of French syntactic structures, Stylistic registers and idiom by means of close study of French texts (literary and otherwise). Introduction to techniques of translation (English-French, French-English). Practice in oral fluency, through directed exercises and prepared discussion on selected topics.

Contact hours: 4 hours per week
Assumed Knowledge: FREN362 Advanced French II or equivalent

FREN3720 French at Advanced Level IV
Unit Value: 20
An advanced language course designed to follow FREN371. Further study of syntactic structures and stylistic registers in French writing, with emphasis on sustained writing by students on an agreed topic. Advanced oral work is continued. Further study is made of contemporary French culture through literary texts.

Contact hours: 4 hours per week
Assumed Knowledge: FREN371 Advanced French III or equivalent

FREN3900 Hartley Studies in France
Unit Value: 40
Studies undertaken in France by students who have been awarded a Kelver Hartley Undergraduate Scholarship. The course is not available to other students. (Internal Mode)

Assumed Knowledge: Completion of the equivalent of two undergraduate full-time years of study in French (1000 level and 2000 level). As the Scholarships are awarded competitively, a high degree of competence must be demonstrated.

FREN4150 French Honours 1
Unit Value: 20
Comprises language study and textual analysis culminating in the submission of a mini thesis. Seminars are so constructed to refine the student’s oral and written command of the language and to guide him/her in developing theoretical, bibliographical and analytic skills of sustained research. The courses FRE415, FRE416, FRE417 and FRE418 make up the Honours program and are to be studied in conjunction with each other.

Contact hours: TBA
Assumed Knowledge: Successfully completed degree with major in French with credit or above.

FREN4160 French Honours 2
Unit Value: 20
Comprises language study and textual analysis culminating in the submission of a mini thesis. Seminars are so constructed to refine the student’s oral and written command of the language and to guide him/her in developing theoretical, bibliographical and analytic skills of sustained research. The courses FRE415, FRE416, FRE417 and FRE418 make up the Honours program and are to be studied in conjunction with each other.

Contact hours: TBA
Assumed Knowledge: Successfully completed degree with major in French with credit or above.

FREN4170 French Honours 3
Unit Value: 20
Comprises language study and textual analysis culminating in the submission of a mini thesis. Seminars are so constructed to refine the student’s oral and written command of the language and to guide him/her in developing theoretical, bibliographical and analytic skills of sustained research. The courses FRE415, FRE416, FRE417 and FRE418 make up the Honours program and are to be studied in conjunction with each other.

Contact hours: TBA
Assumed Knowledge: Successfully completed degree with major in French with credit or above.
FREN4180 French Honours IV
Unit Value: 20
Comprises language study and textual analysis culminating in the submission of a mini thesis. Seminars are so constructed to refine the student's oral and written command of the language and to guide him/her in developing theoretical, bibliographical and analytic skills of sustained research. The courses FRE415, FRE416, FRE417 and FRE418 make up the Honours program and are to be studied in conjunction with each other.
Contact hours: 4/5 hours
Assumed Knowledge: Successfully completed degree with major in French with credit or above in French at 300 level.

FSHN1010 Foods and Nutrition I
Unit Value: 10
Integrates basic food science with practical applications. This is done through laboratory-based evaluations of food constituents and their reactions in products. Students engage in product development and product manipulation to test their findings and to make products that meet specific nutrient requirements.
Contact hours: 3 hours per week.
Assumed Knowledge: There is no assumed knowledge

FSHN1020 Foods and Nutrition II
Unit Value: 10
Introduces students to the field of the nutritionist through the study of nutrients, models for and barriers to healthy eating, and the measurement, recording and analysis of food intake. This is supported by a study of sectors of the food industry and government bodies that are committed to achieving better nutrition for all Australians.
Contact hours: 3 hours per week.
Assumed Knowledge: There is no assumed knowledge

FSHN2010 Human Physiology
Unit Value: 10
Discussion will focus on fundamental principles and concepts of human physiology, the mechanisms by which the body functions. The importance of physiological mechanisms in responding to external factors will provide a theme for this course.
Assumed Knowledge: CHEM111C CHEM112C BIOL104C BIOL105C

FSHN2020 Macronutrients
Unit Value: 10
Energy nutrients (carbohydrates, fats, proteins and alcohol) will be discussed with reference to chemistry, food sources, absorption, metabolism, physiological functions, development and consequences of deficiency, requirements for Australians, therapeutic use, toxicity and assessment of status. Mechanistic principles of nutrition and their application in preventive and curative aspects of human health throughout the life cycle will be discussed.
Contact hours: 5 Contact Hours per week.
Assumed Knowledge: BIOL 104C BIOL 105C FSHN101 FSHN102

FSHN2030 Micronutrients
Unit Value: 10
Micronutrients (vitamins, minerals and other minor components of the human diet) will be discussed with reference to chemistry, food sources, absorption, metabolism, physiological functions, development and consequences of deficiency, requirements for Australians, therapeutic use, toxicity and assessment of status. Mechanistic principles of nutrition and their application in preventive and curative aspects of human health throughout the life cycle will be discussed.
Assumed Knowledge: BIOL 104C BIOL 105C FSHN101 FSHN102 FSHN202

FSHN2040 Animal Food Products
Unit Value: 10
The course provides a study of the structure, composition and function of animal tissues commonly used for human food. The course focuses on the physical and biochemical changes occurring during the conversion of muscle to meat and their influence on nutritional quality. Course coverage also includes the chemical, physical and microbiological properties of milk and dairy products, and the processes used to convert raw milk to consumer products.
Assumed Knowledge: To facilitate success in this course, students are expected to have successfully completed BIOL 103, FSHN101 and FSHN102.

FSHN2050 Plant Food Products
Unit Value: 10
Studies the structure, composition, properties and uses of cereal grains with emphasis on wheat; processing and technology of wheat and rice. Also the post-harvest handling and storage of fresh fruit and vegetables is studied in relation to their biochemistry, physiology, composition and response to changes in the physical environment. Properties and methods of processing of other food plant materials such as sugar cane, lipids, soya milk, tea and coffee will also be addressed.
Assumed Knowledge: To facilitate success in this course, students are expected to have successfully completed FSHN103, FSHN106 and FSHN107.

FSHN2100 Microbiology, Food Safety and Immunology
Unit Value: 10
Focuses on microbiology and immunology in the context of food and nutrition.
The course provides foundation concepts in microbiology and immunology that leads to a thorough understanding of these disciplines relevant to a broad range of sciences. It covers issues relevant to the food and nutrition industry including food safety, emerging pathogens, food allergy and functional foods.
Assumed Knowledge: BIOL 104C BIOL 105C
GEND1020  Introduction to Gender Studies
Unit Value: 10
Provides a theoretical introduction to Gender Studies utilising an interdisciplinary approach. This is a core course in the Gender Studies Major offered by the Faculty of Education and Arts. It is further developed in the other core interdisciplinary gender studies courses offered at 2000 and 3000 levels.
Assumed Knowledge: 20 units Group A 1000 level courses

GEND2010  Feminisms: Social and Cross-Cultural Perspectives
Unit Value: 10
Presents central theoretical and historical understandings of feminisms, broadening these analyses to contribute to theorising gender. Its analysis of feminist social movements acknowledges their location of the concept of gender into academic discourse. Tracing course developments then leads to an informed consideration of contemporary theoretical and social challenges. This is a core course in the Gender Studies Major offered by the Faculty of Arts and Social Science. It further develops theoretical and research understandings from the core introductory interdisciplinary gender studies course offered at the 1000 level.
Assumed Knowledge: 20 units Group A 2000 level

GEOG1020  Introduction to Human Geography
Unit Value: 10
Focuses on an explanation of the world that we live in. In this introductory subject an understanding and appreciation of the complex interactions and inter-relations of place(s) and their populations is gained through examining places and society through the core themes of globalisation, difference and inequality. The subject, therefore explores the way in which global economic and social relationships continually shape places and lead to patterns of inequality and diversity. Students gain both practical and theoretical insights into major aspects of these geographical processes including urban, economic, cultural and population geography. These issues are examined with a particular emphasis on Australia within its regional and global context. Students are also taught skills and concepts transferable to other subject areas and to future employment opportunities.
Assumed Knowledge: Nil

GEOG2080  Cities and Regions
Unit Value: 10
Australians cities and regions are transforming and there is heated political debate about their future. GEOG208 examines the economic, social and cultural dynamics of cities and regions, and contemporary shifts in the theories through which we understand them. The subject draws on a series of case studies of Australian cities, regions, industries, communities and policies to explain patterns of urban and regional growth and decline, change and continuity. Topics covered include: urban economic and socio-cultural diversity; changing urban form, sustainable urban and regional development; policy challenges for the management of urban and regional growth and decline.

Contact hours: 4 lecture hours per week and a one-day field trip
Assumed Knowledge: GEOG102 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities.

GEOG2110  Methods in Human Geography
Unit Value: 5
This 5 cp course is only available for transition purposes to enable completion of degree program. Not to count with GEOG202.

Focuses on the collection, processing and interpretation of information from a variety of sources including the ABS Census of Population and Housing, questionnaires and in-depth interviews. Students are expected to become familiar with key software in common use in applied human geography including Excel, Word and MapInfo. Throughout GEOG211 students are involved in the evaluation and interpretation of geographical information. The subject is essential preparation for third year human geography courses, incorporating a problem solving approach useful for human geography and the social sciences.

Assumed Knowledge: GEOG102, GEOG211 and GEOG207/GEOG213 or GEOG208.

GEOG2130  Geographies of Development
Unit Value: 10
Provides an introduction to Development Geography from the North-South perspective (First World/Third World). Colonialism and imperialism are discussed with respect to social, cultural, economic and environmental development in Latin America, Africa, Asia and Australia. The subject introduces concepts and theories that explain uneven development and its consequences and debates major trends of globalisation and neo-colonialism affect economies and societies in developing countries. Sustainable and alternative approaches such as popular, participative and bottom-up development are evaluated. Students undertake critical policy appraisals, and work with data bases on development indicators and geographical information systems.

Contact hours: 4 lecture hours and a one-day field trip
Assumed Knowledge: The subject is relevant to students who have completed GEOG102 or equivalent and appropriate other 100 and 200 level subjects in the Social Sciences and Humanities. It further complements other 200 level subjects in Geography (GEOG208).

GEOG2150  Human Geography Methodologies
Unit Value: 10
The course focuses on the collection, processing and interpretation of information from a variety of sources including the ABS Census of Population and Housing, World Development Indicators, other published data sources, on-line data sources, the development of questionnaires and the conduct of in-depth interviews. The subject incorporates a problem solving approach useful for human geography and the social sciences. The subject is essential preparation for third year human geography courses.

Contact hours: 2 hours of lectures and 2 hours of practicals per week
Assumed Knowledge: GEOG102, ENV104 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities.

GEOG2300  Advanced Methods in Human Geography
Unit Value: 10
Focuses on important methodologies currently practised in social and cultural aspects of human geography. Examines all major elements of the research experience including research project design, theoretical frameworks for research, data sources, methods, field work, analysis of qualitative and quantitative data, reporting and presentation of results, computer-aided mapping, and the ethical responsibilities of researchers. The subject includes a 5-day field trip to a major Australian city to investigate a contemporary issue in human geography while developing advanced field research, methodology and communication skills. As part of the subject students design, undertake and write-up an individual research project based on research and field work conducted during the field trip.

Contact hours: 4 hours per week for seven weeks and a five-day field trip usually prior to commencement of semester
Assumed Knowledge: GEOG208, GEOG211 and GEOG207/GEOG213 or GEOG208.

GEOG2800  Society and Space
Unit Value: 10
Society and Space studies the dynamics of large cities and urban places, in particular, their patterns of intra-urban social variation, their cultural construction, the distribution of power and status in cities and manifestations of popular culture such as music, film and sport. The subject reflects the three major themes of contemporary cultural geography, place, social groups and popular culture. Through these themes issues of socio-spatial power are related to class, gender, sexuality, race, age and disability. The subject employs a range of geographical methods and skills to evaluate and synthesise information about representations of the city and the social construction of urban space.

Contact hours: 4 lecture hours per week; also a two-day field trip
Assumed Knowledge: GEOG207/213 or GEOG208 and GEOG209 and GEOG211 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG2820  Postcolonial Geographies
Unit Value: 10
Discusses the major theoretical insights of the post-colonialism literature in geography. The theoretical insights of this section of the subject are then mobilised to examine key moments of the post-colonial world in both the developed and developing countries. In particular the subject explores the impact of post-colonialism on social groups, including indigenous people, and the implications of colonialism for the relations between different social groups within nations (the diaspora). Finally the subject examines some of the products of the post-colonial world, such as post-colonial cities and representations.

Contact hours: 4 lecture hours per week and a two-day field trip
Assumed Knowledge: GEOG207/GEOG213 or GEOG208 and GEOG209 and GEOG211 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.
GEOG3240 Globalisation: Cities, Economies
Unit Value: 10
This subject is not available for students who have completed GEOG319.
Analyses the ways that globalisation has drastically changed the contemporary geography of cities and economies in the context of new global flows of finance, goods, services and ideas. GEOG324 builds understandings of the rise in power of global cities, the new forms of governance which control them and their intersection with global networks. The subject also explores the development of new global geographies of production and consumption. Common themes in the subject include the discursive constructions of globalisation, the nature and effects of technological change, systems of governance, the operations of property, finance and labour markets and the impacts of changes on disadvantaged groups.
Contact hours: 4 lecture hours per week and a one-day field trip
Assumed Knowledge: GEOG207 or GEOG213 or GEOG208 and GEOG209 and GEOG211 or appropriate equivalent 200 level subjects in the Social Sciences and Humanities.

GEOG3200 Statistical Methods in Geography and Environmental
Unit Value: 5
This 5 cp course is only available for transition purposes to enable completion of degree program. Not to count with GEOG201 or GEOG202 or ENV203.
Provides students with an introduction to the collection, analysis and interpretation of geographical data. Lectures focus on the theoretical principles underlying the handling of data and the use of statistical techniques. Students are introduced to the statistical tests commonly used by geographers. Practical sessions concentrate on the assembly, evaluation and interpretation of geographical data. Microsoft Excel is the main software used.
Contact hours: 2 lecture hours and 2 laboratory hours on alternate weeks.
Assumed Knowledge: GEOG101 or GEOG102 or ENV104.

GEOG2100 Methods in Physical Geography
Unit Value: 5
This 5 cp course is only available for transition purposes to enable completion of degree program. Not to count with GEOG201.
Designed to provide students with core skills in the collection, manipulation and presentation of spatial data in solving problems in the fields of physical geography and environmental science. The skills acquired are directly applicable to a range of subsequent 2nd and 3rd year subjects, and will provide students with both a solid foundation for field-based honours research and experience on spatial information systems used widely in public and private sector geoscience organisations. The subject also lays the foundations for the proposed 3rd year subject on geographic information systems.
Contact hours: 2 lecture hours and 2 laboratory hours on alternate weeks, and a one-day field trip.
Assumed Knowledge: GEOG101 or ENV104.

GEOG2130 Ancient Environments and Organisms
Unit Value: 10
Integrates ancient sedimentary environments with the evolution and morphology of ancient life, stratigraphic relationships and time. The mode of delivery is through 2-3 hours of lecture material each week and 3-4 hours of practical work.
Assumed Knowledge: GEOL101, GEOL102

GEOG2150 Geology Field Course
Unit Value: 10
Provides an introduction to the geology of the southern Sydney Basin and the Lachlan Fold Belt. Involves the interpretation of sedimentary, igneous and metamorphic rocks, the mapping of igneous plutons and metamorphic sequences and the production of stratigraphic logs.
Contact hours: 2 hours of instruction per week and 2 excursions of 1 week duration in the week prior to the commencement of semester, and during the mid-semester break.
Assumed Knowledge: Level 100 Earth Materials (GEOL102)

GEOG2161 GIS and Remote Sensing
Unit Value: 10
Provides students with an introduction to the principles of geographic information systems (GIS) and remote sensing and the application of these techniques to the geosciences. The first part of the course focuses on GIS, where the structure and format of GIS data, data input and transformation, database compilation, and the use of search criteria and spatial modelling to carry out suitability mapping are examined. In remote sensing, the focus is the capture and processing of satellite images, and how data from various satellite platforms is used in the geosciences. The course is strongly computer-based, and students will gain experience in the use of IDRISI32 GIS/image processing software.
Assumed Knowledge: GEOG101 or GEOL101 or ENV104.

GEOG2170 Optical Mineralogy and Igneous Petrology
Unit Value: 10
Provides an introduction to optical crystallography, rock-forming minerals and igneous petrology. The subject provides the fundamentals of mineral identification using the petrological microscope, mineral chemistry, and the petrogenesis of igneous rocks in relation to plate tectonic environment. Lectures encompass the theoretical sections of the course, while the practical aspect is delivered by the use of microscopes and rock thin-sections.
Contact hours: 2 lecture hours and 4 laboratory hours per week
Assumed Knowledge: Geology 101/102

GEOG2180 Sedimentary and Metamorphic Petrology
Unit Value: 10
Comprises an introduction to the petrology of sedimentary and metamorphic rocks in thin section using the transmitted light microscope. Students will learn about modes of formation of sedimentary and metamorphic rocks by studying hand specimens and their microscopic features.
Contact hours: 2-hour lecture and 4 hours laboratory and tutorials per week
Assumed Knowledge: Students attempting this subject must have successfully completed GEOL217.
GEOS2190 Structural and Field Geology
Unit Value: 10
Introduces students to the concepts of structural geology, deformation processes operating in the earth’s crust and the description, analysis and mapping of deformed rocks.
Contact hours: 2 lecture hours, 4 laboratory hours per week (first half of semester) and a 7-day field mapping course (mid-semester break)
Assumed Knowledge: Students should have completed successfully the introductory geological subjects at 100 level (GEOL101 and GEOL102), plus the first component of field mapping at 200 level (GEOL215 Geology Field Course 215).

GEOS3110 Igneous Petrology & Crustal Evolution
Unit Value: 10
The first section provides a detailed analysis of the major tectonic and petrological processes involved in the generation of the major rock groups on the planet (basalts, andesites, granites). The second examines the changes in continental building processes through time, from Archean to present, using the Australian continent as the example.
Assumed Knowledge: GEOL217, GEOL312

GEOS3130 Structural Geology and Geophysics
Unit Value: 10
The geophysics component introduces students to the use of geophysical exploration techniques. It provides an understanding of the physical basis of each technique since this impacts on the geological situations in which particular techniques can be successfully applied. The application of different techniques to metallic ore and hydrocarbon exploration are illustrated and the advantages and limitations of geophysical methods are discussed. The structural geology component develops students understanding of the geometries and structures produced during crustal scale deformation in different tectonic settings. It also includes deformation processes, the kinematic evolution of structures, the mechanics of faulting and fracturing and fluid flow through the crust.
Contact hours: 2 lecture hours and 4 laboratory hours per week
Assumed Knowledge: Level 200 Structural and Field Geology (GEOL219)

GEOS3150 Basin Analysis
Unit Value: 10
This one-semester course introduces the topic of Basin Analysis concentrating on core logging seismic and wireline logging techniques and the sequence stratigraphy approach to basin fill.
Contact hours: 3 lecture hours and 3 laboratory hours per week, including a 1 day field trip and 2 day field trip during semester
Assumed Knowledge: GEOL212, 213

GEOS3160 Geology of Fuels
Unit Value: 10
Introduces the theory and practice of work in the coal, petroleum and gas area of Geology. The mine and field geologist requires a wide knowledge of coal formation parameters to interpret and model deposits in terms of the direction of quality improvement or decline. The geochemical environment of formation strongly influences coal/oil quality, which is heavily monitored for pollutants arising from nitrogen, sulphur, phosphorous and trace elements.
Contact hours: 2 lecture hours and 4 laboratory hours per week
Assumed Knowledge: GEOL213

GEOS3170 Resource and Exploration Geology
Unit Value: 10
Presents fundamental criteria for the formation and characteristics of metallic ore deposits. Emphasis is on an understanding of ore-forming processes in magmatic, hydrothermal and metamorphic settings. A computer-assisted learning package entitled ‘An Introduction to Exploration Practice’ and study material from world-class ore deposits complement the lecture course.
Contact hours: 3 lecture hours and 3 laboratory hours per week
Assumed Knowledge: Students should have completed successfully Geology subjects at lower levels, especially those involving petrology, optical mineralogy, structural geology and field-based subjects.

GEOS3180 Advanced Climatology
Unit Value: 10
Not to count with GEOG3105.
Describes anthropogenic impacts on climate through air pollution on the local, regional and global scales. Air pollution impacts on urban atmospheres are an important focus. Climate variations are linked to Greenhouse warming, stratospheric ozone depletion and acid rain. Comparison of the roles of modellers and researchers on air pollution are discussed.
Assumed Knowledge: GEOS203 provides a basic introduction to climate, weather, and atmospheric structure is a crucial pre-requisite. GEOS2161 (previously GEOG209 and GEOG210) provides a basic introduction to statistical, computer, and geographical methods and is also essential.

GEOS3200 Quaternary Environments
Unit Value: 10
Examines theories of glaciation, their climatic subdivision into glacial and interglacial stages, and the methods of dating deposits formed by various geomorphic processes during the Quaternary Period. Glaciation of the Southern Hemisphere, sea level changes, and landscape changes involving river, lake, aeolian, karst, volcanic and tectonic processes are covered. Includes an examination of paleoenvironments using pollen, analytical studies and the use of proxy data for climatic reconstruction. Fieldwork and laboratory work demonstrates the methods of focus. The extinction of the Australian megafauna and the impact of the occupation of Australia by Aboriginal and European peoples are reviewed.
Assumed Knowledge: (GEOS2090, GEOS3100 or ENV2030) and either GEOS2040 or EMGT2010

GEOS3220 Climate Change and the Environment
Unit Value: 10
Examines the nature, causes and extent of Quaternary climate change, with a particular emphasis on how the environment has responded to such change over the last 10,000 years. It focuses on the methods used to obtain proxy climate histories and the sources of these climate records, including ice cores, corals, tree rings, cave deposits, pollen, and coastal and fluvial landforms and sediments. The techniques used to determine the age of these deposits are also covered. Whilst much of the course centres on the Australian region, evidence of environmental and climate change from other continents, including Antarctica, South America and Europe, is also considered.
Contact hours: 4 hours per week, consisting of lectures and practicals. The exact mix will vary from week to week. Includes 3 days of field work.
Assumed Knowledge: GEOG204 and/or GEOG203 and/or EMGT201

GEOS3231 Geology Field Course 321
Unit Value: 10
Provides a state-of-the-art field course on structural mapping of a complex, multiply deformed geological terrain. Detailed fieldwork will be augmented with microstructural analysis using thin sections, to determine a P-T-T history of the region, so that tectonic setting can be evaluated.
Contact hours: 8-10 days of mapping near Easter or in July, with a review of the material 2 weeks before submission of a report in Semester 2.
Assumed Knowledge: Level 200 GEOL15 (Fieldcourse)

GEOS3232 Coastal Dynamics, Evolution and Protection
Unit Value: 10
Focuses on the evolution and stability of sand, mud and carbonate coasts of Australasia and the Pacific Ocean. Coastal morphodynamics are investigated with respect to the influence of sediment characteristics, supply and transport, geological inheritance, coastal climatology, nearshore and shelf oceanography, tectonics, sea-level fluctuations, and human activity. Large scale coastal behaviour is examined on timescales ranging from decades to millennia. The coastal impacts of climate variability, extreme events and climate change are a particular focus. Coastal protection strategies are investigated in case studies on long-term coastal behaviour in eastern Australia and the Pacific Islands.
Contact hours: 4 hours per week consisting of lectures and practicals, and a 5 day field trip.
Assumed Knowledge: Students should have completed GEOG209, GEOG210 or ENV2030 plus GEOG204 and have some basic mathematical background.

GEOS3231 Environmental Geology
Unit Value: 10
Examines the ways in which natural geological processes and geological materials can influence, and are influenced by, human activity, and how they impact on land use options. Topics studied include natural hazards, pollution of the environment, and the influence of geology on construction. Emphasis is on understanding the relevant geological processes and developing the scientific skills that are necessary to understand, and mitigate, environmental problems. Mode of delivery is through 2 hours of lectures and 4 hours of labs. per week.
Assumed Knowledge: Level 200 Ancient Environments (GEOL123)

GEOS3230 Geology Field Course in Carbonate Sediments
Unit Value: 10
Not to count with GEOL318.
This one semester course introduces students to the sedimentology and stratigraphy of carbonate environments. This is chiefly attained by taking part in a one week field excursion to the Great Barrier Reef and a follow up research project on campus.
Location: Heron Island Research Station Great Barrier Reef and Callaghan Campus - Session 1.
Contact hours: 50 hours field study
Assumed Knowledge: GEOL212, GEOL213
### GEO3240 Geology Field School

**Unit Value:** 20

Provides a comprehensive field course in geology that covers all major aspects of geology. Each component of this course focuses on a particular aspect of geology and involves problem-based learning in a field situation. Each component also allows students to apply in the field their knowledge gained from conventional lecture/laboratory style geological courses that they have undertaken previously.

**Assumed Knowledge:** Students are expected to have a reasonably broad geological knowledge spanning 200 and 300 levels.

### GEO3250 Geographic Information Systems

**Unit Value:** 10

Geographic Information Systems (GIS) has widespread applications in studies of the environment, the physical landscape and in urban and regional planning. It has a variety of commercial, social and environmental applications. GEOG326 Geographic Information Systems has three components. The first is a lecture and workshop based module, which introduces the roles in GIS, cartography and presentations in a variety of human and physical domains and its operation as a problem solving tool. The second component involves the development of GIS competencies through computer laboratory based practices. The third requires the successful completion of a major problem solving exercise involving the collection and processing of integrated socio-economic, environmental and physical data.

**Contact hours:** 2 hours lectures and 4 hours workshops per week.

**Assumed Knowledge:** The subject is suitable for students who have successfully completed 40 credit points at 200 level in human/physical geography, environmental science/management or geology. Basic competencies are expected in statistical analysis, the use of data base and spreadsheet software and simple graphical analysis using Windows-based software included in subjects such as GEOG209/GEOG210, GEOG209/GEOG211, ENV203.

### GEO4110 Geography Honours 411

**Unit Value:** 20

The Honours Program in Geography produces students of the highest standing for securing future research and other career pathways. The subject (along with GEOG411, GEOG421 and GEOG422) is part of the Honours Program which occupies two semesters and is designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literatures; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques.

Students undertake weekly classes during semester one involving discussions of theoretical and applied directions in geography and environmental science, student-based presentations of key issues and training workshops in computing skills, on-line bibliographic searches, statistical analysis, writing techniques, and cartography. During the second semester, students work on the production of an original research thesis under close supervision of an academic staff member. A high quality thesis demonstrates a student’s capacity for effective data collection (usually through fieldwork), processing, analysis and interpretation, and for high quality presentation of results.

**Contact hours:** By arrangement.

**Assumed Knowledge:** A major in the appropriate sub-discipline with a minimum credit grade average

### GEO4121 Geology Honours 412

**Unit Value:** 20

Rationale, aims and objectives of honours topic to be presented, including seminar, assignment and seminar of broad subject of interest not related to honours topic; written and oral presentation of Honours Thesis.

**Assumed Knowledge:** Geology undergraduate degree.

### GEO4210 Geography Honours 421

**Unit Value:** 20

The Honours Program in Geography produces students of the highest standing for securing future research and other career pathways. The subject (along with GEOG411, GEOG412 and GEOG422) is part of the Honours Program which occupies two semesters and is designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literatures; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques.

Students undertake weekly classes during semester one involving discussions of theoretical and applied directions in geography and environmental science, student-based presentations of key issues and training workshops in computing skills, on-line bibliographic searches, statistical analysis, writing techniques, and cartography. During the second semester, students work on the production of an original research thesis under close supervision of an academic staff member. A high quality thesis demonstrates a student’s capacity for effective data collection (usually through fieldwork), processing, analysis and interpretation, and for high quality presentation of results.

**Contact hours:** By arrangement.

**Assumed Knowledge:** A major in the appropriate sub-discipline with a minimum credit grade average

### GEO4220 Geography Honours 422

**Unit Value:** 20

The Honours Program in Geography produces students of the highest standing for securing future research and other career pathways. The subject (along with GEOG411, GEOG412 and GEOG422) forms part of the Honours Program which occupies two semesters and is designed to develop in students a highly developed capacity to read, understand and evaluate academic and professional literatures; the ability to communicate effectively using abstractions, theorisations and case study material; the ability to write effectively using a variety of appropriate styles; and mastery of specific data collection techniques.

Students undertake weekly classes during semester one involving discussions of theoretical and applied directions in geography and environmental science, student-based presentations of key issues and training workshops in computing skills, on-line bibliographic searches, statistical analysis, writing techniques, and cartography. During the second semester, students work on the production of an original research thesis under close supervision of an academic staff member. A high quality thesis demonstrates a student’s capacity for effective data collection (usually through fieldwork), processing, analysis and interpretation, and for high quality presentation of results.

**Contact hours:** By arrangement.

**Assumed Knowledge:** A major in the appropriate sub-discipline with a minimum credit grade average

### GREK1010 Elementary Greek I

**Unit Value:** 10

Introduces students to the study of Ancient Greek, as written and spoken in Athens in the fifth and fourth centuries BC. Reading in the original language is accompanied by basic grammatical and syntactical instruction.

**Contact hours:** 4 hours per week

**Assumed Knowledge:** None.

### GREK1020 Elementary Greek II

**Unit Value:** 10

Introduces students to the study of Ancient Greek, as written and spoken in Athens in the fifth and fourth centuries BC. Reading in the original language is accompanied by basic grammatical and syntactical instruction.

**Contact hours:** 4 hours per week

**Assumed Knowledge:** GREK1010 or equivalent.
GREK2110  Greek for Historians I
Unit Value:  10
Introduces the study of Greek for those needing to read Greek sources, involving basic grammar and syntax, prescribed reading, and problem solving exercises.
Contact hours: 4 hours per week
Assumed Knowledge: 20 units at 100 level in Ancient History or Latin

GREK2120  Greek for Historians II
Unit Value:  10
Further Greek for those needing to consult sources in the Greek language, involving further grammar, syntax, reading, and problem-solving.
Contact hours: 4 hours per week
Assumed Knowledge: GRK211

GREK2510  Intermediate Greek
Unit Value:  20
Consists of parallel reading grammar classes, and introduces students to the reading and comprehension of major Greek classics. Facilitates entry to the other Advanced level Greek courses which lead to a major (GRK 352, 353, 354, 355).
Contact hours: 4 hours
Assumed Knowledge: 20 units of Greek at 100 level

GREK3540  Advanced Greek C
Unit Value:  20
One of four advanced level Greek subjects for students intending to proceed to a major in Greek. They consist of parallel reading and grammar classes, and provide students with the opportunity to read and comprehend the major Greek classics.
Only two of the subjects GREK3520, GREK3530, GREK3540, GREK3550 will be offered in any given year.
Assumed Knowledge: Equivalent to 20 units of Greek at 1000 level + GREK2510

GREK3550  Advanced Greek D
Unit Value:  20
One of four advanced level Greek courses for students intending to proceed to a major in Greek. They consist of parallel reading and grammar classes, and provide students with the opportunity to read and comprehend the major Greek classics.
Only two of the courses GREK3520, GREK3530, GREK3540, GREK3550 will be offered in any given year.
Assumed Knowledge: Equivalent to 20 units of Greek at 1000 level + GREK2510

GREK4540  Greek Honours I
Unit Value:  20
This course is studied in conjunction with GREK4550, GREK4560, and GREK4570. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Greek from Homer until the early centuries AD, aimed at in an in depth understanding of various aspects of the Greek world enhanced by a sensitive understanding of original Greek literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GREK4550  Greek Honours II
Unit Value:  20
This course is studied in conjunction with GREK4540, GREK4560, and GREK4570. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Greek from Homer until the early centuries AD, aimed at in an in depth understanding of various aspects of the Greek world enhanced by a sensitive understanding of original Greek literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GREK4560  Greek Honours III
Unit Value:  20
This course is studied in conjunction with GREK4540, GREK4550, and GREK4570. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Greek from Homer until the early centuries AD, aimed at in an in depth understanding of various aspects of the Greek world enhanced by a sensitive understanding of original Greek literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GREK4570  Greek Honours IV
Unit Value:  20
This course is studied in conjunction with GREK454, GREK455, and GREK456. The four courses together constitute an Honours programme in the language and literature of ancient Greek from Homer until the early centuries AD, aimed at an in depth understanding of various aspects of the Greek world enhanced by a sensitive understanding of original Greek literature.
Contact hours: 2 per week
Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GRMN1001  Elementary German 1
Unit Value:  10
Introduces the major structures and basic vocabulary of German to students with little or no previous knowledge of the language. Students develop skills in understanding, speaking, reading and writing German and are equipped to expand these skills through further studies or direct exposure to the language.
Assumed Knowledge: None

GRMN1002  Elementary German 2
Unit Value:  10
Continues to develop the language skills of students who have completed GRMN1001 or an equivalent program of study such as German at 2UZ HSC level, a WEa or a German Saturday School program, or a stay in Germany.
Students are equipped to expand these skills during further study or direct exposure to the language, e.g. via Exchange Programs.
Assumed Knowledge: GER1001 or equivalent

GRMN2013  Continuing German: Language Revision 1
Unit Value:  10
This course provides students with an understanding of the essential grammatical structures of the German language. It aims to provide a complete basis for further study of the German language at higher levels.
Assumed Knowledge: GRMN 1002 or equivalent

GRMN2014  Continuing German: Language Revision 2
Unit Value:  10
This course further develops students’ understanding of the essential grammatical structures of the German language. It aims to provide a complete basis for further study of the German language at higher levels. Internal mode of delivery; 2 contact hours per week.
Assumed Knowledge: GRMN2013 or equivalent

GRMN2033  Continuing German: German Idiom 1
Unit Value:  10
This course is designed for students with some experience of German. It concentrates on further developing reading, writing, listening and speaking skills (use of interjections, common idiomatic expressions, particles). The course aims to provide a complete basis for further study of the German language at a senior level. Internal mode of delivery; 2 contact hours per week.
Assumed Knowledge: GRMN1002 or equivalent

GRMN2034  Continuing German: German Idiom 2
Unit Value:  10
This course is designed for students with some experience of German. It concentrates on further developing reading, writing, listening and speaking skills (use of interjections, common idiomatic expressions, particles). The course aims to provide a complete basis for further study of the German language at a senior level. Internal mode of delivery; 2 contact hours per week.
Assumed Knowledge: GRMN2033 or equivalent

GRMN3043  German for Commerce and Industry 1
Unit Value:  10
This course and its second semester equivalent GRMN3044 are designed for students who have either completed GRMN1002 ELEMENTARY GERMAN or who have obtained a satisfactory result in the HSC in German. It familiarises students with the vocabulary and major structures of German used in a commercial and industry setting. However, many of these are also useful for negotiating everyday situations in the German speaking countries.
Assumed Knowledge: GRMN1002 or equivalent

GRMN3044  German for Commerce and Industry 2
Unit Value:  10
This course and its first semester equivalent GRMN3043 are designed for students who have either completed GRMN1002 ELEMENTARY GERMAN or who have obtained a satisfactory result in the HSC in German. It familiarises students with the vocabulary and major structures of German used in a commercial and industry setting. However, many of these are also useful for negotiating everyday situations in the German speaking countries.
Assumed Knowledge: GRMN3043 or equivalent
GRMN3101 Intermediate German Language 1  
Unit Value: 10  
The aim of this program is to improve all four of the essential language skills: listening, speaking, reading and writing. Writing skills will be given more prominence than in CONTINUING GERMAN. Many exercises are open-ended, and students will be expected to improve their own individual level of competence in all four skills.  
Assumed Knowledge: 20 units at 2000 level or equivalent.

GRMN3102 Intermediate German Language 2  
Unit Value: 10  
The aim of this program is to improve all four of the essential language skills: listening, speaking, reading and writing. Writing skills will be given more prominence than in CONTINUING GERMAN. Many exercises are open-ended, and students will be expected to improve their own individual level of competence in all four skills.  
Assumed Knowledge: GRMN3101 or equivalent

GRMN3131 Contemporary German Texts  
Unit Value: 10  
The course familiarises students with a number of outstanding twentieth-century texts of various genres (prose, drama, poetry, film) and thus introduces them to the major aspects of German literature of the last hundred years.  
Assumed Knowledge: GRMN1002 or equivalent.

GRMN3132 Classic German Texts  
Unit Value: 10  
The course familiarises students with a number of outstanding pre-twentieth century texts of various genres (prose, drama, poetry, film) and thus introduces them to the major aspects of early modern German literature.  
Assumed Knowledge: GRMN3131 or equivalent.

GRMN3261 Advanced German: Language through the Media 1  
Unit Value: 10  
The aim of this course is to improve all four of the essential language skills, i.e. listening, speaking, reading, and writing. The last skill of writing will be given more prominence than in INTERMEDIATE GERMAN. Many exercises are open-ended, and you will be expected to improve your own individual level of competence in all four skills.  
Assumed Knowledge: 20 units at 2000 level in German or the equivalent.

GRMN3262 Advanced German: Language through the Media 2  
Unit Value: 10  
The aim of this course is to improve all four of the essential language skills, i.e. listening, speaking, reading, and writing. The last skill of writing will be given more prominence than in INTERMEDIATE GERMAN. Many exercises are open-ended, and you will be expected to improve your own individual level of competence in all four skills.  
Assumed Knowledge: GRMN3261 or equivalent

GRMN3261 Advanced German Text Study 1  
Unit Value: 10  
This course familiarises students with the advanced study of texts in German. Students will engage in close reading of texts exemplifying movements in German literature and providing further insights into sociohistorical contexts.  
Assumed Knowledge: 20 units at 2000 level in German or the equivalent.

GRMN3271 Advanced German Text Study 2  
Unit Value: 10  
This course familiarises students with the advanced study of aesthetic texts in German. Students will engage in close reading of aesthetic texts exemplifying movements in German literature and providing further insights into sociohistorical contexts.  
Assumed Knowledge: GRMN3271 or equivalent

GRMN4015 German Honours 1  
Unit Value: 20  
This course provides an opportunity for students to acquire a deeper knowledge and understanding of German language, culture, thought and literature.  
Assumed Knowledge: Academic staff of level A and above will supervise Honours research work and conduct seminars according to their expertise and availability. Six teaching hours per week.

GRMN4016 German Honours 2  
Unit Value: 20  
This course provides an opportunity for students to acquire a deeper knowledge and understanding of German language, culture, thought and literature.  
Assumed Knowledge: A successfully completed major in German with credits or above at 3000 level, or equivalent. Entry is restricted to students who have completed the requirements for admission to the degree of BA or equivalent.

GRMN4017 German Honours 3  
Unit Value: 20  
This course provides an opportunity for students to acquire a deeper knowledge and understanding of German language, culture, thought and literature.  
Assumed Knowledge: A successfully completed major in German with credits or above at 3000 level, or equivalent. Entry is restricted to students who have completed the requirements for admission to the degree of BA or equivalent.
**GRMN4018  German Honours 4**

**Unit Value:** 20

This course provides an opportunity for students to acquire a deeper knowledge and understanding of German language, culture, thought and literature.

Students are expected to improve their language skills to such a level that they can participate in mainstream programs in a university in the German speaking countries (i.e., not German as a foreign language programs) and read with ease German language secondary material in their chosen area. The language level is equal to that of the official German examination Zertifikat Deutsch als Fremdsprache.

Students will undertake directed reading in their chosen course areas and are expected to develop the ability to formulate their own understanding of their reading and the content treated in seminars, which will lead either to the submission of a well-constructed and argued mini-thesis or a substantial translation with reasoned commentary.

Use will be made of various media to provide information on German culture and society. Students may take part of their honours study at a German-language university on one of the University’s exchange programs.

**Assumed Knowledge:** A successfully completed major in German with credits or above at 3000 level, or equivalent. Entry is restricted to students who have completed the requirements for admission to the degree of BA or equivalent.

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**HIST1010  Foundations of Australian Society**

**Unit Value:** 10

Surveys the development of colonial Australia until the time of Federation. The subject will be divided into different sections, which will consider the foundation of Australia, its political, economic and social development from convict colony to nation, and life in nineteenth-century Australia. Some specific topics to be considered include Aboriginal society, convictism, the growth of Australian political institutions, the bush legend, and life in nineteenth-century Australian cities.

Contact hours: 3 hours per week

**Assumed Knowledge:** None

**HIST1020  Australia in the Twentieth Century**

**Unit Value:** 10

A survey of Australian history in the twentieth century. The main themes of social, economic and political history will be studied along with Australia’s development of international relations. Students will have ample opportunity to specialise in areas of interest.

**Assumed Knowledge:** None

**HIST1030  Introduction to Modern East Asia**

**Unit Value:** 10

An introduction to the history of East Asia, with reference to China, Japan and Korea. It aims to provide students with a broad base of general knowledge of East Asia within a thematic rather than narrative structure, and focuses on socio-cultural as well as on economic, political and international aspects of these societies’ histories. The course focuses on developments in the last two centuries in particular. It aims to highlight both the processes of transition from tradition to modernity and beyond, and the variations and contrasts in these processes among the nations under consideration.

It also aims to familiarise the students with some of the theoretical and analytical tools that they will encounter in history and the Humanities.

**Assumed Knowledge:** None

**HIST1050  Medieval and Early Modern Europe**

**Unit Value:** 10

Explores the medieval and early modern world from the fall of the Roman Empire in the West to European expansion into the Americas. The course will be divided into three periods: early medieval, high and late middle ages, and the early modern world. While roughly adhering to a chronological structure, the overall approach will be thematic. Thus, the early middle ages will introduce the themes which will be continued and expanded in the later periods, namely the role of the Christian Church in politics and society, the emergence of the modern state, trends in education and learning, interaction between Europe and other cultures through invasion and colonisation, and the evolution of marriage and the family. Students will learn how to evaluate the events, people and ideologies constituting this colourful period of European history.

**Assumed Knowledge:** None

**HIST1060  Modern European History**

**Unit Value:** 10

Studies the history of Europe from the unification of Germany in the nineteenth century to the origins of the Cold War. The course will concentrate on Germany with forays into French, Russian and Spanish history. Students will be expected to read a selection of works by historians of different backgrounds and political persuasions.

Contact hours: 3 hours per week

**Assumed Knowledge:** None

**HIST3000  American History to the Civil War**

**Unit Value:** 20

Surveys the early seventeenth century through to 1877, emphasising the period from the Revolution to the Civil War. As well as considering the achievements and failures of “great men” such as Thomas Jefferson and Abraham Lincoln, this course examines the aspirations and accomplishments of “ordinary” Americans, including Indians, African Americans and women. All the while the course considers the increasingly bitter contest between the agrarian South and the industrialising North that culminated in the Civil War of 1861-65. This course concludes with a look at the Civil War, which ended slavery and preserved the union, but which failed to solve the “Negro problem.”

**Assumed Knowledge:** 20 units in History at 100 level or equivalent.

**HIST3020  The Vietnam War**

**Unit Value:** 10

Examines the Vietnam War, a conflict that can be traced to French colonisation during the nineteenth century, but which reached its climax during the Cold War of the 1950s and 1960s when first the French and then the Americans struggled unsuccessfully to thwart Vietnamese nationalism. Topics include: French colonialism in Vietnam, America’s road to involvement, the Americans and Vietnamese at war, the media and the War, the antiwar movement, the impact of the War on Vietnamese society, Ho Chi Minh and Vietnamese nationalism and communism, Richard Nixon and Vietnam, and the War’s legacies.

**Assumed Knowledge:** 20 units in History at 1000 level or equivalent.
Covers the history of China from the decline of the Qing Empire in the nineteenth century to the 1989 Tiananmen Square incident. It aims to familiarise students with the turbulent development of the modern Chinese nation, and to encourage them to explore patterns of government, socio-cultural issues, revolutionaries processes and popular movements in imperial, pre-Revolutionary and post-1949 China. It also encourages students to refine their skills in historical research, text analysis, writing and presentation skills.

**Assumed Knowledge:** 20 units of History at first year level or equivalent.

**Unit Value:** 20

**HIST3200**

Hst of Aus Foreign Relations: Aus & the great powr

Traces the foreign relations of Australia with its neighbours in the Asia-Pacific region. The period of review is from Australian settlement, although there is an introduction to European colonisation, to the current debate surrounding 'Australia as an Asian nation'.

**Assumed Knowledge:** 20 units in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3220**

Issues in Australian History

Takes an in-depth look at specific issues in Australian history that have provoked debate and controversy. The aim is to take a considered look at historical debates surrounding these issues, consider some of the relevant primary sources, and discuss the theoretical and political context to contemporary developments in the study of Australian history. The course provides students with an overarching knowledge of historical debates, while also encouraging the development of the skills of researching, writing, and evaluating historical arguments. The idea that the Australian past is the subject of debate and contestation will be introduced in a challenging yet enjoyable fashion.

**Assumed Knowledge:** 20 units in History at 1000 level or equivalent.

**Unit Value:** 20

**HIST3240**

Childhood in Australia

Begins with an introduction to the historiographical debates of the history of Australian childhood. It then explores the nature of child life and the experience of growing up in colonial and post-colonial Australia between the 1880s and about the 1960s, with consideration to provisions made for formal education and socialisation by various State and private agencies. Discussion will be organised around changing patterns and notions of child-rearing and child-care, the childhood experience in rural and urban communities at various times and the development of youth movements between the 1880s and 1950s. A particular, but not exclusive, focus will be maintained on marginalised children's experiences and problematic youth. Consideration throughout the course will be given to the analysis and interpretation of various primary and secondary source documents.

**Assumed Knowledge:** 20 units in History at 1000 level or equivalent.

**Unit Value:** 20

**HIST3270**

Crime and Punishment in Europe

The course has three principal strands: the meaning and incidence of ‘crime’, the administration of justice, and penal policy. These areas will be studied under several centuries, and especially 1500-1800, a crucial phase in European history which encompassed the Protestant Reformation, state formation, the transformation of the 'public sphere', and the development of urban-industrial societies. Two prevailing historiographical issues will be considered. First, what were the social agencies for ‘public sphere’, and the development of urban-industrial societies. Two prevailing historiographical issues will be considered. First, what were the social agencies for

**Contact hours:** 2 hours per week

**Assumed Knowledge:** 20 units in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3430**

Napoleon Bonaparte

This course will introduce students to a number of important historical problems relating to Napoleon and his times. These problems will not only elucidate the character of one of the most fascinating, complicated and influential figures in modern history, but will help students to understand the nature of France and Europe at the beginning of the nineteenth century. Students will be expected to read a selection of works by historians of different backgrounds and political persuasions.

**Contact hours:** 2 hours per week

**Assumed Knowledge:** 20 units in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3450**

The Russian Revolution

Deals with twentieth-century Russia, particularly the Russian Revolution and the history of the Soviet Union. Students will consider the social, economic and political conditions which made Russia ripe for Revolution, the events of 1917, the Civil War, Stalin’s dictatorship, the Cold War years, and the collapse of the Soviet system.

**Assumed Knowledge:** 20 credit points in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3460**

Early Modern Europe

The sixteenth and seventeenth centuries are often claimed by historians to represent the transition between the medieval and modern worlds. Beginning with the Renaissance and Reformation, the era was characterised by intellectual, religious and political upheaval, which affected all levels of society, not only the elites. Through lectures, tutorials and a particular emphasis on primary documents, students will examine not only the great events of this era, but will also delve below the surface to discuss the impact of these changes on the lives of ordinary men and women.

**Assumed Knowledge:** 20 credit points in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3490**

History of Australian Sport

Considers the history of sport in the modern world, but with particular reference to Australia. It will consider the origins of organised games in the Ancient world through an examination of the Ancient Olympics, while detailing the history of sport in the pre-industrial and post-industrial societies. Finally, the course will shift its focus to Australia. In the Australian context the course will consider the rise of modern sports in the nineteenth and twentieth centuries, and will examine some of the legends and controversies of Australia’s sporting past. The final section of the course will consider a number of problems and controversies in the modern world, and provide an historical perspective on the origins and nature of these issues.

**Contact hours:** 2 hours per week

**Assumed Knowledge:** 20 credit points in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3630**

Chivalric Society

Covers the transformation of northern European society from what has been seen as a ‘chivalric’ to a ‘courly’ mode in the course of the twelfth to the fifteenth centuries. It will provide a broad introduction to the secular history of later medieval society. Topics to be investigated include the rise of the dynasties which emerged in the campaigns of the Hundred Years War and the aristocratic lifestyle of warfare, hunting, tournaments, chivalry, castles and conspicuous consumption enjoyed by the combatants. The course will examine the fracturing of the medieval order during the fourteenth century under the multiple agencies of war, disease and heresy. Students will be encouraged to read original sources in translation and to make use of the quality sources now available on the internet.

**Assumed Knowledge:** 20 credit points in History at 100 level or equivalent.

**Unit Value:** 20

**HIST3640**

Fascism, War and Genocide, 1900-1945

Deals with the most violent age in European history, 1900-1945. Why did the period following the First World War see the rise of Mussolini and Hitler? Why were European societies polarised by extremist ideologies of the left and the right? What links were there between fascist repression and militarist expansionism? How do we explain the genocidal impulses of the 1940s? This subject takes an in-depth look at Nazi Germany and Fascist Italy. It looks at the economic, social and political forces that gave rise to fascism, its methods of rule, and its drive to total warfare, particularly on the Soviet front. In this context, it also looks at the debates concerning the Jewish Holocaust and differing interpretations of Fascism and its representations.

4 hours of student contact per week (lectures, tutorial); internal mode.

**Assumed Knowledge:** 60 units of any group A subject at 100 level including at least 20 units of History.

**Unit Value:** 20

**HIST3650**

War and Australian Society

This subject examines the history, influence and experience of war in Australian society from the time of European arrival until the present day.

2 student contact hours per week (lecture and tutorial); internal delivery

**Assumed Knowledge:** 60 units of any group A subject at 100 level including at least 20 units of History.

**Unit Value:** 20

**HIST4050**

History Honours I

This subject examines the history, influence and experience of war in Australian society from the time of European arrival until the present day.

2 student contact hours per week (lecture and tutorial); internal delivery

**Assumed Knowledge:** 60 units of any group A subject at 100 level including at least 20 units of History.

**Unit Value:** 20

**HIST4050** must be studied in conjunction with HIST4060, HIST4070, and HIST4080; which together comprise the full History Honours programme. History Honours is the culmination of undergraduate teaching in the discipline of history. It provides for students who have distinguished themselves in history at 100-300 level and wish to explore advanced approaches in the context of detailed historical studies. As such, it forms an introduction to the world of international scholarship and research. The Honours programme in history is also intended to develop and strengthen writing and research skills, challenge students intellectually and round off undergraduate studies with high expectations which will be used in many fields of endeavour. The principal teaching style will be through seminar studies and thesis supervision.

**Assumed Knowledge:** At least a credit average performance in History courses as a major sequence for the BA. Students must have qualified for admission to the BA or equivalent degree.
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Assumed Knowledge: nil

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Assumed Knowledge: nil

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Assumed Knowledge: nil

Assumed Knowledge: nil

Assumed Knowledge: nil

Assumed Knowledge: nil

Assumed Knowledge: nil
HUBS1405B Human Bioscience 1A (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Provides students of occupational therapy with a foundation study in the life sciences, with emphasis on human physiology at cellular and systems levels. This provides the basis for the development of a more profession-specific subject in Year 2.
Assumed Knowledge: nil

HUBS1407 Human Bioscience 1 (Nursing)
Unit Value: 10
Introduces students undertaking degree program in Nursing to the processes of life and how they are executed by cells, tissues, organs and systems of the human body. Students learn to understand the fundamental functions and structure of the processes of life at the molecular, organ and systems level.
Contact hours: 4 hours per week
Assumed Knowledge: nil

HUBS1408 Sports Science 1A
Unit Value: 10
Provides a foundation study in the life sciences with particular emphasis on human anatomy and physiology. This provides the basis for subsequent development of performance-related sports science courses.
Assumed Knowledge: nil

HUBS1410 Occupational Health 1
Unit Value: 10
Provides an integrated introduction to human anatomy, physiology and biochemistry. Covers three strands including an introduction to the cell and basic cellular chemistry, an introduction to the processes of assimilation, transport, respiration, excretion, information transfer and movement and an introduction to the life processes of the defence mechanism of the body, reproduction, growth and decline.
Assumed Knowledge: nil

HUBS1501 Motor Development
Unit Value: 5
Examines the interaction between the biological processes of growth and development and environmental factors in shaping fundamental movement patterns in childhood.
Assumed Knowledge: N/A

HUBS1502 Philosophical Foundations of PhysEd & Sport
Unit Value: 5
Introduces students to the historical and philosophical basis of physical education and sport in our society. It also encourages students to develop their personal values and beliefs related to physical activity across the lifespan.
Contact hours: Up to 2 one hour lectures and up to 1 hour tutorial per week
Assumed Knowledge: N/A

HUBS1503 Physical Education Kinetics 1A
Unit Value: 10
Students will be introduced to a range of core physical activities that may include areas of aquatics, dance and basic game applications.
Assumed Knowledge: N/A

HUBS1504 Physical Education Kinetics 1B
Unit Value: 5
Students will be introduced to the fundamental movement skills underpinning efficient motor skill execution. Also, students will examine skills and strategies related to traditional invasion games.
Assumed Knowledge: N/A

HUBS2010 Human Bioscience 2 (Nursing)
Unit Value: 10
Builds on three main themes, namely, Cardiovascular Dynamics, Neurology and Development, Differentiation & Inheritance. It covers the anatomy, physiology, pharmacology and biochemistry of these themes and relates this information to the clinical setting. The content is provided by way of lectures and tutorials as well as information that will be made available on the WEB via Blackboard.
The course will be delivered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2
Assumed Knowledge: Knowledge obtained in HUBS1407

HUBS2101 Human Anatomy, Physiology and Pathology IIA
Unit Value: 10
The Anatomy component addresses the anatomical and physiological basis of organ imaging and organ relationships. Emphasis is placed on organ physiology and anatomy using an “outside in approach”. Unlike traditional anatomy subjects, students are encouraged to develop a thorough 3-dimensional and cross-sectional knowledge of the body’s organs and their projections on palpable surface landmarks.
The Pathology component provides a basic understanding of the mechanisms of disease.
The course will build on the student’s prior knowledge of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the most is drawn from these sessions.
Assumed Knowledge: HUBS103 and HUBS104,

HUBS2101A Human Anatomy and Physiology II (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Addresses the anatomical and physiological basis of organ imaging and organ relationships. Emphasis is placed on organ physiology and anatomy using an “outside in approach”. Unlike traditional anatomy subjects, students are encouraged to develop a thorough 3-dimensional knowledge of the body’s organs and their projections on palpable surface landmarks.
Contact hours: 2 hours of lectures per week
Assumed Knowledge: HUBS 103

HUBS2101B Human Anatomy and Physiology II (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Addresses the anatomical and physiological basis of organ imaging and organ relationships. Emphasis is placed on organ physiology and anatomy using an “outside in approach”. Unlike traditional anatomy subjects, students are encouraged to develop a thorough 3-dimensional knowledge of the body’s organs and their projections on palpable surface landmarks.
Contact hours: 2 hours of lectures per week
Assumed Knowledge: HUBS 103

HUBS2102 Human Anatomy, Physiology and Pathology IIB
Unit Value: 10
The Anatomy component addresses the anatomical and physiological basis of organ imaging and organ relationships. Emphasis is placed on organ physiology and anatomy using an “outside in approach”. Unlike traditional anatomy subjects, students are encouraged to develop a thorough 3-dimensional and cross-sectional knowledge of the body’s organs and their projections on palpable surface landmarks.
The Pathology component addresses the processes by which diseases occur, with application of these principles in specific systems based pathology. The course will build on the student’s prior knowledge of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the most is drawn from these sessions.
Assumed Knowledge: HUBS103 and HUBS104

HUBS2201A Biochemistry II (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
The course deals with the biochemistry of carbohydrates, lipids, proteins, vitamins, and enzymes as well as carbohydrate metabolism, energy metabolism and lipid or protein metabolism. Integration of the above knowledge provides a basis for understanding the nutritional management of disease states.
Assumed Knowledge: Completion of HUBS1401, HUBS1402, NUD11402 and NUD2220.

HUBS2201B Biochemistry II (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully undertaken before commencing Part B.
The course consists of two sections. The first section deals with the basic concepts of bioenergetics and the control of energy utilization and transfer in cells. The structure, synthesis, degradation and function of nucleotides is covered. This leads to the examination of the structure and function of DNA and RNA. The second section concentrates on cell-to-cell communication and is aimed at providing an understanding of the mechanisms and the molecules, specifically hormones, that are involved in the process of relaying messages between cells.
Assumed Knowledge: Completion of HUBS1401, HUBS1402, NUD11402 and NUD2220
HUBS2401 Human Biosciences 2A (Nursing)  
Unit Value: 5
This subject examines the following areas:
1. The composition of body, emphasising water, electrolytes, proteins, lipids, gases, acids and bases and mastering the basic concepts of concentration, tonicity and pH.
2. The distribution of body fluids, emphasising the need for circulation in order to obtain substrates from the gastrointestinal tract (GIT) and lungs, to remove waste products through the lungs, GIT and kidneys, and to supply tissues.
3. The control of body fluids and their constituents both by physiological and pharmacological means, focussing on the control of the cardiovascular system to ensure distribution, haemostasis to ensure integrity of the circulation, the kidneys to ensure water and electrolytes concentration, the lungs to ensure concentration of gases, the lungs and kidneys to ensure acid-base balance, and the GIT and endocrine systems to ensure the concentrations of proteins, lipids, and minerals.
4. The control of body fluids under conditions of altered demand short of frank disease, using examples of exercise, fever, shock, dehydration, vomiting, and diarrhoea.
5. The human reproductive physiology involved in the process of conception, the physiological changes that have occurred in the mother and embryo during the period of pregnancy and culminate in the birth of a new individual.
Classes will be held at Gosford Hospital in semester 2.
Contact hours: 3 hours per week
Assumed Knowledge: Students are assumed to have completed HUSB105 (Human Bioscience 1)

HUBS2402 Human Biosciences 2B  
Unit Value: 5
This course is limited to students enrolled in the B. Nursing course.
Provides learning in applied Human Bioscience pertinent to the course of second year clinical instruction for students in the School of Nursing and Midwifery. This course provides integrated basic science instruction in the areas of Neurology, Growth and Differentiation; Cancer; and Medical Genetics. In order to emphasise its importance in students’ professional development, these basic science concepts are presented in clinical context, including links with the course Nursing Practice 2B (NURS2101). Classes are held at the Callaghan campus in Semester One and Gosford Hospital site in Semester Two.
The major mode of delivery is Internal.
Assumed Knowledge: HUSB1407 (HUSB105) - Human Bioscience 1 (Nursing)  
HUSB2401 (HUSB2009) - Human Bioscience 2A (Nursing)

HUBS2403 Cellular and Molecular Science - Part 1  
Unit Value: 20
Provides students with knowledge and understanding of the structure and function of the cells with an emphasis on molecular aspects. Involves integrated learning within and between the disciplines of Biochemistry, Nutrition, Immunology, Molecular Biology, Microbiology and Genetics and complements HUSB2404.
Assumed Knowledge: Contents of HUSB1401-Human Bioscience 1A, HUSB1402-Human Bioscience 1B, and HUSB1201 Biomolecular Analysis.

HUBS2404 Cellular and Molecular Science - Part 2  
Unit Value: 20
This course complements HUSB2403 (HUSB222). Students will learn about the functional diversity of cells, illustrated by individual cell types and exemplified by physiological/pathological modifications.
Assumed Knowledge: HUSB2403 (HUSB222)

HUBS2405 Human Structure and Function Part 1  
Unit Value: 20
Human Structure and Function provides integrated learning within and between the Disciplines of Anatomy, Human Physiology and Pharmacology. The anatomical structure of man is studied from the macroscopic level (including practical classes in musculoskeletal and visceral gross anatomy) through to histological and electron microscopic structure of cells, tissues and organs. This learning is closely linked to studies of the physiological functions of man (behaviour to molecular interactions), and how such functions are regulated. Attention is focussed on how disturbed function can be manipulated to restore homeostasis by pharmacological and other means. The general principles of drug action at the molecular and cellular level will be introduced, together with the actions, uses and side effects of drugs acting on major organ systems. This subject is structured primarily on the systems of the human body, but also addresses the behaviour of the whole organism in favourable or hostile environments, e.g., at rest and during exercise at high altitude, arid conditions, marine conditions and in space. Attention will be drawn to aspects of systems development, and to functional differences due to gender, age, race and disease entities.
Contact hours: 5 hrs. lectures, 2 hours tutorials and 5 hours of lab sessions each week.
Assumed Knowledge: HUSB101 and HUSB102

HUBS2406 Human Structure and Function Part 2  
Unit Value: 20
Human Structure and Function provides integrated learning within and between the Disciplines of Anatomy, Human Physiology and Pharmacology. The anatomical structure of man is studied from the macroscopic level through to histological and electron microscopic structure of cells, tissues and organs. This learning is closely linked to studies of the physiological functions of man (behaviour to molecular interactions), and how such functions are regulated. Attention is focussed on how disturbed function can be manipulated to restore homeostasis by pharmacological and other means. The general principles of drug action at the molecular and cellular level will be introduced, together with the actions, uses and side effects of drugs acting on major organ systems. This subject is structured primarily on the systems of the human body, but also addresses the behaviour of the whole organism in favourable or hostile environments, e.g., at rest and during exercise at high altitude, arid conditions, marine conditions and in space. Attention will be drawn to aspects of systems development, and to functional differences due to gender, age, race and disease entities.
Comparative function between species will be examined to illuminate theories of evolutionary adaptation in man to hostile environments. A problem based learning model is central to this subject: each topic will occupy a week of study initiated by a topic tutorial complemented with lectures and a student-centred seminar.
Assumed Knowledge: That embodied in HUSB224

HUSB2501 Skill Acquisition  
Unit Value: 5
Introduces students to the variables that influence an individual’s acquisition and performance of motor skills.
Assumed Knowledge: HUSB1501 and HUSB1502

HUSB2504A Human Bioscience IIA (Part A)  
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Aims to assist the student to gain an understanding and knowledge of the functional organisation and integration of both the nervous system and cardiovascular system in relation to the regulation of the musculoskeletal system in particular. This subject will provide the student with the direction and resources necessary to acquire knowledge of the principle neural mechanisms involved in the control and maintenance of body functions with particular emphasis on sensory-motor integration and behaviour and the physiology of activity and exercise with a focus on its use as a therapeutic tool.
Assumed Knowledge: Satisfactory to achieve a passing grade in Human Bioscience I A (HUSB 104) offered at University of Newcastle

HUSB2504B Human Bioscience IIA (Part B)  
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Aims to assist the student to gain an understanding and knowledge of the functional organisation and integration of both the nervous system and cardiovascular system in relation to the regulation of the musculoskeletal system in particular. This subject will provide the student with the direction and resources necessary to acquire knowledge of the principle neural mechanisms involved in the control and maintenance of body functions with particular emphasis on sensory-motor integration and behaviour and the physiology of activity and exercise with a focus on its use as a therapeutic tool.
Assumed Knowledge: Satisfactory to achieve a passing grade in Human Bioscience I A (HUSB 104) offered at University of Newcastle

HUSB2505A Human Physiology (Part A)  
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Provides in-depth studies of physiology in areas essential to dietitians. Topics include gastrointestinal, renal, cardiovascular, respiratory and exercise physiology as well as physiological processes in taste, smell, immune factors and metabolism. The regulatory roles of the nervous and endocrine systems are addressed throughout topic areas.
Assumed Knowledge: That embodied in the HUSB course to date.

HUSB2505B Human Physiology (Part B)  
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Provides in-depth studies of physiology in areas essential to dietitians. Topics include gastrointestinal, renal, cardiovascular, respiratory and exercise physiology as well as physiological processes in taste, smell, immune factors and metabolism. The regulatory roles of the nervous and endocrine systems are addressed throughout topic areas.
Assumed Knowledge: That embodied in the HUSB course to date.
HUBS2509 Physical Education Kinetics 2A

Unit Value: 10

Students will apply movement principles to a range of physical activities that may include gymnastics, racquet sports and outdoor educational pursuits.

Assumed Knowledge: HUPH105 and HUPH106

HUBS2510 Physical Education Kinetics 2B

Unit Value: 5

Students will be introduced to a range of striking/fielding sports as well as traditional invasion games.

Assumed Knowledge: HUPH105 and HUPH106

HUBS2511 Sport Performance

Unit Value: 5

Examines human behaviour in sport settings and identifies the psychological factors that impact on human performance.

Assumed Knowledge: HUBS1501 and HUBS1502

HUBS2512 Neuroscience for Speech Pathology

Unit Value: 10

Covers the principal mechanisms involved in the control and maintenance of body functions, particularly in regard to sensory-motor integration involved in speech and language.

Assumed Knowledge: Satisfactory completion of Human Bioscience 1A (HUBS1401) and Anatomy for Speech Pathology (HUBS1102) offered at University of Newcastle or its equivalent.

HUBS2513 Exercise Physiology

Unit Value: 10

This course examines aspects of general physiology important during exercise and introduces students to exercise physiology. It covers both theoretical knowledge and the development of basic skills in exercise testing. The physiological responses to a bout of exercise are examined first, followed by principles of exercise training, and an examination of adaptations to exercise training.

Assumed Knowledge: HUBS1408 (HUBS106) Sports Science 1A or equivalent.

HUBS2514 Primary Kinetics 1

Unit Value: 10

This elective subject examines the programming of Team Sports in the Primary K-6 curriculum. Effective coaching strategies will be examined to enhance student performance.

Assumed Knowledge: BEHM200

HUBS2515 Primary Kinetics 2

Unit Value: 10

This elective subject examines a range of individual practical pursuits that are incorporated in the Physical Education domain of the K-6 syllabus. Emphasis is given to promoting healthy lifestyles especially through recreational (non-competitive) practical activities.

Assumed Knowledge: BEHM200

HUBS2516 Movement and Dance in the Primary School

Unit Value: 10

Students will develop skills in dance and movement performance and composition. They will gain an understanding of methods of integrating movement and dance with other creative arts activities and with other areas of the primary curriculum.

Contact hours: 3 hours per week

Assumed Knowledge: Professional Preparation 1A and 1B or equivalent

HUBS3010 Human Bioscience 3 (Nursing)

Unit Value: 10

Provides instruction in applied Human Bioscience pertinent to the course of third year clinical education for students in the School of Nursing and Midwifery. The course provides relevant information on physiology, pathophysiological processes and pharmacology within the three main themes of Neurology, Systems Failure and Immunology and Microbiology. The information is related closely to the clinical setting.

The content is provided by way of lectures and tutorials as well as information that will be made available on the Web via Blackboard.

Assumed Knowledge: Knowledge obtained in HUBS1407 (HUBS1050) and HUBS2010.

HUBS3101A Sectional Anatomy (Part A)

Unit Value: 5

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

The third year course in cross-sectional anatomy is conducted over two semesters. In the first semester, students will take a series of lectures and demonstrations recapitulating the three dimensional anatomy of the trunk and neck with the view to learning how to derive and draw from memory sections (transverse, coronal and sagittal) of the trunk and neck. In the second semester, students will undertake a series of lectures and demonstrations on detailed anatomy of the head, aiming finally to be able to predict, draw and interpret sections of the head.

Contact hours: 2 hours per week in 1st Semester and 3 hours per week in 2nd Semester

Assumed Knowledge: It is assumed that students have passed and completed ANAT203.

HUBS3101B Sectional Anatomy (Part B)

Unit Value: 10

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

The third year course in cross-sectional anatomy is conducted over two semesters. In the first semester, students will take a series of lectures and demonstrations recapitulating the three dimensional anatomy of the trunk and neck with the view to learning how to derive and draw from memory sections (transverse, coronal and sagittal) of the trunk and neck. In the second semester, students will undertake a series of lectures and demonstrations on detailed anatomy of the head, aiming finally to be able to predict, draw and interpret sections of the head.

1 hours per week

Assumed Knowledge: It is assumed that students have passed and completed ANAT203.

HUBS3103 Advanced Neuroanatomy

Unit Value: 10

Provides students with an opportunity to study in detail the structure of the human brain. In the first half of the subject, the students’ learning will be based around the complete dissection of a human brain and spinal cord. Emphasis is on the various connections and function of major brain structures. The subject will expose students to some of the latest techniques used in both basic and clinical research to examine neurons, receptors, various proteins and connections between nerve cells. It will also include sessions which emphasise current techniques used to image brain structures, such as radiographs, CT scans, MRIs and PET scans.

Contact hours: 1 hour lecture and 2 hours lab sessions per week

Assumed Knowledge: Completion of Year 2 of the Bachelor of Biomedical Science Degree Course, or equivalent.

HUBS3104 Motor Control Neurobiology

Unit Value: 10

The subject will first consider the important regions of the brain and spinal cord involved in the control of movement. This will be followed by a series of lectures and practicals on the effector systems involved in the generation of movement. The subject will include a treatment of movement control at both somatic (voluntary) and autonomic (involuntary) effector systems and will be centered around some of the classic experimental work that has contributed to our current understanding of the neural control of movement.

Contact hours: 1 hour lecture per week and 2 hours lab session per week.

Assumed Knowledge: Completion of Year 2 of the Bachelor of Biomedical Science Degree Course or equivalent.

HUBS3201 Mol Neurosc

Unit Value: 10

Provides students with knowledge of the molecular events underlying the release and reception of neurotransmitters. The effect of social, prescribed and street drugs on these processes and the abnormalities that occur in pain, dementia, depression, psychosis, anxiety and stroke will be considered.

Contact hours: 6 hours per week

Assumed Knowledge: Previous subjects in the Bachelor of Biomedical Science degree

HUBS3203 Cancer Biology

Unit Value: 10

Students will gain an understanding of the basic biology of cancer and metastasis, methods for diagnosing cancer and current and novel treatment and prevention strategies. In addition, students will be introduced to the academic, technical and organizational skills necessary to carry out different facets of cancer research and will gain an appreciation of how research can lead to the effective diagnosis and treatment of this disorder.

Assumed Knowledge: Contents of HUBS2403 (HUBS222), HUBS2404 (HUBS223), HUBS2405 (HUBS224), HUBS2406 (HUBS225) and HUBS3404 (HUBS322).
HUBS3204 Laboratory Professional Skills
Unit Value: 10
Provides an introduction to skills required in laboratories that are not the technical skills provided by practical classes in traditional academic courses. Emphasis will be on providing an overview of the purposes, organisation, operation and output of different types of laboratories. There is also an emphasis on the commercialisation of intellectual property derived from laboratory investigations.
Assumed Knowledge: Completion of Year 2 of Bachelor of Biomedical Science course, or Bachelor of Biotechnology course, or equivalent.

HUBS3301 Human Genetics
Unit Value: 10
This subject is taught in Semester 2, including a one week full time practical during the semester break.
Aims at teaching undergraduate students the basics of genetic linkage. It involved familiarization of the linkage programs developed by Mark Lathrop and Jurg Ott. The subject reinforces basic linkage analysis described in 2nd year and allows that student to biomedical science sub-discipline of Neuroscience. The objective of this subject is to provide the student with knowledge, understanding and laboratory experiences concerning neuronal plasticity.
Assumed Knowledge: This course is offered to students who are not in normal sequence (i.e., may be repeating students) and only have to do '3A'. It is expected that students will have completed HUBS1407, HUBS2401 and HUBS2402.

HUBS3401 Human Bioscience 3A (Nursing)
Unit Value: 5
Provides a course of instruction in applied Human Biology pertinent to the course of clinical instruction for students in the School of Nursing and Midwifery. This course has been planned in conjunction with Nursing to provide relevant information on physiological and patho-physiological processes. Thus, the objectives are to render students of nursing competent in the elements of renal pathology and failure, microbiology, immunology and some representative diseases of the endocrine and immune systems. Classes will be held at Callaghan (Semester 1).
Assumed Knowledge: This course is offered to students who are not in normal sequence (i.e., may be repeating students) and only have to do '3A'. It is expected that students will have completed HUBS1407, HUBS2401 and HUBS2402.

HUBS3402 Human Bioscience 3B (Nursing)
Unit Value: 5
Provides a course of instruction for students in their final semester of the Bachelor of Nursing. This course has been planned in conjunction with the School of Nursing and Midwifery to provide relevant information on the course areas of Pharmacology and Systems Failure. Classes will be held at Callaghan (Semester 2) and Gosford Hospital (Semester 1).
Assumed Knowledge: Successful completion of Bachelor of Biomedical Science (Newcastle) Years 1 and 2.

HUBS3403 Neuroscience
Unit Value: 10
The purpose of this subject is to build on the student's previous learning in the biomedical science sub-discipline of Neuroscience. The objective of this subject is to provide the student with knowledge, understanding and laboratory experiences concerning neurological and neuropsychological processes concerning neuronal gene expression, the blood brain barrier, brain metabolism, neurotransmitters in the central nervous system, topographical organisation of the central nervous system and neuronal plasticity.
Assumed Knowledge: Successful completion of Bachelor of Biomedical Science course or equivalent.

HUBS3404 Advanced Cell and Molecular Science
Unit Value: 10
Involves integrated learning within and between the disciplines of Biochemistry, Nutrition, Immunology, Microbiology, Genetics and Molecular Biology. Students will learn about the structure and function of cells with emphasis on the molecular aspects of regulation. They will also learn about the disciplines in relation to human function.
Contact hours: 6 hours per week
Assumed Knowledge: Completion of year 2 of the Bachelor of Biomedical Science Degree course or equivalent.

HUBS3405 Mammalian Growth and Development
Unit Value: 10
This course will provide students with knowledge and understanding of the cellular and physiological aspects of growth and development, with a strong emphasis on normal human embryology.
Assumed Knowledge: HUBS2405 (HUBS224) and HUBS2406 (HUBS225).

HUBS3406 Directed Study
Unit Value: 10
This subject is an elective, which can be chosen by students who are completing the Bachelor of Biomedical Science. It allows students the opportunity to gain knowledge and understanding of an approved topic of their choosing, and is designed for students interested in developing a specialist topic under the supervision of a member of academic staff. The approval of the supervisor, who has agreed formally to take responsibility for their directed study program, and the Course Management Committee, is required, and a detailed proposal indicating objectives and a work-plan is to be submitted. Students will undertake an approved and directed program of study in an area of biomedical science not covered by any of the available electives. As well as undertaking a program of readings and private study, students will be required to attend seminars and tutorials with their supervisor for 2 hours per week. Students will also be required to submit assignments and a final study report.
Contact hours: 2 hours per week
Assumed Knowledge: Year 2 of Bachelor of Biomedical Science Degree course, or equivalent.

HUBS3501 Human Physiology Laboratory Practice
Unit Value: 10
This subject will gain an understanding of a broad range of human physiological measurement procedures as well as practical experience in physiological function testing, equipment calibration and trouble shooting, test protocol selection, and other practical aspects of human physiological measurement.
Assumed Knowledge: HUBS224 and HUBS225 are recommended subjects. A thorough understanding of human physiology is necessary for this subject.

HUBS3502 PE Studies III
Unit Value: 10
Sport Sociology will examine sociological aspects of sport and physical activity, and the procedures and strategies used to enquire about the relationships between sociological factors and sport and physical activities. The sports coaching elective analyses the principles and practices of coaching. The adaptive and corrective physical education elective examines practical and/or theoretical applications for individuals with special needs in physical education.
Assumed Knowledge: HUPH101, HUPH104, HUPH204 and HUPH211

HUBS3504A PE Kinetics IIIA
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Assumed Knowledge: HUPH105, HUPH110, HUPH208, HUPH209

HUBS3504B PE Kinetics IIIB
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Assumed Knowledge: HUPH105, HUPH1206, HUPH208, HUPH209

HUBS3506 Rec Elecropharm
Unit Value: 10
Designed to give the student the basic knowledge of the pharmacological and electrophysiological manipulation to understand the structure-function relationship of Ligand-Gated Ion Channels in association with the diseases. There will be an emphasis on group and individual self-directed learning, as well as lectures from the experts in the field of mental health and supervised laboratory sessions. This course is mainly designed to have on hand experience with the animals and laboratory techniques, in addition students are going to have this opportunity to visit the James Fletcher hospital to give a human face to their experiments.
Assumed Knowledge: That embodied in the Bachelor of Biomedical Science program or equivalent to date.

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HUBS307 Neural Circulation Control
Unit Value: 10

This subject is a selective, which can be chosen by students who are completing their Bachelor of Biomedical Science Degree Course.

Provides students with an advanced knowledge and understanding of integrated control of the cardiovascular system with a strong focus on mammalian physiology including man. In addition they will be trained in experimental techniques. Reflex controls will be studied eg arterial baroreceptor control, arterial chemoreceptor control, nasopharyngeal control, and control by postural and respiratory reflexes. While this will be dealt with in a theoretical manner, part of the course will involve specific experiments in animals and humans to confirm current knowledge.  
Assumed Knowledge: That embodied in the HUBS course to date

HUBS308 SPORTS SCIENCE 3A
Unit Value: 5

Students will gain an understanding of exercise training program design and develop skills in a range of test procedures used to evaluate physical fitness and exercise training adaptations.

Assumed Knowledge: An understanding of exercise physiology is assumed. Students are expected to have successfully completed HUPH206 Sports Science 2A or an equivalent subject.

HUBS309 Sports Science 3B
Unit Value: 5

Students will gain skills in sports first aid including cardiopulmonary resuscitation. They will gain an understanding of the role of a sports trainer in sports injury prevention and management, and an understanding of the influence of ergonomic aids and ergolytic substances on sports performance. Students may choose to obtain formal Sports Medicine Australia Sports First Aid and Level 1 Sports Trainer accreditation at the completion of the program of study.

Assumed Knowledge: An understanding of exercise physiology of assumed. Students are expected to have successfully completed HUBS2508 (HUPH206) Sports Science 2A or an equivalent course.

HUBS310 Sports Science 4
Unit Value: 10

Students will gain an understanding of exercise training program design and develop skills in a range of test procedures used to evaluate physical fitness and exercise training adaptations.

In addition, students will gain an understanding of the influence of ergogenic aids and ergolytic substances on sports performance.

Assumed Knowledge: HUBS2513 - Exercise Physiology

HUBS3601 Antibody as an Analytical Tool
Unit Value: 10

Provides an understanding of the production and use of antibodies as analytical tools. The production of specific antibodies in experimental animals provides basic analytical tools for a wide variety of methods used in modern research and diagnostic laboratories. Such methodologies include, but are not limited to, ELISA assay, Western blotting, immunoprecipitation, magnetic cell sorting, flow cytometric cell sorting, immunofluorescence and immunohistochemistry.

Classes will be held in the David Maddison Building.

Assumed Knowledge: 20. Completion of Year 2 of Bachelor of Biomedical Science degree course or equivalent

HUBS401 Biomed Sci Honours 411
Unit Value: 20

The Honours Program provides students with advanced knowledge and skills in specialised areas of biomedical science and provides an introduction to research. The courses together comprise a program of approved supervised research. Candidates present a project report in the form of a thesis. The project report is also presented and defended orally. Candidates are required to submit an assignment on an approved topic and to attend seminars.

Assumed Knowledge: Bachelor of Biomedical Science course

HUBS402 Biomed Sci Honours 412
Unit Value: 20

The Honours Program provides students with advanced knowledge and skills in specialised areas of biomedical science and provides an introduction to research. The courses together comprise a program of approved supervised research. Candidates present a project report in the form of a thesis. The project report is also presented and defended orally. Candidates are required to submit an assignment on an approved topic and to attend seminars.

Mid year entry is also available for full time and part time students.  
Assumed Knowledge: Bachelor of Biomedical Science course

HUBS403 Biomed Sci Honours 413
Unit Value: 20

The Honours Program provides students with advanced knowledge and skills in specialised areas of biomedical science and provides an introduction to research. The courses together comprise a program of approved supervised research. Candidates present a project report in the form of a thesis. The project report is also presented and defended orally. Candidates are required to submit an assignment on an approved topic and to attend seminars.

Mid year entry is also available for full time and part time students.

Assumed Knowledge: Bachelor of Biomedical Science course

HUBS404 Biomed Sci Honours 414
Unit Value: 20

The Honours Program provides students with advanced knowledge and skills in specialised areas of biomedical science and provide an introduction to research. The subjects together comprise a program of approved supervised research. Candidates present a project report in the form of a thesis. The project report is also presented and defended orally. Candidates are required to submit an assignment on an approved topic and to attend seminars.

Contact hours per week - 10 to 15 hours per week for full time programme.  
Assumed Knowledge: Bachelor of Biomedical Science course

HUMA1000 Australia and the Asia-Pacific: An Introduction
Unit Value: 10

Introduces students to an interdisciplinary study of the Asia-Pacific region and its significance for Australia. The perspective’s taken include those of History, Politics, Anthropology, Australian Studies and of culture and performance. It will address some key contemporary debates and issues that arise from the regional and comparative focus of the course.

Assumed Knowledge: None

HUMA1051 The Australian Experience
Unit Value: 10

Covers the history of Australia, beginning with the arrival of Aboriginal peoples and ending with contemporary issues such as the Republic. Major themes in Australian history are drawn out, as well as the principal historiographical approaches employed in the study of the Australian past.

Assumed Knowledge: Nil

HUMA1052 Australia and the World
Unit Value: 10

Explores the relationship of Australia and Australians to the outside world during the course of the twentieth century. The approach taken is both chronological and thematic and introduces students to issues of international significance for Australia as well as state-to-state relations.

Contact hours: 3 hours per week

Assumed Knowledge: As this is a 100 level course no particular prior knowledge is assumed.

HUMA1055 Ancient Cultures: An Introduction to Greece & Rome
Unit Value: 10

Provides an introduction to the ancient cultures of Greece and Rome. The main topics under examination include lifestyle; religion; gender and familial issues (the role of women, men and children in society); the military systems; social elements (including slavery). The timeframe covers 5th Century BC Greece and 2nd Century BC-1st Century AD Rome.

Contact hours: 3 hours per week.

Assumed Knowledge: Nil

HUMA1100 Introduction to Linguistics
Unit Value: 10

Introduces students to the scientific study of language: its structure, its communicative functions, how it is acquired by children, and what it reveals about the nature of human beings and human behaviour. The course introduces basic linguistic and sociolinguisitc concepts, levels of linguistic analysis, the structure of the English language, language acquisition, and language variation.

Assumed Knowledge: Nil

HUMA1161 Introduction to Social Anthropology
Unit Value: 10

Introduces students to the broad discipline of anthropology as social and cultural analysis.

It addresses:
- The history of anthropology and anthropological thought
- The nature of anthropological fieldwork
- The contemporary importance of anthropological perspectives

Mode of delivery: One two-hour lecture and a one-hour tutorial per week. Internal delivery.

Assumed Knowledge: None
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HUMA1350 Issues in Australian Politics and Foreign Policy
Unit Value: 10
Examines Australia’s response to the region and how the inter-relationship between domestic and foreign factors both facilitates and frustrates that response.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

HUMA1351 An Introduction to Political Theory
Unit Value: 10
Introduces the discipline of political theory. It seeks to develop a critical appraisal of the principal ideas, arguments and proposals for politics through a selected study of political theory from ancient Greece to the present day. Some recurring themes include assumptions about human nature, forms of the state, regimes of liberty and property, forms of government, and issues of law and justice.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

HUMA1400 Introduction to Welfare Studies
Unit Value: 10
Offers progressive theory and practice debates as an alternative to the dominant neo-conservative ideology, which presently informs welfare service delivery. Examines the Australian welfare state and its contribution to the ideological hegemony of patriarchy, classism, racism and other oppressive structures.
Assumed Knowledge: No specific course prerequisites.

HUMA1600 An Introduction to Gender Studies
Unit Value: 10
Gender will be addressed in terms of its modern historical origins and constructions in the West. The historicity of gender is examined via a study of modernism through to postmodern and poststructural definitions and debates. The course will focus on issues such as feminism; difference and equality; social and cultural specificities; traditions of power; sex and gender; essentialism and constructionism.
Assumed Knowledge: Nil

HUMA1601 Ancient Cultures: The Meaning of Mythology
Unit Value: 10
Ancient Greek and Roman approaches to mythology will be treated. Topics include creation myths; foundation myths; the role of the gods, heroes and heroines in mythology. An additional focus is on the comparative nature of Greek and Roman mythology.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

HUMA1650 Narrative and Representation
Unit Value: 10
Provides an introduction to studies in literature and performance. The course involves study of narratives (fiction, drama, film) drawn from the ancient and modern periods. We shall examine how form itself conveys meaning, and thus how literary and dramatic forms have been employed to represent private and public concerns in a variety of cultural contexts.
Assumed Knowledge: Nil

HUMA1651 English and Australian Fiction
Unit Value: 10
Provides an introduction to broad strands in modern fiction (realism, modernism, and postmodernism), and considers the interrelationships of English and Australian literary traditions. The subject proceeds by pairing representative works of English and Australian fiction.
Assumed Knowledge: Nil

HUMA1653 Introduction to Creative Writing
Unit Value: 10
Introduces students to processes and approaches to imaginative writing in both fictional and non-fictional forms. It involves the analysis of the writing of others as well as the exploration of techniques and approaches to writing. Students will develop the capacity to draw on personal experience, memory and research and will acquire the skills of shaping language to create a portfolio of original works.
Assumed Knowledge: Nil

HUMA2160 Anthropology and Ethnography
Unit Value: 10
Examines past and contemporary anthropological theories and the factors which affect the way ethnography is written.
Contact hours: 2 hours per week
Assumed Knowledge: Adequate grasp of the substance of the introductory anthropology subject at 100 level.

HUMA2161 Melanesian Societies
Unit Value: 10
Examines the remarkably diverse societies found in those islands known collectively as “Melanesia”. After a brief overview of the geography and prehistory of the region, we examine the social and cultural life of a range of Melanesian societies, familiarising ourselves with some anthropological debates on their nature, and look at some contemporary issues of “development”.
Contact hours: 2 hours per week
Assumed Knowledge: 20 credit points of Sociology and Anthropology at 100-level.

HUMA2400 Progressive Welfare Practice 1
Unit Value: 10
Introduces students to a fully developed model of empowering progressive welfare practice through groupwork and casework. This subject assumes an analysis which constantly links the causes of personal and social problems to the problems in the socio-economic structure, rather than to inadequacies inherent in individual people or in socially disadvantaged minority groups. This subject offers students the opportunity to develop skills in offering structural explanations to personal problems and engaging in the ramiﬁcation of such an analysis in groupwork and casework practice.
Contact hours: 3 hours per week
Assumed Knowledge: No specific subject prerequisites. As a second year subject, students will beneﬁt from having completed and passed one or more 100 Level subjects, particularly SPHW101

HUMA2401 Social Policy in Australia
Unit Value: 10
Provides an opportunity for students to examine key themes in social policy using Australian material. The starting point for the subject will be the debate over the nature and extent of class, wealth inequality and poverty in Australia. The subject will then track the extent to which governments in Australia at the national level have attempted and succeeded over the past thirty years in using interventions in social policy fields to reduce the incidence of income poverty and associated inadequacies in standard of living and quality of life. The subject will analyse the forces and interests that have limited government efforts to improve the absolute and relative position of the less well-off and the worst-off.
Contact hours: 3 hours per week
Assumed Knowledge: No specific subject prerequisites. As a second year subject, students will have to have passed one or more 100 Level subjects.

HUMA2402 Society and Capitalist Markets
Unit Value: 10
Examines debates concerning the social impact of capitalist business structures and markets. Are contemporary markets consumer or producer dominated?; do business interests respond to changes in social values and tastes or do they manufacture and shape such changes? The course will focus on the notion of a shift from citizenship to consumerism and draw on theoretical debates amongst economic liberals, marxists, feminists and post-structuralists within media and consumption studies. The central question will be the extent to which consumer behaviour is shaped by advertising, wider forms of commercial marketing and other corporate strategies.
Contact hours: 3 hours per week
Assumed Knowledge: No specific subject prerequisites. As a second year subject, students will have to have passed one or more 100 Level Subjects.

HUMA2403 Society and Capitalist Markets
Unit Value: 10
Examines debates concerning the social impact of capitalist business structures and markets. It will examine issues such as: are contemporary markets consumer or producer dominated?; do business interests respond to changes in social values and tastes or do they manufacture and shape such changes?; have civil society and the state lost power and authority relative to transnational corporations? The course will be primarily concerned with business-society relations seen through the prism of market-mediated consumption.
Assumed Knowledge: HUMA1400 (SPHSW101C) or HUMA1350 or HUMA1351

HUMA3002 Imagined Australians: The Future
Unit Value: 10
Examines representations of Australia in the future through the work of a selection of writers, painters and composers. By analysing the work of creative artists, the subject will identify shifts in wider debates about Australian nationalism and alienation.
Contact hours: 3 hours per week
Assumed Knowledge: The student it expected to have completed HAUS 101 (or equivalent).

HUMA3050 Australian Popular Culture
Unit Value: 20
Begins with a consideration of the nature of popular culture and its historiography. Proceeds chronologically - looking at popular culture of traditional Aboriginal societies, convicts and free settlers; and thematically - considering the relationships between popular culture and race, class and gender. The great popular culture shifts of the twentieth century and the issue of Americanisation will be examined. Topics include: gambling, drinking, sport, music, crime, food, film and television.
Assumed Knowledge: 20 cp of History at 100-level.
LING111, LING112, or equivalent. Survey of societies/cultures by Western ethnographers. Consideration of problems of interpretation in ethnographic writing. Focus on imperialist and colonisation processes, and land, labour and migrant populations. 

Assumed Knowledge: 20 credit points of History at 100 level.

HUMA3052 Hist of Aus-SthPac: Pre-contact to Post-colonialism
Unit Value: 10
Subject focuses on the history of Australia and islands of the Southwest Pacific - notably New Zealand, Fiji, New Caledonia and Samoa. Introduces students to comparative tools of analysis in studying history.

Assumed Knowledge: It is credit noted that students will have completed 20 credit points at first year level in History subjects.

HUMA3053 History and Film
Unit Value: 20
The subject has as its key premise the notion that film is a tool with a powerful influence on the historical imagination, that a filmic construction of an episode and its representation of the 'truth' is validated and becomes the popular vehicle for understanding a particular historical episode. The key objective of the subject is to interrogate the concept 'whose story?', to establish authenticity and to recognise the existence and function of fictionalised historical accounts. Subject content will be organised around modules that take up themes represented in film. Approaches to the filmic medium will include an examination of visual narratives, characterisations, conflict, changes in the gaze between private lives and the public sphere. Film theory will be used to inform these approaches by subverting and positioning the gaze.

Contact hours: 4 Hours per week
Assumed Knowledge: It is highly desirable that students have either successfully completed first year subjects in History or Australian Studies and/ or subjects that equip students with the capacity to analyse and deconstruct representations in any medium, for example Drama and English.

HUMA3100 Language in Australia
Unit Value: 10
Explores the relationships between language and society in Australia. Topics include: Australian English, community (immigrant) languages, Aboriginal and Islander languages, pidgins and creoles, the teaching of languages other than English (LOTES), and language policy.

Assumed Knowledge: 20 credit points of introductory linguistics, comprising LING111, LING112, or equivalent.

HUMA3101 Language and Gender
Unit Value: 10
Examines how language reflects the changing roles of women and men in contemporary society and introduces students to the major issues in the field of language and gender. Topics include: an overview of the development of the field, models of explanation for gender differences, a review of a wide range of linguistic analyses of language used by and about women and men, and language use in the classroom. Students will be guided through the research process of data collection (recording and transcribing language in use) and linguistic analysis.

Contact hours: 2 hours per week
Assumed Knowledge: 20 credit points of introductory linguistics, comprising LING111, LING112, or equivalent.

HUMA3102 Sounds of English
Unit Value: 10
Provides advanced study in two core areas of linguistics - phonetics and phonology. Sound component comprises the analysis and description of speech sounds, with particular emphasis on articulatory phonetics. The phonology component comprises the description and analysis of sounds system and word structure. Sounds of English will focus on Australian English and will include the analysis and description of the sounds of English, variation in Australian English, and the nature of the information conveyed by intonation.

Contact hours: 2 hours per week
Assumed Knowledge: 20 credit points of introductory linguistics, comprising LING111, LING112

HUMA3160 Reading Ethnography
Unit Value: 20
Surveys, critically, anthropological writing from the beginnings of modern anthropology to the present day. An examination of changes in the textual representation of other societies/cultures by Western ethnographers. Consideration of problems of interpretive analysis and the embeddedness of theory in ethnographic style.

Assumed Knowledge: Adequate grasp of the substance of the introductory anthropology course at 100 level, and two anthropological courses at 200 level.

HUMA3161 The Anthropology of Custom, Contention and Dispute
Unit Value: 20
Introduces anthropological perspectives on custom, dispute processes, and concepts of justice in diverse societies/cultures. The impact of colonialism on indigenous regulatory systems. Ethical issues for anthropologists involved in legal cases involving cultural differences.

Contact hours: 4 hours per week
Assumed Knowledge: Adequate grasp of the substance of the introductory anthropology subject at 100 level, and two anthropological subjects at 200 level.

HUMA3162 The Anthropology of Gifts, Commodities & Hustling
Unit Value: 20
The anthropological context of the subject is production, exchange, and subsistence in a changing world. The subject examines the concept of the gift, and its relation to the concept of the commodity; reviews critical analytic models in relation to contemporary anthropological studies of the spread of capitalist production into formerly non-capitalist societies; examines “hustling” and other informal economic strategies in urban third-world/fourth world situations, toward some understanding of the relationship between economy and culture.

Contact hours: 2 hours per week
Assumed Knowledge: Adequate grasp of substance of the 100-level introductory anthropology subject, two anthropological subjects at 200 level.

HUMA3300 Philosophy of Social Sciences
Unit Value: 10
Provides the theoretical background and intellectual tools for critical examination of the methodology and ontological commitments of the social sciences. It includes an overview of the major theoretical approaches to understanding the social sciences as distinctive modes of human inquiry, examining their similarities to, and differences from, the natural sciences, and will consider major questions of the scope, nature and methods of social inquiry and of the nature of social objects.

Contact hours: 2 hours per week
Assumed Knowledge: 20 credit points of Philosophy or a social science at 100 level. Students will be assumed to have introductory-level skills in academic reading, research and essay-writing.

HUMA3350 Understanding Contemporary Politics
Unit Value: 10
Highlights the centrality of power in political discourse. It combines a structural, analytic and historical perspective on political power with a particular emphasis on contemporary political events. Hobbes, Locke, Lukes and Foucault are the main thinkers addressed.

Contact hours: 2 hours per week
Assumed Knowledge: As a subject in the Politics major in the School of Humanities HSS340 rests on assumed knowledge in HSS143.

HUMA3351 Just, Oblig & Welf: Re-Appraising Responsibility
Unit Value: 10
Will examine theories of justice, especially social justice, and of obligation particularly as both of these apply to individual and social welfare. The subject will consider the view that diminishing state responsibility in welfare is leading to a wider re-appraisal of responsibility for social justice.

Contact hours: 3 hours per week
Assumed Knowledge: As a subject at 200/300 level in the Politics major in the School of Humanities pertinent assumed knowledge would include HSS143, HSS240/340, HSS340/342, BOS113.

HUMA3352 The Politics of Postmodernity
Unit Value: 10
Addresses the political issues of agency, the state and mutual obligation in the context of a radical pluralism advanced by contemporary postmodern theorists. It seeks primarily to challenge, by way of critique, the view that modernist political narratives are exhausted and anachronistic.

Assumed Knowledge: A broad background in social science, humanities areas would help, especially if students have done or are taking concurrently, subjects in politics and political philosophy.

HUMA3353 Politics of Southeast Asia
Unit Value: 10
Examines the progress and pressures for democratisation in Southeast Asia since the 1970s. Democratisation (and its limits) will be studied in the context of the rapid economic and social changes that have occurred in the region since that time. The subject will be comparative in its approach.

Contact hours: 2 Hours per week.
Assumed Knowledge: None
HUMA3354  Australia-Asia Relations  
Unit Value:  10  
Examines Australia's engagement with Asia from a number of perspectives including: political and strategic; economic and business; culture; education, human rights and the press. A primary purpose of the subject is to familiarise students with the key issues and debates arising from Australia's closer integration with Asia.  
Contact hours:  2 hours per week.  
Assumed Knowledge: None

HUMA3355  Political Utopias  
Unit Value:  10  
Considers the historical and critical resource provided by utopian political thinking. In particular it will examine varieties of utopian politics, the tensions between utopian and dystopian thought, and the relations between utopia, nostalgia and technology.  
Contact hours:  2 hours per week.  
Assumed Knowledge: As a subject offered at 300 level, and as part of the Politics major in the School of Humanities, HSS455 Political Utopias will rest on assumed knowledge of HSS143, HSS340, or HSS341 or HSS342.

HUMA3356  Gov-Business Relations in Asia-Pacific Region  
Unit Value:  10  
Focuses on government intervention in national economies and business involvement in politics in the Asia-Pacific - activities that have contributed to different rates of economic growth and different amounts of political openness, accountability and transparency in some states or a greater degree of corruption and cronyism in others. While illuminating the similarities and variations across political economies in the Asia-Pacific the subject also seeks to indicate how well (or not) Australia 'fits in' the region.  
Assumed Knowledge: Nil

HUMA3357  Australian Government and Politics  
Unit Value:  10  
Focuses on the 'nuts and bolts' of the system of political contest and government in Australia. The course examines how the major institutions of the Australian state are supposed to work in theory and how they work in practice. A secondary theme is the way in which the form and operation of government is shaped by political forces representing wider social and economic interests and how, in turn, these wider interests are effected by the form of government. In what sense is the Australian political and governmental system democratic? Are some parts of government more powerful than others? How does the design of the governmental system affect the character of decision-making?  
Assumed Knowledge: Nil

HUMA3400  Welfare Inquiry: Research Theory and Methods  
Unit Value:  10  
Provides an introduction to theoretical and methodological issues relevant to research inquiry within welfare practice and social policy settings. The subject has three strands. The first, a lecture series, provides an introductory overview of theoretical and methodological issues involved in research within the social sciences. The second seminar series, focuses on qualitative research. It involves the design by each student of a qualitative research project. Students are guided in this task by a textbook which provides instruction in some practical exercises via a weekly workshop.  
Contact hours:  3 hours per week.  
Assumed Knowledge: No specific subject prerequisites. As a second year subject, students will have to have passed one or more 100 Level subjects.

HUMA3401  Progressive Welfare Practice 2  
Unit Value:  10  
Adopts a postmodern, narrative, social constructionist approach offering ideas and techniques where students develop an understanding of how the welfare state constructs people’s realities. It’s focus will primarily be the development of skills in narrative therapy in addition to the specific development of anti-oppressive principles of welfare practice.  
Contact hours:  3 hours per week.  
Assumed Knowledge: (Information provided under this heading will be published on the web)  
If appropriate, provide details of the knowledge considered desirable to facilitate success in the subject.

HUMA3403  Australian Public Policy and Social Outcomes  
Unit Value:  10  
Examines the evidence concerning likely winners and losers from changes in the degree and direction of government intervention in a number of key areas of public policy in Australia. Fields to be studied will include mass media, IT and communications; basic services such as banking, the utilities and transport; urban planning; the environment; and taxation and public finance. Trends towards privatisation and deregulation will be a focus. Categories of winners/losers will include overseas versus local firms; city/rural and remote areas; high/low income earners; the waged/non-waged; and associated gender and ethnicity dimensions of these outcomes.  
Contact hours:  3 hours per week.  
Assumed Knowledge: No specific subject prerequisites. As a second year subject, students will have to have passed one or more 100 Level subjects.

HUMA3405A  Welfare Practicum  
Unit Value:  10  
Forms the second part of a multi-term sequence. Students will complete a total of 240 hours field placement in a welfare agency. Students will need to enrol in both HSS386A and HSS386B to complete their practicum. This multiterm course promotes the professional development of students as they prepare to enter the welfare service industry; offers experience and knowledge of the variety and range of different welfare practice settings; and identifies the role of welfare practitioners in individual, organisational and wider social issue contexts.  
Assumed Knowledge: It is desirable that students will have completed 50 units of welfare subjects or equivalent.

HUMA3405B  Welfare Practicum  
Unit Value:  10  
Forms the second part of a multi-term sequence. Students will complete a total of 240 hours field placement in a welfare agency. Students will need to enrol in both HSS386A and HSS386B to complete their practicum. This multiterm course promotes the professional development of students as they prepare to enter the welfare service industry; offers experience and knowledge of the variety and range of different welfare practice settings; and identifies the role of welfare practitioners in individual, organisational and wider social issue contexts.  
Assumed Knowledge: It is desirable that students will have completed 50 units of welfare subjects or equivalent.

HUMA3406  Human Rights  
Unit Value:  10  
Considers the debates amongst theorists about the concept of ‘human rights’, and how it differs from concepts such as ‘needs’ and ‘wants’. The course examines the content of the human rights agenda (the sort of rights which have been sought) and influence of the human rights discourse and lobby on practices and policies of governments both in Australia and overseas. Examines also the influence of the Declaration of Human Rights on welfare policy and practice in Australia.  
Assumed Knowledge: Nil

HUMA3408  Young People & the State  
Unit Value:  10  
Provides an introduction to youth work practice and to the contemporary provision of youth services. Major theoretical approaches to understanding young people will be examined. The social construction of ‘youth’ in Australian society will be an area of specific focus. The nature of issues affecting young people will be investigated under the broad headings of health; education; the labour market; accommodation and housing; juvenile justice; sexuality and young people in the context of families. Contemporary service delivery approaches to young people will be identified, together with contemporary policy and practice issues.  
Assumed Knowledge: SPFW101C or HSS180

HUMA3409  Working in Human Service Organisations  
Unit Value:  10  
Empowers professional human service workers in integrating into and functioning within their organisational context. It recognises the importance of the organisational context and provides critical analyses of organisational functioning, power within organisations and ideological effects on workers. The course provides instruction in deconstructing host organisations and surviving within organisations  
Assumed Knowledge: Nil

HUMA3600  Women in Ancient Literature  
Unit Value:  10  
Examines the representation of women in Greek and Roman literature. Topics will include the portrayal of mythical and legendary women as well as historical personages. Some attention will be given to visual representation as well.  
Assumed Knowledge: 20 units of either Classical Civilisation at First Year Level and/or English or History.
HUMA3601 Ancient Cultures: The World of Greek Theatre
Unit Value: 10
Provides an innovative approach to the study of Greek theatre through the combina-
tion of Classical analysis and Drama methodology. This subject examines the major
works of dramatists from 5th Century Greece as both literary works and drama to be
staged. The combination of literary analysis and practicalities of performance ensures a
balanced and insightful understanding and envisioning of Greek drama as literature, ritual,
social/political construct, and dynamic performance.
Contact hours: 2 lecture hours per week and 1 tutorial hour per fortnight.
Assumed Knowledge: Nil.

HUMA3602 Ancient Cultures: Sport and the Cult of the Body
Unit Value: 10
Traces the origins of sport from the Olympics of the Greek world through to the great
gladiatorial spectacles of the Roman arena. The main focus is upon its signific ance as a
means of paying funeral honours to great men; the celebration and definition of cultural
identity; the elevation of individuals and their cities through sporting success; the
provision of public spectacle for entertainment and propaganda. The representation of
athleticism and the cult of beauty in literature and art is also examined.
Contact hours: 2 lecture hours per week and 1 tutorial hour per fortnight.
Assumed Knowledge: Nil.

HUMA3603 Ancient Cultures: The Art of Magic
Unit Value: 10
Deals with definitions of magic, witchcraft, religion and the connections between
occult practices and religious belief/practice. Later lectures deal with the actual
practice of various forms of magic in antiquity, beginning with those who practiced it,
and concluding with the degrees of belief in such activities and reactions against them.
Actual magic practices such as curse tablets, binding spells, alchemy and astrology are
analysed. The second major component of the subject is based on the fantasy world of
magic and witchcraft in literature. In addition to looking at Greek and Roman literature
there is a comparative element involving fairy-tales and material from the age of the
Witch Hunts.
Contact hours: 2 lecture hours per week and 1 tutorial hour per fortnight.
Assumed Knowledge: Nil.

HUMA3604 Inventing Gender Sexuality & Text in Antiquity
Unit Value: 10
Examines gender and sexuality as they were represented in ancient Greece and Rome.
The focus is on these issues as revealed in artwork and written texts. Attention will
also be given to contemporary approaches to gender in antiquity.
Assumed Knowledge: HUMA1600 An Introduction to Gender Studies and/or
HUMA1650 Narrative and Representation and/or
HUMA1601 Ancient Cultures: The Meaning of Mythology

HUMA3650 Special Topic: Romance and Society
Unit Value: 10
Provides an introduction to the genre of romance in all its guises in European
literature, and considers the relations between individual examples of this durable
genre and the historical and cultural contexts in which they have appeared.
Assumed Knowledge: 20 units at 1000-level English.

HUMA3652 Victorian to Modern
Unit Value: 20
Explores the shift from the Victorian period to the Modern in English literature and
culture, taking the Bloomsbury Group as the focus. The course examines relationships
among the works of such writers as Strachey, Forster, T.S. Eliot, Mansfield, and Woolf,
and also takes note of Bloomsbury aesthetic theories. We shall study short works by
Victorian writers along with the modern material in order to see how the politics and
aesthetics of modernist writers respond to Victorian ideas.
Assumed Knowledge: 20 units of literary study at 1000-level.

HUMA3660 Making and Telling Stories
Unit Value: 10
Explores social, cultural and historical aspects of story telling, and the structures and
features of myths, legends and fairy tales. It examines traditions of story telling as well
as engaging students in the analysis, creation and presentation of stories in print,
visual and moving image forms. It explores the contractual relationship between the
teller, the tale and the listener.
Assumed Knowledge: While there is no assumed knowledge for this course,
students will find it builds on work in a number of 1000 level courses, such as
Creating Original Performance, Ancient Cultures: The Meaning of Mythology,
and Introduction to Creative Writing.

HUMA3662 Topics in Literature and Performance A
Unit Value: 10
Focuses on a particular area of literature and/or performance study, allowing
development of specialized understanding of a given field of ancient or modern
literature or drama. Topics will vary from year to year. Delivery mode: internal.
Contact hours: 2-3 hours per week.
Assumed Knowledge: HUMA1650 or 10 units study in a Literature and
Performance area at 1000-level.

HUMA4001 Societies & Cultures Honours A
Unit Value: 20
HUMA4001, HUMA4002, HUMA4003 and HUMA4004 together form the School of
Humanities BA (Hons) program in the area of ‘Global Societies and Cultures’.
Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within the field of humanities.
Assumed Knowledge: Undergraduate Bachelor of Arts degree with a major in
a humanities-related field

HUMA4002 Societies & Cultures Honours B
Unit Value: 20
HUMA4001, HUMA4002, HUMA4003 and HUMA4004 together form the Honours
program in the area of ‘Societies and Cultures’. Students undertaking this honours
program will develop an understanding of methodological and theoretical issues as
well as performing research appropriate to an honours level degree within the field of
humanities.
Assumed Knowledge: Undergraduate Bachelor of Arts degree with a major in
a humanities-related field

HUMA4003 Societies & Cultures Honours C
Unit Value: 20
HUMA4001, HUMA4002, HUMA4003 and HUMA4004 together form the Honours
program in the area of ‘Societies and Cultures’. Students undertaking this honours
program will develop an understanding of methodological and theoretical issues as
well as performing research appropriate to an honours level degree within the field of
humanities.
Assumed Knowledge: Undergraduate Bachelor of Arts degree with a major in
a humanities-related field

HUMA4004 Societies & Cultures Honours D
Unit Value: 20
HUMA4001, HUMA4002, HUMA4003 and HUMA4004 together form the School of
Humanities BA(Hons) program in the area of ‘Global Societies and Cultures’.
Students undertaking this honours program will develop an understanding of
methodological and theoretical issues as well as performing research appropriate to an
honours level degree within the field of humanities.
Assumed Knowledge: Undergraduate Bachelor of Arts degree with a major in
a humanities-related field

HUMA4400 Welfare Studies Honours A
Unit Value: 20
HSS480, HSS481, HSS482, and HSS483 together form the Honours programme in
Progressive Welfare Studies. Students undertaking this honours programme will
develop an understanding of methodological and theoretical issues in the field and
perform research at honours level.
Delivery mode: internal.
Assumed Knowledge: Three-year undergraduate degree programme in Social
Science (normally with a major in a welfare-related field).

HUMA4401 Welfare Studies Honours B
Unit Value: 20
HSS480, HSS481, HSS482, and HSS483 together form the Honours programme in
Progressive Welfare Studies. Students undertaking this honours programme will
develop an understanding of methodological and theoretical issues and perform
research at honours level within the field of Welfare Studies.
Delivery mode: internal.
Assumed Knowledge: Three-year undergraduate degree in Social Science
(normally with a major in a welfare-related field).

HUMA4402 Welfare Studies Honours C
Unit Value: 20
HSS480, HSS481, HSS482, and HSS483 together form the Honours programme in
Progressive Welfare Studies. Students undertaking this honours programme will
develop an understanding of methodological and theoretical issues and perform
research at honours level within the field of Welfare Studies.
Delivery mode: internal.
Assumed Knowledge: Three-year undergraduate degree in Social Science
(normally with a major in a welfare-related field).

HUMA4403 Welfare Studies Honours D
Unit Value: 20
HSS480, HSS481, HSS482, and HSS483 together form the Honours programme in
Progressive Welfare Studies. Students undertaking this honours programme will
develop an understanding of methodological and theoretical issues and perform
research at honours level within the field of Welfare Studies.
Delivery mode: internal.
Assumed Knowledge: Three-year undergraduate degree in Social Science
(normally with a major in a welfare-related field).
Bachelor of Arts pass degree or equivalent, normally with a major in a literature and/or performance-related field.

Assumed Knowledge: Students applying to the Honours program must have a Bachelor of Arts pass degree or equivalent, normally with a major in a literature and/or performance-related field.

HUMA4652 Literature & Perform Hon B
Unit Value: 20
HUMA4651, HUMA4652, HUMA4653, HUMA4654 together constitute the honours program in Literature and Performance, which comprises a combination of coursework and supervised research. Students will develop an understanding of methodological and theoretical issues in the field as well as performing research on a specific topic chosen from areas of ancient and modern literature and drama. Assumed Knowledge: Students applying to the Honours program must have a Bachelor of Arts pass degree or equivalent, normally with a major in a literature and/or performance-related field.

HUMA4653 Literature & Performance Honours C
Unit Value: 20
HUMA4651, HUMA4652, HUMA4653, HUMA4654 together constitute the honours program in Literature and Performance, which comprises a combination of coursework and supervised research. Students will develop an understanding of methodological and theoretical issues in the field as well as performing research on a specific topic chosen from areas of ancient and modern literature and drama. Assumed Knowledge: Students applying to the Honours program must have a Bachelor of Arts pass degree or equivalent, normally with a major in a literature and/or performance-related field.

HUMA4654 Literature & Performance Honours D
Unit Value: 20
HUMA4651, HUMA4652, HUMA4653, HUMA4654 together constitute the honours program in Literature and Performance, which comprises a combination of coursework and supervised research. Students will develop an understanding of methodological and theoretical issues in the field as well as performing research on a specific topic chosen from areas of ancient and modern literature and drama. Assumed Knowledge: Students applying to the Honours program must have a Bachelor of Arts pass degree or equivalent, normally with a major in a literature and/or performance-related field.

IDEA1450 Design Drawing
Unit Value: 10
Provides an introduction to drawing which is focused on visualisation and the use of drawing to solve design problems. It provides students with the opportunities to develop visual acuity through acquiring skill in freehand and formal perspective drawing and a knowledge of drawing media and techniques. Studies in problem solving apply drawing methods to design process. Students learn to read and understand measured perspective drawings as well as gaining an understanding of how to produce those drawings. Students will learn to utilise the knowledge of light and shadow and apply these to basic rendering techniques. Projects are directly related to the needs of teachers of design and technology.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

IDEA1480 Introduction to Workshop
Unit Value: 10
Formal workshop skills are presented and applied in the context of Design and Technology. Workshop safety and basic workshop practices including fabrication and basic machining process are introduced. The relationship between prototypes and industrial production is defined. Drafting to Australian Standards 1100 is investigated.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

IDEA1500 Industrial Design 1
Unit Value: 10
Introduces the profession of industrial design and design process. Synthesises the skills, techniques, methodology and philosophies developed in other design courses.
Contact hours: 9.5 hours studio per week
Assumed Knowledge: Concurrent assumed knowledge DESN160, DESN180

IDEA1510 Industrial Design 2
Unit Value: 10
Furthers the skills, techniques, methodologies and philosophies developed in other courses. These are placed within the design process in this, the Industrial Design core course.
Contact hours: 6 hour studio per week
Assumed Knowledge: Pre-requisites: DESN147, DESN160, DESN180 or DESN145
Co-requisites: DESN190, DESN170

IDEA1600 Production Drawing 1
Unit Value: 10
Deals with the formal skills of production drawing and application of Australian Standards (AS) requirements in the context of industrial design.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

IDEA1700 Mechanisms
Unit Value: 10
Provides an introduction to drawing which is focused on visualisation and the use of drawing to solve design problems. It provides students with the opportunities to develop visual acuity through acquiring skill in freehand and formal perspective drawing and a knowledge of drawing media and techniques. Studies in problem solving apply drawing methods to design process. Students learn to read and understand measured perspective drawings as well as gaining an understanding of how to produce those drawings. Students will learn to utilise the knowledge of light and shadow and apply these to basic rendering techniques. Projects are directly related to the needs of teachers of design and technology.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

IDEA1800 Basic Presentation Techniques
Unit Value: 10
Introduces methods of presentation, techniques and materials. Emphasis is placed on the use of styles and methods of communication appropriate to the presentation requirements of specific stages of project development in industrial design.
Contact hours: 3 hour studio per week
Assumed Knowledge: Nil

IDEA1900 Basic Modelling
Unit Value: 10
Examines alternative model types and their uses and appropriateness within the design process. Introduces basic safety workshop practices and modelling techniques.
Contact hours: 3 hours per week
Assumed Knowledge: DESN160

IDEA2450 Workshop Skills
Unit Value: 10
Integrates advanced workshop skills with design process in the context of Design and Technology. Examines the selection of appropriate workshop processes and their design implications. Safety and workshop practices are considered.
Contact hours: 3 hour studio per week
Assumed Knowledge: Nil.
IDEA2460 Environmental Design
Unit Value: 10
Explores the influence of environmental considerations on the design process through a series of problem based learning projects and analysis of case studies. Design processes as they are affected by environmental and social constraints are explored.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: Nil

IDEA2500 Industrial Design 3
Unit Value: 10
Introduces health and safety considerations relevant to the topics presented. Projects are more complex than those presented in DESN150 and DESN151. Design briefs are prepared by students from verbal briefings following project presentation seminars. The design briefs, and design solutions require a practical understanding of basic workshop and manufacturing techniques that are developed in experimental model making exercises using readily available materials. The development of a viable concept, from a number of design proposals for each project, is encouraged. Students may work on more than one project at any one time. This encourages sound professional studio work habits.
Contact hours: 6 hours per week
Assumed Knowledge: DESN151

IDEA2510 Industrial Design 4
Unit Value: 10
Introduces health and safety considerations. Projects are more complex than those presented in DESN250. All design briefs are prepared by students from verbal briefings following project presentation seminars and each project requires market, materials and component research and evaluation. Design solutions will be based within the confines of prescribed materials and manufacturing processes to develop an understanding of design compromises inherent in all design projects. The development of a viable concept, from a number of design proposals for each project, is further encouraged. Students may work on more than one project at any one time. This encourages sound professional studio work habits. Topics in this course are covered through set projects throughout the semester.
Contact hours: 6 hours per week
Assumed Knowledge: DESN250

IDEA2600 Production Drawing 2
Unit Value: 10
Introduces health and safety considerations. Advanced production drawing and application of Australian Standards Association requirements are considered in the context of industrial design. Students will be able to produce assembly and detail production drawings on computer modelling and animation systems.
Contact hours: 3 hours per week
Assumed Knowledge: DESN160, DESN265 or DESN266

IDEA2660 Design for Mass Production 2
Unit Value: 10
Introduces students to the materials and manufacturing processes encountered in Industrial Design. Emphasises the design implications of the interplay between material choice and production process. Processes addressed include injection moulding; extrusion; FRP/GRP; folding; welding: turning; routing; galvanising; spray painting; powder coatings; and plating.
Assumed Knowledge: DESN1480 or DESN1510

IDEA2890 Styling
Unit Value: 10
Introduces analysis, generation and application of style. Topics may include: colour, form, balance and dynamics, thematic styling, biomorphics, history and development of "styling", corporate/house style, and fashion.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: DESN180 or DESN100 or DESN101

IDEA3000 Directed Study
Unit Value: 10
Enables students to undertake an approved project in an area of industrial design not already addressed by existing elective specialisation courses. The project work will take into account relevant health and safety considerations and the refinement of the characteristics of professional industrial design projects.
Assumed Knowledge: Enrolment on approval of the Head of Discipline.

IDEA3450 Design for the Future
Unit Value: 10
Extrapolates the design process, including the notion of a variable set of constraints, into the future. The effect of ‘Futures’ on the design process is further explored through a series of problem based learning projects and analysis of case studies. Design projects will apply the design process both to future constraints and hypothesised future technologies.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: Nil

IDEA3500 Industrial Design 5
Unit Value: 10
Expands on aspects of the profession covered in the courses DESN150, DESN151, DESN250 and DESN251 including professional work habits, design skills and methods of communication. The design brief and design solutions embody relatively detailed considerations of marketing and manufacturing requirements.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN251, DESN260, DESN190

IDEA3510 Industrial Design 6
Unit Value: 20
Projects take on the characteristics of professional design projects. All design briefs are prepared by students from verbal briefings. Design briefs, and design solutions embody a relatively detailed consideration of marketing and manufacturing requirements. The design solutions are resolved at a detailed level.
Contact hours: 6 hour studio per week
Assumed Knowledge: DESN250

IDEA3830 Furniture Design
Unit Value: 10
Explores the specialist theories and principles of Furniture Design, including selection and documentation of manufacturing processes, presentation techniques, trimming/surfacing techniques, fastening technologies and selection of standard components, project costing, planning and management, prototyping and testing, environmental considerations.
Contact hours: 3 hour studio per week
Assumed Knowledge: DESN250, co-requisite - DESN385

IDEA3850 Human Factors
Unit Value: 10
Explores principles of human factors and ergonomics. Students evaluate and apply anthropometric and ergonomic data within the context of Industrial Design. Topics covered include anthropometry, light/visibility, sound/hearing, structured environments, control systems and interfaces, design for the disabled, comfort, safety, fatigue and testing.
Contact hours: 1 hour lecture and 2 hour studio per week
Assumed Knowledge: None

IDEA4500 Industrial Design 7
Unit Value: 20
Synthesis of all previous coursework. Documentation and detailing of all projects is an important part of developing a professional industrial design folio. Projects are identified by the student, staff or obtained from industry sources. Brief preparation, time management, specification and contact with component and material suppliers is an integral component of this course.
Contact hours: 6 hour studio per week
Assumed Knowledge: DESN351

IDEA4510 Industrial Design 8
Unit Value: 20
The purpose of this course is to mimic a professional environment and allow choice of projects which reflects a student’s design specialisation. The design briefs are prepared by the student, and with design solutions, embody a comprehensive consideration of marketing and manufacturing requirements. The design solutions are resolved at a detailed level.
Contact hours: 6 hour studio per week
Assumed Knowledge: DESN450

IDEA4520 Industrial Design 9
Unit Value: 20
Allows students to undertake a significant project of their choice. The project exhibits all the attributes of a professional Industrial Design project.
Contact hours: 6 studio hours per week
Assumed Knowledge: DESN450

IDEA4550 Industrial Design Photography
Unit Value: 10
Provides the knowledge and skills to produce a portfolio of two and three-dimensional work specific to the needs of the industrial designer. The role and responsibilities of the industrial photographer and their relationship with the designer are examined. Practical skills related to camera craft, emulsion selection, colour balance and exposure controls are developed.
Contact hours: 1 lecture hour and 2 hour studio per week
Assumed Knowledge: DESN311 or DESN350

INFO1010 Introduction to Information Systems
Unit Value: 10
Provides a foundation for understanding information systems both in terms of the underlying technology and in terms of the impact on business and society. Information systems concepts and terminology are explained, including the fundamentals of software and systems development processes. Takes a hands-on approach to helping students become proficient in the use of microcomputers as personal productivity tools.
Contact hours: 5 hours per week
Assumed Knowledge: Nil
INFO1020  Information Storage and Management  
Unit Value: 10  
Provides an understanding of design and application of database systems in commercial environments, with practical exposure to tools and techniques used to store and retrieve data in computer-based information systems. The focus is on relational databases. Topics include construction of an Entity-Relationship (ER) model from a given description; construction of a relational model from an ER model and normalization of the relational model; SQL, queries and views; indexes, transaction processing; and distributed environments.  
Assumed Knowledge: Students are assumed to have completed INFO1010 or have equivalent knowledge and experience.

INFO2010  Human Context of Information Systems  
Unit Value: 10  
Examines the impact of information systems within organisations and on the external environment, in order to understand the interactions between information systems and individuals, organisations and society. Initially the lecture sequence will study the interplay of information systems and the nature and structure of organisations, including the effect on job design within the organisation. In conjunction with the lecture series will be a tutorial stream which presents students with case studies that look at organisational change case studies and ethical case studies in the IT context. Finally the lectures will focus on external issues such as privacy, politics, crime and the impact of IT on the economy and social networks.  
Contact hours: 3 hours per week  
Assumed Knowledge: Students are assumed to have completed INFO101 and IRRH111 in order to have a basic understanding of information systems and organisational behavior.

INFO2020  Systems Analysis and Design  
Unit Value: 10  
Focuses on traditional structured systems analysis and design techniques. Topics are introduced in a practical way and students are presented with realistic examples to reinforce the learning experience. The conventional Systems Development Life Cycle methodology is introduced, supported by tools such as Data Flow Diagrams, Pseudo Code, Data Dictionary and Entity Relationship Modelling.  
Contact hours: 3 hours per week  
Assumed Knowledge: Students are assumed to have completed INFO 101 in order to have a basic understanding of information systems.

INFO2030  Information Systems Implementation  
Unit Value: 10  
Focuses on the management of the development of computer-based information systems. Topics covered include project management, software quality, interface design, implementation and testing strategies and maintenance and evaluation. Two case studies are introduced throughout the course to illustrate concepts, and students are introduced to a variety of software tools.  
Contact hours: 3 hours per week  
Assumed Knowledge: Students are assumed to have knowledge equivalent to that attained on completion of INFO102 and INFO202.

INFO2040  Distributed Computing Technologies  
Unit Value: 10  
Enables students to understand the interactions and synergies between the physical, platform, tools and business environments. It covers concepts and skills needed to develop and manage PC-based information systems, including database design and implementation, event-driven programming, development of effective user interfaces, and data representation and data retrieval, update and archival mechanisms for such systems. Students will also be introduced to a variety of software tools.  
Contact hours: 3 hours per week  
Assumed Knowledge: Students are assumed to have a sound understanding of the following areas:  
1. The Windows 95 operating system environment  
2. Microsoft Access database management system  
3. Data modelling, especially Entity-Relationship diagrams and Semantic Object modelling  
4. The Relational model, especially the Optional-Max method of creating relational tables from ER diagrams  
5. Normalisation of relations  
6. SQL  
7. Computer programming using a procedural or object-oriented language

INFO2050  Business Information Systems  
Unit Value: 10  
Takes an historical approach to understanding the requirements for business information and the key issues to be considered when introducing new business information systems. Traces how and why business records developed, at the same time illustrating the management of these records in modern information systems. Practical exposure to software systems that support both large and small organisations is provided. SAP is typical of a large multi-national organisation information system while MYOB is a typical PC-based accounting/management package for small business.  
Contact hours: 3 hours per week  
Assumed Knowledge: Successful completion of INFO101 or equivalent.  
Basic knowledge of economics, marketing and accounting will also be assumed.

INFO2060  Electronic Commerce and Organisational Structure  
Unit Value: 10  
Provides students with the ability to critically assess evolutionary developments such as electronic commerce and globalisation. Students will acquire the critical and technical skills required to analyse the interrelationships between inter-organisational structures (for example, alliances or vertical integration) and evolving information systems.  
Contact hours: 3 hours per week  
Assumed Knowledge: Successful completion of INFO101 or equivalent.

INFO2090  Distributed Computing Technologies 2  
Unit Value: 10  
Expands on basic concepts of the design, implementation, maintenance and usage of multimedia/distributed databases in a business environment. Students will gain theoretical knowledge and practical experience in the use of SQL server, the ADO data interface model, PC and web based clients, client and server side scripting, COM and ActiveX components as well as specific web technologies such as Internet Information Server and Active Server pages. Students will design and implement a simple order entry system for use over the web.  
Assumed Knowledge: INFO1010

INFO2120  Intelligent Systems for Business  
Unit Value: 10  
Provides an introduction to the area of intelligent systems by focusing on business applications, and provides students with an understanding of several qualitative and quantitative methods to support decision making. Four intelligent system architectures are explored; namely, those based on deduction, induction, object-oriented, and neural networks. Software tools are used and methods for formally evaluating intelligent systems software are also investigated.  
Contact hours: 2 hours per week  
Assumed Knowledge: SENG111 Introduction to Software Engineering 1 plus MATH116 Mathematical Techniques for IT or MATH115 Discrete Mathematics

INFO2220  Introduction to Health Informatics  
Unit Value: 10  
Provides students with an understanding of the role of information systems in the health sector and the special requirements of information technology use within that application area. It will give students an introduction to the broad implications of IT in the health area by providing relevant case-based examples so that students can appreciate the interplay of that sector’s special needs, problems, organisational structures and external influences. Suitable for students who are doing information or organisational based courses, and who wish to extend their knowledge of applications in the health sector, and for students currently undertaking health related programs who wish to gain an insight to the organisational and informational aspects in their chosen area.  
Contact hours: 2 hours per week  
Assumed Knowledge: INFO101 or equivalent.

INFO3010  Information Management  
Unit Value: 10  
Investigates data representation and data retrieval, update and archival mechanisms for a range of information types. Integration and connectivity issues associated with different information resource architectures are also explored. Concepts are illustrated using current Data Base Management System (DBMS) platforms.  
Contact hours: 3 hours per week  
Assumed Knowledge: Familiarity with fundamental relational database concepts such as entity relationship diagrams and data normalization Knowledge of common System Development Life Cycle (SDLC) methodologies and tools  
Familiarity with issues of interface design

INFO3020  Information Systems Methods and Techniques  
Unit Value: 10  
Compares and contrasts alternative information systems analysis design and development techniques, with the aim of identifying their strengths and weaknesses when used in particular problem domains. Emphasis is on subject oriented analysis and design, together with other data and interface driven design methodologies.  
Contact hours: 5 hours per week  
Assumed Knowledge: INFO203 Systems Design
INFO3030 Information Systems & The Organisation
Unit Value: 10
Investigates information systems within an organisation from a management perspective. Topics include the links between information systems and organisational structure; strategic planning, approval and evaluation of information systems; and ongoing management of the information systems function.
Contact hours: 3 hours per week
Assumed Knowledge: Students are assumed to have a basic understanding of computer-based information systems, including executive support and database management systems; systems development life cycle; and of management theory and organisational behaviour.

INFO3040 Knowledge Systems
Unit Value: 10
Covers the theoretical and practical foundations of business-oriented knowledge systems. It includes knowledge representation, strategies for problem solving, exposure to logic programming, expert systems and neural networks. Implementation issues will be explored via decision making in a business context, and some successful applications of Artificial Intelligence techniques will be studied.
Assumed Knowledge: Students are assumed to have completed INFO2210 Intelligent Systems for Business MATH1510 Discrete Mathematics
SENG1110 Introduction to Software Engineering

INFO3050A Information Systems Project (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
As a "capstone" to the Bachelor of Information Science running through a full year, this course requires students to work in small teams to develop a medium sized computer-based information system. The course uses a problem based learning approach to inculcate a diverse range of skills and attitudes ranging through technical analysis and design to project management and teamwork.
Assumed Knowledge: Students are assumed to have completed INFO102, INFO202 and INFO203 satisfactorily and to have either passed or be currently doing INFO301

INFO3050B Information Systems Project (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
As a "capstone" to the Bachelor of Information Science running through a full year, this course requires students to work in small teams to develop a medium sized computer-based information system. The course uses a problem based learning approach to inculcate a diverse range of skills and attitudes ranging through technical analysis and design to project management and teamwork.
Assumed Knowledge: Students are assumed to have completed INFO102, INFO202 and INFO203 satisfactorily and to have either passed or be currently doing INFO301

INFO3060 Industrial Research
Unit Value: 10
Involves completion of a unit of applied research into some aspect of computer based information systems in collaboration with an outside organisation. Each subject completes a formal report detailing the study objectives, research method employed, results obtained and suggestions related to possibilities for further study.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

INFO4070 Modern Software Development Practice
Unit Value: 10
Modern Software Development is a rapidly changing area. New paradigms for software development attempt to overcome problems related to the mapping of real world situations to Information Systems solutions. Object oriented approaches attempt to address this problem.
Assumed Knowledge: INFO3020 - Information Systems Methods and Techniques

INFO4110 Information Systems 1VA
Unit Value: 10
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass program and which are necessary for them to undertake the substantial research involved in a research thesis.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFO4120 Information Systems 1VB
Unit Value: 10
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass program and which are necessary for them to undertake the substantial research involved in a research thesis.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFO4130 Information Systems 1VC
Unit Value: 10
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass program and which are necessary for them to undertake the substantial research involved in a research thesis.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFO4140 Information Systems 1VD
Unit Value: 10
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass program and which are necessary for them to undertake the substantial research involved in a research thesis.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFO4150 Thesis in Information Systems - Part I
Unit Value: 20
Aims to provide students with the skills to carry out research, both academic and professional, in the area of Information Systems. Competencies developed include the ability to think critically and independently, to communicate complex ideas in oral and written form, and to work independently. On successful completion, the student will also have developed current knowledge in specific areas of Information Systems.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFO4160 Thesis in Information Systems - Part II
Unit Value: 20
Comprises a supervised original research project, usually involving a literature review, together with a theoretical and/or practical investigation of an information systems problem.
Contact hours: By arrangement
Assumed Knowledge: Admission to the Honours program

INFT1010 Website Construction
Unit Value: 10
Introduces students to the Internet as a key application domain for information technology systems in modern society. Provides the skills needed to design and develop a comprehensive website for use within an organisation. Introduces students to software development through scripting languages.
Contact hours: 6 hours per week
Assumed Knowledge: None.

INFT1020 Computer Systems Management
Unit Value: 10
Introduces students to the role and use of information technology within organisations. Emphasises the interacting nature of hardware, software and client users in information technology applications. Provides students with skills for supporting clients in an organisational environment. Equips students to support users in both hardware and software.
Contact hours: 6 hours per week
Assumed Knowledge: None.

INFT1030 Applications Programming 1
Unit Value: 10
Introduces students to computer programming and its role in information technology systems within organisations. The key areas of program design, development and testing are considered. The emphasis is on problem solving skills and program design techniques.
Contact hours: 6 hours per week
Assumed Knowledge: None.

INFT1040 Systems Analysis and Design
Unit Value: 10
Provides students with an introduction to a variety of systems analysis and design methodologies commonly used in the information technology industry. Develops the skills required to analyse and design information technology solutions that help organisations achieve their objectives.
Contact hours: 6 hours per week
Assumed Knowledge: None.

INFT2010 Applications Programming 2
Unit Value: 10
Continues the development of students' programming skills started in INFT1030 Applications Programming 1. Extends program design, development and testing into more advanced applications. Extends understanding of data structures, algorithms and programming techniques.
Contact hours: 6 hours per week
Assumed Knowledge: INFT1030 Applications Programming 1
INFT2020 Operating Systems
Unit Value: 10
Provides students with the theory and practical application of a variety of commonly used operating systems. Introduces the skills needed to install, configure and maintain an operating system.
Contact hours: 6 hours per week
Assumed Knowledge: INFT1020 Computer Systems Management

INFT2030 Computer Networks
Unit Value: 10
Provides students with theoretical knowledge and practical skills in the use of computer networks in information technology applications. Extends students' ability in computer hardware and systems software.
Contact hours: 6 hours per week
Assumed Knowledge: INFT1020 Computer Systems Management

INFT2040 Database Management Systems
Unit Value: 10
Provides students with theoretical knowledge and practical skills in the use of databases and database management systems in information technology applications. Logical and physical design and implementation of enterprise level databases are considered.
Contact hours: 6 hours per week
Assumed Knowledge: INFT1020 Computer Systems Management

INFT2800 Information Systems Development
Unit Value: 10
Addresses the techniques and tools used to construct modern information systems, especially those relating to electronic businesses. It equips students with business analysis skills to facilitate communication with information systems professionals.
Contact hours: 3-4 hours per week
Assumed Knowledge: BUS190 Electronic Business.

INFT3910 Advanced Software Development
Unit Value: 10
Consolidates and refines students' previous software development skills and knowledge, and extends their skills and knowledge into large-scale, complex software systems. Considers software from a user's perspective and emphasises software application. Integrates students' information technology knowledge and skills with their knowledge in application domains.
Hours of contact: 4 hrs per week
Assumed Knowledge: TAFE201 Advanced Programming

INFT3920 Contemporary Issues in Information Technology
Unit Value: 10
Investigates a number of contemporary issues in the rapidly changing information technology environment. Considers social and ethical issues in information technology. In depth it investigates a number of topical theoretical issues and practical information technology tools and broadens students' perspective and skills.
Hours of Contact: 4 hrs per week
Assumed Knowledge: TAFE201 Advanced Programming

INFT3930 Information Technology Project
Unit Value: 10
Provides students with skills in the practical implementation of information technology projects. Integrates students' information technology knowledge and skills with their knowledge in application domains through the development of a major group project. Equips students with project management and development skills.
Hours of Contact: 4 hrs per week
Assumed Knowledge: TAFE201 Advanced Programming

INFT3940 Information Technology Applications
Unit Value: 10
Expands and integrates students' information technology skills and knowledge through the investigation of specific information technology applications. Considers how a range of information technology components is combined in solving relevant problems. Integrates students' information technology knowledge and skills with their knowledge in application domains.
Hours of Contact: 4 hrs per week
Assumed Knowledge: TAFE201 Advanced Programming

INFT4220 Applied Information Technology Honours B
Unit Value: 20
Students undertaking this honours program will develop an understanding of methodological and theoretical issues as well as performing research appropriate to an honours level degree within applied information technology. The four honours courses together provide research skills to carry out individual, original research to academic and professional standards in applied information technology. The courses develop the capability to think independently and critically whilst increasing competency in reviewing literature, addressing research questions, selecting and applying research methods, and presenting findings from theoretical or empirical research in a scholarly manner.
Assumed Knowledge: Admission to Honours Program

INFT4240 Applied Information Technology Honours C
Unit Value: 20
Students undertaking this honours program will develop an understanding of methodological and theoretical issues as well as performing research appropriate to an honours level degree within applied information technology. The four honours courses together provide research skills to carry out individual, original research to academic and professional standards in applied information technology. The courses develop the capability to think independently and critically whilst increasing competency in reviewing literature, addressing research questions, selecting and applying research methods, and presenting findings from theoretical or empirical research in a scholarly manner.
Assumed Knowledge: Admission to Honours Program

INFT4260 Applied Information Technology Honours D
Unit Value: 20
Students undertaking this honours program will develop an understanding of methodological and theoretical issues as well as performing research appropriate to an honours level degree within applied information technology. The four honours courses together provide research skills to carry out individual, original research to academic and professional standards in applied information technology. The courses develop the capability to think independently and critically whilst increasing competency in reviewing literature, addressing research questions, selecting and applying research methods, and presenting findings from theoretical or empirical research in a scholarly manner.
Assumed Knowledge: Admission to Honours Program

IRES1020 Believing in Australia
Unit Value: 10
Provides students with an historical introduction to religious studies in the Australian context including the major Christian traditions, Aboriginal religions and missions, and the world religions in post-war Australia. In addition, it will address questions such as the nature of religious belief, and whether or not Australia has any distinctive forms of religious belief and practice. Overall, it provides a tertiary-level introduction for students who may go on to teach the new HSC Studies in Religion syllabus.
Contact hours: 2 hours per week
Assumed Knowledge: None

IRES3120 History of Religions
Unit Value: 10
Provides a cross-cultural study of the principal features of the world’s major non-Judeo-Christian religions (Hinduism, Buddhism and Islam, and a selection of other traditions) through reference to key events, characters, beliefs and related phenomena. With regard to each tradition, there will be a focus on historical and contemporary features.
Assumed Knowledge: 40 units at 100-level in a relevant discipline

IRES3210 Topics in Religious Studies
Unit Value: 10
Allows students to follow a course of directed readings in religious studies. In close consultation with available staff, students will develop a program which can include religious history, phenomenology, history of religions, religion and technology, religion in the classical Greek and Roman world, and religious topics in anthropology and philosophy.
Assumed Knowledge: 40 units at 1000-level in a relevant discipline

IHRR110 Intro to Management & Organisational Behaviour
Unit Value: 10
Examines the theories and ideas underlying management and organisational behaviour. Provides exposure to the more practical aspects of work in organisations. IHRR110 is organised to give a general introduction to human behaviour and management, including an examination of individual behaviour followed by, the study of groups and group processes, the organisation, management and management practices. Where appropriate, guest lecturers from industry provide examples of management in practice.
Contact hours: 4 hours per week
Assumed Knowledge: Nil
IRHR2010 Introduction to Industrial Relations
Unit Value: 10
Provides an introduction to the study of industrial relations and delineates its essential concepts. It does this by considering the historical dimensions of work and the employment relationship and the origins and the development of industrial relations up to the present time. Particular detailed attention is given to the present day structures and characteristics of employer representation, management and employers' associations. This is complemented by an examination of the role of the state, and how recent systemic changes affect state regulation and the workplace.
Assumed Knowledge: IRHR1110

IRHR2020 Australian Industrial Relations System
Unit Value: 10
Provides a detailed understanding of the contemporary features of Australia's system of industrial relations, focusing on the institutional and legislative framework. The course examines the nature and operation of awards, the evolution of wages policy, the shift to enterprise bargaining and individual employment contracts, the impact of workplace reform on productivity and equity, legal rights and protections for employees, the role and structure of the Australian Industrial Relations Commission and the reform agenda of government.
Contact hours: 3 hours per week
Assumed Knowledge: IRHR2020

IRHR2200 Business Communications
Unit Value: 10
Introduces students to not just the fundamentals of oral, written and electronic communication in the modern business world but also to the various forms of interpersonal and intra-group communication that are essential elements in organisational effectiveness. These include negotiations, conflict resolution, interviews and meetings. While relevant theories are integrated into the content, the presentation of the course relies heavily upon practical application and this will be reflected in the assessment.
Contact hours: 3 hours per week
Assumed Knowledge: 40 units at the 100 level

IRHR2270 Human Resource Management
Unit Value: 10
Develops a critical understanding of the role and functions of the various personnel/human resource activities in an organisation. Topics include job analysis and design, recruitment, evaluation, payment systems, employee termination, training and the impact of legislation on the technological change on the human resource function.
Contact hours: 3 hours per week
Assumed Knowledge: It is recommended students complete IRHR111 prior to undertaking this course

IRHR2280 Organisational Structures & Design
Unit Value: 10
Focuses on fundamental issues of organisation design. It exposes students to the various theories and models underlying trade-offs and choices in organisation structures. The course delineates the problems which arise in designing effective organisations and addresses the central issues of the relationship between the structures and processes of organisations. Aspects such as the effects of size, technology, environments, corporate strategies and corporate cultures on the structuring of organisations are critically examined. Experiential exercises and contemporary case studies are used throughout the course.
Assumed Knowledge: Basic/Introductory Organisational Behaviour (IRHR1110 or equivalent)

IRHR2400 Australian Labour History
Unit Value: 10
Examines the changing nature of work for women and men in Australia. Focus is on the political and cultural traditions of the labour movement and the development of trade unions. The importance and significance of the labour movement in Australian industrial relations is considered.
Contact hours: 2 hours per week lecture 1 hour tutorial every alternate week
Assumed Knowledge: IRHR1110 - Introduction to Management & Organisational Behaviour

IRHR3010 Advanced Employment Relations
Unit Value: 10
Integrates issues and perspectives in industrial relations, human resource management and organisational theory at an advanced level. Examines the strategies and methods adopted by management to structure its relationship with employees. It also addresses the role of trade unions in transforming the organisational culture of workplaces. There is an applied focus through the study of selected industries.
Contact hours: 3 hours per week
Assumed Knowledge: IRHR2020 - Introduction to Industrial Relations AND IRHR2280 - Australian Industrial Relations System

IRHR3020 International & Comparative Industrial Relations
Unit Value: 10
Develops an understanding of international and comparative industrial relations. In particular, the course examines industrial relations institutions and labour standards regulation at an international level, and it compares the framework, conduct and performance of industrial relations in a number of selected countries. The course draws implications from international experience for industrial relations reform in Australia.
Contact hours: 3 hours per week
Assumed Knowledge: IRHR2020

IRHR3030 Workplace Industrial Relations
Unit Value: 10
Addresses the nature and direction of industrial relations reform at workplace level in the context of change in the economy and labour market. It examines the factors influencing the shift to enterprise bargaining and workplace reform and it explores the processes and outcomes of bargaining, including the equity impact. This examination includes a consideration of theoretical debates in the area, especially those concerning new production systems, the labour process, flexibility and strategic choice, and the role of employers, trade unions and the state.
Assumed Knowledge: IRHR2020

IRHR3040 Negotiation and Advocacy
Unit Value: 10
Provides students with a theoretical understanding and practical skills in negotiation, mediation and advocacy. Addresses issues at workplace level and in the wider system of enterprise bargaining, awards and industrial tribunals. Topics include: the nature and sources of conflict, the nature of negotiation, mediation and advocacy, distributive bargaining and interdependence, planning and strategy, communication and persuasion. Power in negotiations, third party intervention and the ethics of negotiation and advocacy. Content is supplemented with readings, cases and experiential exercises.
Contact hours: 3 hours per week
Assumed Knowledge: Pre-Requisites: IRHR202 Australian Industrial Relations Systems

IRHR3320 Contemporary Management Issues
Unit Value: 10
Students examine contemporary management issues. Focuses on the necessary interactions and linkages between the fundamental areas of management, including finance, business ethics, organisational change, industrial relations and human resources management and marketing.
Contact hours: 2 hours per week
Assumed Knowledge: It is recommended students complete IRHR111 prior to undertaking this course

IRHR3470 Organisational Change
Unit Value: 10
Examines the theories, frameworks and models of change within the organisational setting and addresses the viability of the contemporary organisation. The increasing dynamism of external and internal organisational environments is seen as both a strategic determinant and rationale for change within organisations. Seeks to show how and why managerial responses to such dynamism are increasingly centred around the successful management of change processes. In this context, it explores the mechanisms of change and improvement in organisations.
Contact hours: 2 hours per week
Assumed Knowledge: Basic/Introductory Organisational Behaviour AND Organisation Theory (IRHR111 AND IRHR228 or equivalent)

IRHR3510 Human Resource Development
Unit Value: 10
Provides an understanding of activities and processes that are intended to have impact on organisational and individual learning. The focus is on interventions which change, or improve the ability to change, organisational behaviour. Interventions can range from the strategic to the functional areas of training and development. Topics include the strategic role of human resource development, organisational and individual analysis, adult learning styles, technology and learning, management education, vocational education and training and training and development strategies.
Contact hours: 2 hours per week
Assumed Knowledge: Pre-Requisites: EMPS227

IRHR3530 Organisational Psychology
Unit Value: 10
Examines human behaviour in the workplace and the psychology behind common personnel practices, such as employee selection and stress management programs. Topics include personality and aptitude testing, personnel selection and assessment processes, work behaviour modification programs, work attitudes, training and learning at work, career choice and development, work and mental health, and the impact of technology at work.
Assumed Knowledge: It is assumed that students have little formal knowledge of psychology but have successfully completed studies in a related discipline such as organisational behaviour.
IRHR5540 International Human Resource Management

Unit Value: 10

Aims to develop a critical understanding of the role and functions of the various personnel/human resource activities in an international context. It provides an overview of the comparative and human resource management issues associated with operating in an international business environment. In doing so, the course addresses the literature in Human Resource Management, Organisational Behaviour and Comparative Management. The course of International HRM is a relatively new area of academic/professional interest and the course will draw on case and reading material. Case studies will be used to expose students to the various human resource management issues that emerge when organisations operate in an international context.

Contact hours: By arrangement

Assumed Knowledge: IRHR227

IRHR4100 Ind Relations & Human Resource Management IVA

Unit Value: 10

Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a research thesis and explores practical, theoretical and methodological issues in industrial relations and human resource management.

Contact hours: By arrangement

Assumed Knowledge: Admission to the Honours program

IRHR4110 Ind Relations & Human Resource Management IVB

Unit Value: 10

Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Assumed Knowledge: Admission to the Honours program

IRHR4120 Ind Relations & Human Resource Management IVC

Unit Value: 10

Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Assumed Knowledge: Admission to the Honours program

IRHR4130 Ind Relations & Human Resource Management IVD

Unit Value: 10

Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.

Assumed Knowledge: Admission to the Honours program

IRHR4150 Thesis in Industrial Relations & HRM - Part I

Unit Value: 20

Provides students with an opportunity to develop research skills and demonstrate their command of theory and research methods through their application in an original piece of empirical research.

Contact hours: By arrangement

Assumed Knowledge: Admission to the Honours program

IRHR4160 Thesis in Industrial Relations & HRM - Part II

Unit Value: 20

The thesis develops research skills and demonstrates student command of theory and research methods through application in an original piece of empirical research. The thesis of approximately 20,000 words embodies an original investigation of an approved topic in industrial relations and/or human resource management. Students must demonstrate competence in reviewing the appropriate literature, developing appropriate research questions and research methodologies, undertaking fieldwork and presenting the findings in a scholarly manner.

Contact hours: By arrangement

Assumed Knowledge: Admission to the Honours program

J

JAPN1110 Elementary Japanese I

Unit Value: 10

Designed for those with little or no previous knowledge of Japanese, the course provides basic foundation in pronunciation, vocabulary, grammar and the writing system of the language. The Japanese syllabaries (Hiragana and Katakana) are immediately introduced.

Contact hours: 5 hours per week

Assumed Knowledge: Nil

JAPN1120 Elementary Japanese II

Unit Value: 10

Designed for those with a knowledge of Japanese equivalent to a pass in JPN111. The course continues to provide basic knowledge with regard to vocabulary, grammar and the writing system of the language. Approximately 150 Chinese characters are introduced.

Contact hours: 5 hours per week

Assumed Knowledge: JPN111

JAPN2110 Intermediate Spoken Japanese I

Unit Value: 10

Designed for those with an understanding of simple Japanese. In this course more advanced forms of grammar are studied including transitive and intransitive verbs; verbs of giving and receiving; honorifics, conditionals and the causative and passive forms of the verb.

Contact hours: 3 hours per week

Assumed Knowledge: JPN112

JAPN2120 Intermediate Spoken Japanese II

Unit Value: 10

Designed for those with an understanding of intermediate level Japanese grammar. In this course students continue to review and practice their existing knowledge and to learn to apply their knowledge to the analysis and production of situational Japanese.

Contact hours: 3 hours per week

Assumed Knowledge: JPN211

JAPN2210 Intermediate Written Japanese I

Unit Value: 10

Designed to develop a student’s Japanese reading and writing skills and further cultural knowledge. It will be mainly based on the study of the text ‘Chukyu Nihongo’ edited by Tokyo Gaikokugo Daigaku.

Contact hours: 3 hours per week

Assumed Knowledge: JPN112 or the equivalent knowledge

JAPN2220 Intermediate Written Japanese II

Unit Value: 10

Designed to complete the learning in JPN211 and to develop students’ Japanese reading and writing skills and further cultural knowledge. It will be mainly based on the study of the text ‘Chukyu Nihongo’ edited by Tokyo Gaikokugo Daigaku.

Contact hours: 3 hours per week

Assumed Knowledge: JPN211 or the equivalent knowledge

JAPN2310 Text and Cinema as Parody

Unit Value: 10

Extends students’ knowledge of modern Japanese grammar and vocabulary, and of modern Japanese literature and cinema, by selected readings of contemporary texts and by viewing related videos.

Assumed Knowledge: Distinction or above in JAPN1120 or equivalent knowledge

JAPN2320 Text and Cinema as Narrative

Unit Value: 10

Extends students’ knowledge of modern Japanese grammar and vocabulary, and of modern Japanese literature and cinema, by selected readings of contemporary texts and by viewing related videos.

Assumed Knowledge: Credit or above in JAPN1120 or equivalent knowledge

JAPN3110 Advanced Spoken Japanese I

Unit Value: 10

Focuses on improving students’ skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.

Contact hours: 3 hours per week

Assumed Knowledge: JPN212 Intermediate Spoken Japanese II.

JAPN3120 Advanced Spoken Japanese II

Unit Value: 10

Focuses on further improving students’ skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.

Contact hours: 3 hours per week

Assumed Knowledge: Advanced Spoken Japanese I.
JAPN3210  Advanced Written Japanese I  
Unit Value: 10  
Designed to develop reading and writing skills and cultural knowledge at an advanced level. It is based on the study of essays, short stories, poems and newspapers.  
Contact hours: 3 hours per week  
Assumed Knowledge: JPN222 or equivalent  

JAPN3220  Advanced Written Japanese II  
Unit Value: 10  
Designed to develop reading and writing skills and cultural knowledge at an advanced level. It is based on the study of essays, short stories, poems and newspapers.  
Contact hours: 3 hours per week  
Assumed Knowledge: JPN222 or equivalent  

JAPN3310  Communication in Japanese I  
Unit Value: 10  
Designed to develop listening, speaking, reading and writing skills in Japanese. It will be based on videos, films, newspapers, magazine articles and excerpts from essays.  
Contact hours: 3 hours per week  
Assumed Knowledge: JPN212 and JPN222  

JAPN3320  Communication in Japanese II  
Unit Value: 10  
Designed to further develop listening, speaking, reading and writing skills in Japanese. It will be based on videos, films, newspapers, magazine articles and excerpts from essays.  
Contact hours: 3 hours per week  
Assumed Knowledge: JPN212 and JPN222  

JAPN3510  Advanced Japanese Language Studies 1  
Unit Value: 20  
Concentrates on the work of seven major poets of modern Japan, beginning with Yosano Akiko (1878-1942) and focuses specifically on those writing in the period from the 20s up to the immediate aftermath of the war. One or more poems by these poets will be read and translated each two hour session. Long Essay is compulsory.  
Assumed Knowledge: Credit in any 2000 level Japanese course  

JAPN3520  Advanced Japanese Language Studies 2  
Unit Value: 20  
Concentrates on the work of several well-known contemporary women poets including Yoshihara Sachiho, Tomiska Takuo and Ito Hiromi. One or more poems by these poets will be read and translated each two hour session.  
Assumed Knowledge: Any 200 level Japanese course  

JAPN3610  Japanese Civilisation I  
Unit Value: 10  
Develops language skills and analytical ability through the study of Japanese civilisation in a broad historical perspective, using written as well as audiovisual materials in Japanese and English. The focus is on Japanese history from ancient times to the mid-nineteenth century.  
Contact hours: 3 hours per week  
Assumed Knowledge: JPN222 Intermediate Written Japanese II.  

JAPN3620  Japanese Civilisation II  
Unit Value: 10  
Develops language skills and analytical ability through the study of Japanese civilisation in a broad historical perspective, using written as well as audiovisual materials in English and Japanese. The focus is on Japanese history from the middle of the nineteenth century to present times.  
Contact hours: 3 hours per week  
Assumed Knowledge: Intermediate Written Japanese II  

JAPN4150  Japanese Honours 1  
Unit Value: 20  
The courses JPN415, JPN416, JPN417 and JPN418 comprise the honours program, and are to be studied in conjunction with each other. Students undertake coursework study from three areas chosen from five modules offered in such subject areas as modern Japanese literature, classical Japanese literature, Japanese history, Japanese society and Japanese language/linguistics. In addition, students are required to write a major thesis in one of the areas listed above.  
Assumed Knowledge: A successfully completed undergraduate degree with a major in Japanese with credits or above at 300 level, or equivalent.  

JAPN4160  Japanese Honours 2  
Unit Value: 20  
The courses JPN415, JPN416, JPN417 and JPN418 comprise the honours program, and are to be studied in conjunction with each other. Students undertake coursework study from three areas chosen from five modules offered in such subject areas as modern Japanese literature, classical Japanese literature, Japanese history, Japanese society and Japanese language/linguistics. In addition, students are required to write a major thesis in one of the areas listed above.  
Assumed Knowledge: A successfully completed undergraduate degree with a major in Japanese with credits or above at 300 level, or equivalent.  

JAPN4170  Japanese Honours 3  
Unit Value: 20  
The courses JPN415, JPN416, JPN417 and JPN418 comprise the honours program, and are to be studied in conjunction with each other. Students undertake coursework study from three areas chosen from five modules offered in such subject areas as modern Japanese literature, classical Japanese literature, Japanese history, Japanese society and Japanese language/linguistics. In addition, students are required to write a major thesis in one of the areas listed above.  
Assumed Knowledge: A successfully completed undergraduate degree with a major in Japanese with credits or above at 300 level, or equivalent.  

JAPN4180  Japanese Honours 4  
Unit Value: 20  
The courses JPN415, JPN416, JPN417 and JPN418 comprise the honours program, and are to be studied in conjunction with each other. Students undertake coursework study from three areas chosen from five modules offered in such subject areas as modern Japanese literature, classical Japanese literature, Japanese history, Japanese society and Japanese language/linguistics. In addition, students are required to write a major thesis in one of the areas listed above.  
Assumed Knowledge: A successfully completed undergraduate degree with a major in Japanese with credits or above at 300 level, or equivalent.
LATN1010 Elementary Latin I
Unit Value: 10
Introduces students to the study of Latin. Reading in the original language is accompanied by basic grammatical and syntactical instruction.
Contact hours: 4 hours per week
Assumed Knowledge: None.

LATN1020 Elementary Latin II
Unit Value: 10
Introduces students to the study of Latin of the Classical Period, with an emphasis on the 2nd century BC to the 2nd century AD. Reading in the original language is accompanied by basic grammatical and syntactical instruction.
Contact hours: 4 hours per week
Assumed Knowledge: LAT101 or equivalent.

LATN2110 Latin for Historians I
Unit Value: 10
Introduces the study of Latin for those needing to read Latin sources, involving basic grammar and syntax, prescribed reading, and problem solving exercises.
Contact hours: 4 hours per week
Assumed Knowledge: 20 units at 1000 level in Ancient History or Greek

LATN2120 Latin for Historians II
Unit Value: 10
Further Latin for those needing to consult sources in the Latin language, involving further grammar, syntax, reading, and problem-solving.
Contact hours: 4 hours per week
Assumed Knowledge: LATN2110

LATN2510 Intermediate Latin
Unit Value: 20
Consists of parallel reading grammar classes, and introduces students to the reading and comprehension of major Latin classics. It facilitates entry to the other Advanced level Latin courses which lead to a major (LATN3520, 3530, 3540, 3550).
Contact hours: 4 hours per week
Assumed Knowledge: 20 units of Latin at 1000 level

LATN3540 Advanced Latin C
Unit Value: 20
One of four advanced level Latin courses enabling students to proceed to a major in Latin. They consist of parallel reading and grammar classes, and provide students with the opportunity to read and comprehend the major Latin classics.
Only two of the courses LATN3520, LATN3530, LATN3540, LATN3550 will be offered in any given year.
Assumed Knowledge: Equivalent to 20 units of Latin at 1000 level + LATN2510

LATN3550 Advanced Latin D
Unit Value: 20
One of four advanced level Latin courses enabling students to proceed to a major in Latin. They consist of parallel reading and grammar classes, and provide students with the opportunity to read and comprehend the major Latin classics.
Only two of the courses LATN3520, LATN3530, LATN3540, LATN3550 will be offered in any given year.
Assumed Knowledge: Equivalent to 20 units of Latin at 1000 level + LATN2510

LATN4640 Latin Honours I
Unit Value: 20
This course is studied in conjunction with LATN4650, LATN4660, and LATN4670. The four courses together constitute an Honours program in the language and literature of ancient Latin from Homer until the early centuries AD, aimed at an in depth understanding of various aspects of the Latin world enhanced by a sensitive understanding of original Latin literature.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4650 Latin Honours II
Unit Value: 20
This course is studied in conjunction with LATN4640, LATN4660, and LATN4670. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Latin from Homer until the early centuries AD, aimed at an in depth understanding of various aspects of the Latin world enhanced by a sensitive understanding of original Latin literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4660 Latin Honours III
Unit Value: 20
This course is studied in conjunction with LAT464, LAT465, and LAT467. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Latin from Homer until the early centuries AD, aimed at an in depth understanding of various aspects of the Latin world enhanced by a sensitive understanding of original Latin literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4670 Latin Honours IV
Unit Value: 20
This course is studied in conjunction with LAT464, LAT465, and LAT466. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours programme in the language and literature of ancient Latin from Homer until the early centuries AD, aimed at an in depth understanding of various aspects of the Latin world enhanced by a sensitive understanding of original Latin literature. The major modes of delivery will be through small classes in which the works of target authors are read, and thesis supervision where applicable, by internal mode on the Callaghan Campus.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LAW1001A Legal System & Method - Part A
Unit Value: 10
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Examines the Australian legal system, the constitutional framework and the development of sources of law, including the common law and legislation. The subject introduces ethical considerations for the legal profession and develops analytical and interpretative skills. Students undertake exercises in library and computer research techniques and begin to practise legal skills in interviewing clients, letter writing, negotiating settlements, drafting documents and running simple legal matters.
Contact hours: 4 hours per week.
Assumed Knowledge: Nil

LAW1001B Legal System & Method - Part B
Unit Value: 10
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Examines the Australian legal system, the constitutional framework and the development of sources of law, including the common law and legislation. The subject introduces ethical considerations for the legal profession and develops analytical and interpretative skills. Students undertake exercises in library and computer research techniques and begin to practise legal skills in interviewing clients, letter writing, negotiating settlements, drafting documents and running simple legal matters.
Contact hours: 4 hours per week.
Assumed Knowledge: Nil

LAW1002A Criminal Law & Procedure - Part A
Unit Value: 10
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Introduces the principles of criminal responsibility and considers a broad range of criminal offences, major defences, aspects of criminal procedure, sentencing and the role of criminal law in society. The subject will focus upon the law of New South Wales. During a clinical component students are placed with a legal practitioner to observe the preparation and presentation of criminal cases in a Local Court.
Contact hours: 3 hours including 1 tutorial hour per week.
Assumed Knowledge: Nil
LAWS1002B  Criminal Law & Procedure - Part B  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Introduces the principles of criminal responsibility and considers a broad range of criminal offences, major defences, aspects of criminal procedure, sentencing and the role of criminal law in society. The subject will focus upon the law of New South Wales. During a clinical component students are placed with a legal practitioner to observe the preparation and presentation of criminal cases in a Local Court.  
Contact hours: 3 hours including 1 tutorial hour per week.  
Assumed Knowledge: Nil

LAWS2003A  Torts - Part A  
Unit Value: 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Examines the rules of law which impose liability for civil wrongs. Both common law rules and statutory schemes are considered, as well as remedies, particularly the assessment of damages.  
Contact hours: 4 hours per week (3 lecture hours per week and 1 tutorial per week).  
Assumed Knowledge: LLB103A, LLB103B, LLB104A and LLB104B for students enrolled in combined law degree programs

LAWS2003B  Torts - Part B  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Examines the rules of law which impose liability for civil wrongs. Both common law rules and statutory schemes are considered, as well as remedies, particularly the assessment of damages.  
Contact hours: 4 hours per week.  
Assumed Knowledge: LLB103A, LLB103B, LLB104A and LLB104B for students enrolled in combined law degree programs

LAWS3004A  Contracts - Part A  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Examines the principles of contract law, including formation, consideration, capacity, privity, terms and conditions, discharge and remedies. The subject considers the functions of contract law and its limitations, contract theories and the historical background to the law of contract together with the forces which are shaping its development. Each student undertakes a clinical exercise in legal drafting.  
Contact hours per week: 4 hours includes a one (1) hour tutorial  
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A and LLB203B for students enrolled in combined law degree programs

LAWS3004B  Contracts - Part B  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Examines the principles of contract law, including formation, consideration, capacity, privity, terms and conditions, discharge and remedies. The subject considers the functions of contract law and its limitations, contract theories and the historical background to the law of contract together with the forces which are shaping its development. Each student undertakes a clinical exercise in legal drafting.  
Contact hours: 4 hours includes a one (1) hour tutorial per week  
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A and LLB203B for students enrolled in combined law degree programs

LAWS3005  Property  
Unit Value: 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Examines the principles of property and interests in property, covering such topics as distinctions between real, personal and intangible property, notions of title and ownership, distinctions between legal and equitable interests in property, and the enforceability of proprietary interests.  
Contact hours: 4 hours per week  
(3 lecture hours per week and one tutorial hour per week)  
Assumed Knowledge: LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, for students enrolled in combined law degree programs  
LLB graduates: Nil

LAWS4001  Constitutional Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Introduces the main theories and principles of federal constitutional law. The division of power between Commonwealth and State legislatures is examined, as well as the structure and powers of the executive and the judiciary. The relationship between the different arms of government and the operation of Australian federalism is also considered. An introduction to rights and freedoms under the Commonwealth Constitution is considered.  
Contact hours: 4 hours plus optional tutorial per week.  

LAWS4002  Administrative Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Examines the exercise of statutory power by administrative agencies and officials, and the means by which administrative decisions may be reviewed and challenged. Judicial review of administrative action, and extra-judicial redress such as ombudsmen and freedom of information legislation, are also considered.  
Contact hours: 4 hours per week.  

LAWS4003  Civil Procedure  
Unit Value: 10  
Primarily about the resolution of civil disputes by means of court adjudication. It examines the law of civil procedure and related matters including professional responsibility and ethics, from the time instructions are received to the enforcement of judgment. Areas covered include the commencement of proceedings, service of process and pre-hearing interlocutory processes. The rules and practice applied in the Supreme Court of New South Wales are examined in detail, but reference is made to the practice in other jurisdictions. Also examines alternative means of resolving disputes and explores issues raised in the recent report by the Australian Law Reform Commission, “Managing Justice: A review of the federal justice system.” Current developments in civil justice reform, in particular, case management, alternative dispute resolution (ADR), costs orders and the role of experts are covered.  
Contact hours: 3 hours per week  

LAWS4004  Evidence  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Examines the legal rules governing the proof of facts in civil and criminal trials. Topics include relevance, competency and competency, kinds of evidence, the examination of witnesses, burdens and standards of proof, illegally obtained evidence and the rule against hearsay and its exceptions.  
Classes usually held at University House.  
Contact hours: 3 hours per week  

LAWS4005  Company Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Examines the notion of corporate personality and the regulation of corporations, covering such topics as the incorporation process and management and control of a company. Students also compare the various means of conducting business in associations such as companies and partnerships.  
Classes usually held at University House.  
Contact hours: 3 hours per week.  
LAWS4006 Jurisprudence  
**Unit Value:** 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Considers images of law presented by modern legal positivists, especially the theories of H.L.A. Hart, and the contrast with images portrayed in traditions of natural law; and post-positivist perspectives concerning interpretive processes of law and especially theories put forward by Ronald Dworkin.  
Classes usually held at University House.  
Contact: 4 hours per week  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302.

LAWS4007 Professional Conduct  
**Unit Value:** 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Examines the role of the legal profession and the legal and ethical responsibilities of practitioners. Students consider the history, structure and regulation of the legal profession, before focusing on the duties and obligations of its members to the courts, clients, fellow practitioners and other parties. Plus 18 hours Trust Accountancy workshops.  
Contact hours: 2 hours per week  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302.

LAWS4008 Equity  
**Unit Value:** 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Introduces the concepts and principles which have been developed by the courts in the exercise of the equitable jurisdiction. Topics will include: the nature and history of equity; equitable rights; equitable assignments; estoppel in equity; fiduciary obligations; unconscionable transactions and equitable remedies.  
Contact: 3 hours per week  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302.

LAWS4010 Equity and Trusts  
**Unit Value:** 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.  
Introduces the concepts and principles which have been developed by the courts in the exercise of the equitable jurisdiction.  
Introduces the notion of the trust and explains the ways the trust operates in personal and commercial situations. Topics include: the nature and growth of the trust concept; the creation of express trusts; trusts which arise by the operation of law; modern uses and commercial situations. Topics include: the nature and history of equity; equitable rights; equitable assignments; estoppel in equity; fiduciary obligations; unconscionable transactions and equitable remedies.  
Contact: 4 hours per week  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302.

LAWS4051A Trial Process - Part A  
**Unit Value:** 10  
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LLB/DipLegPrac) degree program.  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Covers trial preparation, trial technique and advocacy in both civil and criminal jurisdictions.  
Involves different types of advocacy exercises in various courts namely the Local, District and Supreme Courts of New Wales and the Family and Federal Courts of Australia.  
Seminars are held on specialist jurisdictions namely the Guardianship Tribunal, the Victims Compensation Tribunal and the Land and Environment Court of New South Wales and specialist areas such as motor accidents.  
Classes usually held at University House.  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302, LLB404, LLB405.

LAWS4051B Trial Process - Part B  
**Unit Value:** 10  
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LLB/DipLegPrac) degree program.  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Covers trial preparation, trial technique and advocacy in both civil and criminal jurisdictions.  
Involves different types of advocacy exercises in various courts namely the Local, District and Supreme Courts of New Wales and the Family and Federal Courts of Australia.  
Seminars are held on specialist jurisdictions namely the Guardianship Tribunal, the Victims Compensation Tribunal and the Land and Environment Court of New South Wales and specialist areas such as motor accidents.  
Classes usually held at University House.  
**Assumed Knowledge:** LLB103A, LLB103B, LLB104A, LLB104B, LLB203A, LLB203B, LLB303A, LLB303B, LLB302, LLB404, LLB405.

Builds upon the course Legal Practice 1, focusing on the more advanced aspects of litigation and legal transactions. It gives some emphasis to professional responsibility and relevant ethical behaviour. Students undertake simulation exercises and attend legal office placements in litigation and legal transactions. This may include, placements with members of the Newcastle bar and with firms of solicitors in Newcastle and the Hunter Region.

Classes will be held at University House.

Contact hours: Up to 20 hours per week


LAWS5003 Advanced Criminal Law

Unit Value: 10

Explores some themes in the criminal law related to the importance of the mental element in crime generally together with advanced analysis of mental state defenses. Other topics will vary with each offering to reflect recent and significant issues in the criminal law and may include the role and impact of policing and prosecution agencies in the criminal justice system, the importance of sentencing law and practice, the federal-state framework of Australian criminal laws, the particular problem of criminal offending by indigenous Australians and the elements and investigation of some particular criminal offences. The contemporary issues examined in the subject will be set to reflect current reform and critical comment.

Contact hours: 3 hours per week


LAWS5005 Advanced Legal Research and Writing

Unit Value: 10

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

This subject is available to Bachelor of Laws (LLB) students who have obtained an average mark of 75% or more in all completed LLB subjects or by arrangement with the Dean. Refer to Faculty policy on Honours contained in the Faculty of Law Student Guide.

Consists of research and writing under supervision. The Honours subject co-ordinator will provide guidance to each candidate concerning the definition of the topic of a proposed dissertation, and will also arrange appropriate supervision and guidance to the candidate at all stages of the dissertation research program.

Contact hours: by arrangement with supervisor (weekly or fortnightly sessions)


The subject is only available to students in their final year of study in the LLB or LLB/Dip Leg Prac.

LAWS5006 Child Law

Unit Value: 10

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Examines areas of law which relate to children crossing traditional substantive law boundaries. Topics include childhood and adulthood, capacity, children as witnesses, international obligations, child protection, juvenile justice, family law issues, health law affecting children, aspects of education and homelessness.

Contact hours: 3 seminar hours per week


LAWS5007 Competition Law and Policy

Unit Value: 10

LAWS courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals generally with the operation of Part IV of the Trade Practices Act 1974. Topics include various types of contracts, arrangements and understandings which substantially lessen competition, monopolization, exclusive dealing, resale price maintenance and anti-competitive mergers. Reference is made to the common law relating to restraint of trade and the constitutional basis of the act, but not to Consumer Protection provisions of the Trade Practices Act.


LAWS5009 Employment Law

Unit Value: 10

LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals with the law governing the formation, content and termination of a contract of employment. The complex body of federal and state statutes which regulate the employment relationship, as well as common law rules, will be examined.

This LLB600 level elective course is offered on a rotating basis and subject to student demand.

Contact hours: 3 hours per week


LAWS5010 Environmental Law

Unit Value: 10

LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals primarily with New South Wales legislation relating to the physical and material environment, but also examines the roles of the Commonwealth and the common law in environmental regulation.

Contact hours: 3 hours per week


LAWS5011 Equal Opportunity Law

Unit Value: 10

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Deals with the concepts, institutions, legal principles, practice and jurisprudence of Australian federal and state equal opportunity law. Topics include the theoretical framework and historical development of equal opportunity protection in Australia, constitutional considerations, an overview of the Australian equal opportunity scheme, proving direct and indirect discrimination, sexual, racial, disability and age discrimination, equal opportunity procedure and remedies and the jurisdiction of industrial tribunals.

This LLB600 level elective subject is offered on a rotating basis and subject to student demand.

Contact hours: 2 lectures and 1 tutorial


LAWS5012 Forensic Analysis and Legal Practice

Unit Value: 10

LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Focusses on fact gathering and analysis and the application of law in both criminal and civil jurisdictions. The collection of evidence and its preparation for trial as well as its presentation at trial are important issues that are explored in depth in this subject. Specific study areas include: crime scene investigation; police investigative techniques including interrogation methods; accident investigation; government agency investigation; coroner’s inquests; analysis and use of expert evidence; physical evidence; postmortems; and the use of medical, psychiatric and psychological reports. This subject critically examines relevant legislation, case law and government policy requirements.

This LLB600 level elective subject is offered on a rotating basis and subject to student demand.

Contact hours: 3 hours per week


LAWS5013 Health Law

Unit Value: 10

LAWS courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.

Introduces students to a range of laws governing health issues and policy issues which will need to be addressed as scientific knowledge advances. Topics to be considered in detail include consent to treatment, professional liability, guardianship, mental health legislation, legal regulation of reproduction, legal regulation of medical research and euthanasia.

This LAWS 5500 level elective course is offered on a rotating basis and subject to student demand.

LAWS5015 Intellectual Property Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
This subject develops knowledge and skills in the processes of writing, editing, publication and marketing for legal publishing. Through work on the Faculty’s Journal, The Newcastle Law Review, students are exposed to the publication process and gain practical experience in all stages of legal publishing, including research, writing and practical tasks. 
Hours: 3 scheduled hours per week 

LAWS5016 Law Review  
Unit Value: 10  
This subject is only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
This subject develops knowledge and skills in the processes of writing, editing, publication and marketing for legal publishing. Through work on the Faculty’s Journal, The Newcastle Law Review, students are exposed to the publication process and gain practical experience in all stages of legal publishing, including research, writing and practical tasks. 
Hours: 3 scheduled hours per week 

LAWS5018 Media Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Deals with selected areas of Australian media law, with some reference to other countries. Laws of defamation and contempt are discussed, as well as legal protection of privacy, access to information, regulation of the electronic media and print media regulations. 
Contact hours: 3 hours per week 

LAWS5019 Public Interest Advocacy  
Unit Value: 10  
LAWS courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
This is not a traditional law course. It draws upon academic, clinical and student knowledge, skill, experience, initiative, commitment and application to render a practical contribution to justice. Students are engaged in the supervised preparation and carriage of particular public interest cases or projects. From that engagement students will learn about law’s techniques, methods and limits in doing justice. Students will also develop lawyering skills such as legal research, analysis and problem solving, fact investigation, communication, counselling, negotiation, litigation and alternative dispute resolution, legal management and the resolution of ethical dilemmas. Classes usually held at University House. 
This LAWS 5000 level elective course is offered on a rotating basis and subject to student demand. 

LAWS5020 Public International Law  
Unit Value: 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree. 
Focuses upon the legal relations amongst states and other entities and individuals who are recognised in the international legal community. The topics to be discussed include the nature and sources of Public International Law; the relationship between international and municipal law; the various courts and bodies which administer international law; international personality and recognition; jurisdictional sovereignty and immunities from jurisdiction; state responsibility; the use of force in international law; international human rights and international criminal law. 
Contact hours: 3 hours per week 

LAWS5021 Sport and the Law  
Unit Value: 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Examines the relationship between sport and law, including the principles of law having particular relevance to sport. These principles range from liability in tort and crime for participants and administrators in sport generally through to contract and taxation issues for participants and sporting bodies, including the implications of television and corporate sponsorship. This is a developing specialist area of law which raises its own particular problems in the context of a traditional legal framework and concurrently highlights the development of various and innovative alternative dispute resolution mechanisms. 

LAWS5023 Socio-Legal Research Theory and Practice  
Unit Value: 10  
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
This course is intended to provide students with a critical understanding of the theory and practice of socio-legal research. This will involve an examination of the theoretical underpinnings of socio-legal research, as well as the major methods including both quantitative and qualitative techniques used in socio-legal research. Students will critically examine a range of socio-legal research projects, their methods, findings and implications. They will also develop a critical and reflexive understanding of socio-legal knowledge, the research process, methodology, and research ethics. 
This LAWS5000 level elective course is offered on a rotating basis and subject to student demand. 

LAWS5061 Commercial Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Introduces students to the laws governing commercial transactions, primarily in the area of personal property. The subject deals at length with the Sale of Goods Act and with product liability. Also covered is misleading or deceptive conduct under the Trade Practices Act and unconscionable business conduct. Briefly covered are some restrictive trade practices provisions, agency law, the law of guarantees and the law of insurance. Classes are held at University House and some classes are held at Callaghan Campus. 
Contact hours: 3 hours per week 

LAWS5062 Conveyancing  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Deals with law and practices governing the creation, transfer and encumbrance of interests in land, and related property and the law applying to different systems of land tenure, leases, mortgages, easements and covenants. Classes are usually held at University House. 
Contact hours: 2 hours a week 

LAWS5063 Family Law  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Introduces students to the law regulating family relationships. 
Classes usually held at University House. 
Contact hours per week: 3 

LAWS5064 Succession  
Unit Value: 10  
LLB subjects are only available to students enrolled in Bachelor of Laws (LLB) degree programs. 
Introduces students to the laws governing the distribution of property upon death. 
Topics include the nature and formalities of wills, testamentary capacity, the construction of wills, appointment of personal representatives, the powers and the duties of personal representatives, the rules of intestacy, and grants of administration. 
Classes usually held at University House. 
Contact hours: 3 hours per week 
LEGL2005 Contract Law 1  
Unit Value: 10  
This course is not available to students enrolled in a combined law degree program.  
Develops topics in contract introduced in LEGL1001 including consideration, estoppel, misrepresentation, duress, undue influence, the terms of the contract and the and ending of contractual obligations, with emphasis on modification of the common law by statute, eg consumer protection provisions.  
Assumed Knowledge: LEGL1001 Foundations of Law  

LEGL2006 Marketing Law  
Unit Value: 10  
An elective subject within the marketing major of the Bachelor of Business but is also appropriate for other majors in the Bachelor of Commerce, Business and Economics or for students in the Bachelor of Social Science.  
Seeks to examine selected aspects of the legal environment which impact on the marketing of products and services within Australia and overseas.  
Contact hours: 3 hours per week  
Assumed Knowledge: LAW101  

LEGL2007 Occupational Health and Safety Law  
Unit Value: 10  
This course is not available to students enrolled in a combined law degree program.  
This course gives students an understanding of the impact of the legal and regulatory system on health and safety in the workplace. It includes consideration of workplace management issues as they impact on and are affected by OH&S issues. Topics covered include: structure and functions of law and legal institutions in Australia as they relate to OH&S; an introduction to the employer/employee relationship; Tort Liability: Negligence, Breach of Statutory Duty; The "Occupational Health & Safety Act 2000 (NSW)" and related legislation; an introduction to the principles of Workers’ Compensation; issues in litigation and OH&S and anti-discrimination laws.  
Contact hours: 3 hours per week  
Assumed Knowledge: Nil  

LEGL2008 Child Law  
Unit Value: 10  
This subject is not available to students enrolled in a combined law degree program.  
Examines areas of law which relate to children crossing traditional substantive law boundaries. Topics include childhood and adulthood, capacity, children as witnesses, international obligations, child protection, juvenile justice, family issues, health law affecting children, aspects of education and homelessness.  
Contact hours: 3 hours per week.  
Assumed Knowledge: LAW101  

LEGL2009 Survey and Engineering Law  
Unit Value: 10  
The subject introduces students to the Australian legal system, including aspects of the Constitution and basic legal research. It has a focus on legal issues arising in the profession and practice of engineering, with special emphasis on surveying. In particular it has a strong emphasis on the concepts and classification of real property as they relate to boundary surveyors. It also deals with statutory control of land use, with reference to the Local Government Act 1993 and the Environmental Planning and Assessment Act 1979, and the regulation and legal liability of engineers and surveyors.  
Contact hours per week: 3  
Assumed Knowledge: Nil  

LEGL3001 Finance Law  
Unit Value: 10  
An elective subject within the Finance major of the Bachelor of Commerce but is also appropriate for other majors in the Bachelor of Commerce, Business and Economics.  
Seeks to examine selected aspects of the legal environment which impact on the banking and finance industry. Topics covered are drawn from the following: regulation of Australian financial institutions; banker-customer relationships; cheques and other negotiable instruments; electronic banking; laws regulating business and consumer finance and security; guarantees; debt recovery; bankruptcy and insolvency; international banking.  
Contact hours: 2 hours per week.  
Assumed Knowledge: LAW101, Students would be assisted if they have completed LAW230 or LAW204 or both.  

LEGL3002 Special Topic in Law 1  
Unit Value: 10  
Available only to students enrolled in the Bachelor of Law and Administration degree or Study Abroad or Exchange students. To undertake this subject, students must have the approval of the Head of the Department of Law. Topics will be chosen in consultation with the Department.  
Contact hours: By arrangement.  
Assumed Knowledge: None  

LEGL3003 Special Topic in Law 2  
Unit Value: 10  
Available only to Study Abroad or Exchange students. Topics will be chosen in consultation with the Department.  
Contact hours: By arrangement  
Assumed Knowledge: To undertake this course, students must have the approval of the Head of the Department of Law.
LEIS1060 Introduction to Tourism
Unit Value: 10
Introduces students to tourism, the tourism industry and tourism systems. It gives students the disciplinary and interdisciplinary grounding for further studies in tourism. This course has two aims: i) to encourage students to develop an understanding of the structure, functioning and control of the tourism industry, within both national and international contexts, and ii) to enable students to better understand the connection between tourism and the broader economic, physical and social contexts within which it is located.

Contact hours: 3 hours per week
Assumed Knowledge: There is no assumed knowledge for this course.

LEIS1110 Leisure and Society
Unit Value: 10
Introduces students to leisure as a social institution, examining the cultural and political practices and beliefs by which leisure is constituted and reconstituted. Drawing on the sociology of leisure, feminist theory, leisure studies and cultural studies, it interrogates current debates around the state of leisure in post-industrial society and conceptualisations of leisure in pre-industrial society. Attention is paid to the work-leisure dialectic, the commodification of leisure, and inequity in contemporary leisure experiences.

Contact hours: 3 hours per week
Assumed Knowledge: n/a

LEIS1120 Leisure Organisation in Australia
Unit Value: 10
Students who have completed LEIS104 are not permitted to enrol in LEIS112.
Examines the roles of government and the market in structuring the nature and distribution of leisure opportunities in Australian society, both past and present. Leisure Organisation in Australia analyses the relationship between the growth of the leisure industries and the roles assumed by different levels of government, and will consider the implications of these for leisure provision in a mixed economy. This analysis leads to a more extended review of the political and economic contexts of the arts and entertainment industries, sports provision, national parks, and tourism in Australia.

Contact hours: 3 hours per week
Assumed Knowledge: n/a

LEIS1130 Leisure Behaviour and Development
Unit Value: 10
Applies principles derived from Developmental Psychology, Social Psychology and Applied Behaviour Analysis to the study of leisure behaviour and experience throughout the lifespan. Theories relating to physical, cognitive, social and emotional development are applied to the study of human leisure.

Contact hours: 3 hours per week
Assumed Knowledge: n/a

LEIS1140 Leisure Management Practice I
Unit Value: 10
This course is available only to students enrolled in the Bachelor of Social Science (Recreation and Tourism).
Provides students with a foundation in professional practice. This course allows students to begin the process of developing an applied theoretical understanding of leisure, and demonstrating a range of selected competencies associated with leisure management practice. Leisure Management Practice I focuses on the integral relationship between planning principles and programming practices as they apply to leisure service environments.

Assumed Knowledge: n/a

LEIS2210 Leisure, Society and Contemporary Culture
Unit Value: 10
Takes a sociological approach to contemporary culture as well as drawing on the interdisciplinary field of Cultural Studies. Building on the introductory theoretical knowledge acquired in first year, this course is designed to develop in students a more detailed critical understanding of the relationship between society, popular culture, leisure and tourism. Emphasis in the subject will be placed on student presentations, independent research and tutorial discussions based on readings and in-depth analysis of various popular cultural forms.

Contact hours: 2 hours per week
Assumed Knowledge: LEIS111 or LEIS105 or SOCA101

LEIS2220 Leisure Interactions and Identity
Unit Value: 10
Extends an understanding of theories introduced in LEIS 113 used to explain leisure behaviour and experience at various stages of life. It covers four broad areas of study: the application of psychological theory to leisure behaviour and experience in everyday life; analysis of motivations, meanings and benefits of leisure through the lifespan; discussion of personal experiences of leisure in relation to social interaction, lifestyle, and opportunities and constraints to leisure; and the interrelationships amongst leisure experience, psychosocial development and engagement with everyday life.

Contact hours: 2 hours per week
Assumed Knowledge: LEIS 113

LEIS2230 Methods in Leisure Research
Unit Value: 10
This course is available only to students enrolled in the Bachelor of Social Science (Recreation and Tourism).
Seeks to provide students with an understanding of the research process and with a practical insight into research methods that are relevant to the study and management of leisure and tourism. This course builds on professional practices introduced in Leisure Management Practice I, and on theoretical understandings of the social scientific approaches to leisure developed in the core courses, Leisure and Society and Leisure Behaviour and Development. It informs the Applied Leisure Project course in third year. The course will also complement a third year elective course, Leisure and Tourism Research, designed for students wishing to undertake the Honours program.

Contact hours: 3 hours per week
Assumed Knowledge: Leisure Management Practice I (LEIS 114)

LEIS2310 Outdoor Recreation and Tourism Management
Unit Value: 10
This course is available only to students enrolled in the Bachelor of Social Science (Recreation and Tourism).
This course provides an important foundation for this research.

Assumed Knowledge: LEIS114 provides an important foundation for this course.

LEIS2320 Cultural Dimensions of Tourism
Unit Value: 10
Examines the cultural dimensions of tourism and, in particular, focuses on two important and inter-related aspects. The first of these relates to the ways in which tourism is implicated in the production and transmission of cultural forms, discourses and practices while the second aspect concerns the impacts that tourism has had, and continues to have, on Western and indigenous cultures.

Assumed Knowledge: LEIS111 or LEIS112 or LEIS106 or equivalent.

LEIS2330 Leisure, Tourism and Quality of Life
Unit Value: 10
This subject replaces two elective subjects LEIS203 and LEIS314.
Students who have completed these subjects cannot enrol in LEIS233.
Addresses philosophies, policies and strategies that support leisure as a basic human right. It examines the economic, social, personal and environmental constraints to leisure, and explores programmatic responses to these constraints. In accordance with the United Nations Declaration of Human Rights’s “Charter of Leisure”, particular attention is given to instances where leisure and recreation opportunities are denied for reasons of age, colour, sex, religion, race, disability or economic condition; contingencies in which leisure and recreation successfully accommodate self-fulfillment, the development of entrepreneurs that are relevant to tourism and social integration, international understanding and cooperation, and the strengthening of cultural identities.

Contact hours: 2 hours per week
Assumed Knowledge: Students are more likely to succeed in this subject if they have an understanding of the concept of leisure experience, and a general understanding of the physical, cognitive and psychosocial aspects of human development.
LEIS3110 Sport and Australian Society
Unit Value: 10
Takes a Sociological and Cultural Studies approach to sport, viewing it as both a social institution and as a form of popular culture in which pleasures are constructed, meanings are made, identities are shaped and ideologies reproduced. The social institution which is taken to be a pivotal influence on the development of the political economy of sport is the media. For this reason, there is a detailed examination of the relationship between sport and media as mutually interacting social institutions, each shaping and being shaped by the other (and also by other social institutions and structures). By adopting this approach, sport is situated in both its Australian and global context.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 200 level in LEIS, SOCA, HST courses or equivalent.

LEIS3130 Leisure, Tourism and Environmental Issues
Unit Value: 10
Critically interrogates some of the relationships between leisure practices such as recreation and tourism, and the physical environment. The environment is subject to a range of stresses created by a variety of leisure activities and students wishing to work as professionals in the leisure field need to have a sound understanding not only of the relationships between leisure and the environment, but also an ability to solve problems. The course also focuses on how our cultural understandings of nature are produced and reproduced through a variety of leisure practices.
Contact hours: 2 hours per week
Assumed Knowledge: 60 units at 200 level in LEIS or SOCA courses or equivalent.

LEIS3150 Tourism Policy and Planning
Unit Value: 10
Critically examines tourism planning as a process and as a set of techniques for sustainable tourism development. It focuses on the physical environment of tourism planning, and the social, cultural and political realities of tourism planning and policy making. Public and private sector roles are evaluated, as well as the nature of, and parameters and constraints relating to, tourism development in specific settings. Additional aims of the course are to develop an understanding of tourism policy-making processes, and to gain skills both in the evaluation of tourism plans and policies and in the development of strategic tourism plans.
Contact hours: 2 hours per week
Assumed Knowledge: LEIS 106 (Introduction to Tourism) and 60 units at 200 level in Leisure Studies or Business courses or equivalent.

LEIS3310 Directed Reading
Unit Value: 10
Allows students to study a topic of particular interest that cannot be accommodated within existing courses. It enables students who will be progressing to Honours, or who wish to develop their knowledge of a specific contemporary development in leisure, recreation, tourism, culture and related areas, to study a selected topic in depth. Each student is assigned an Academic Mentor from among the academic staff from within the Department of Leisure & Tourism Studies, who is also responsible for assessment of their work.
Contact hours: Equivalent to 1 hour per week
Assumed Knowledge: 60 units at 200 Level

LEIS3320 Critical Perspectives in Leisure
Unit Value: 10
Takes an inter-disciplinary approach to the critical analysis of contemporary leisure. Building on theoretical knowledge acquired in first and second years, this course is designed to develop in students a critical understanding of contemporary phenomena, such as globalisation and the impact on leisure, especially in regard to new technologies, environmental, cultural commodification, self-identity, lifestyle, and social contracts.
Contact hours: 2 hours per week
Assumed Knowledge: 10 units at 200 level in LEIS courses

LEIS3330 Leisure, Politics and the City
Unit Value: 10
Planning and placemaking processes are not neutral, technical activities but are deeply embedded in social, political and cultural contexts and occur both formally and informally. Building on theoretical knowledge gained from first and second year, the purpose of this course is to explore these processes and give students a comprehensive understanding of the critical issues associated with urban and regional planning and development. Selected case studies illustrate the relationship between leisure, tourism and the city.
Contact hours: 2 hours per week
Assumed Knowledge: 10 units at 200 level in LEIS courses

LEIS3350 Leisure Management Practice III
Unit Value: 10
This course is available only to students enrolled in the Bachelor of Social Science (Recreation and Tourism). Examines selected principles and practices associated with human resource management and financial management as they relate to leisure service organisations. Effective management practice in leisure service organisations is concerned with setting goals and meeting objectives and targets, achieving optimal use of human, financial and physical resources, meeting priority needs and offering the most attractive services to meet recreation and tourism demands. The course also seeks to develop student skills in handling financial information utilising the software programs Excel and Access.
Contact hours: 3 hours per week
Assumed Knowledge: LEIS224 provides an important foundation for this course.

LEIS3360 Applied Leisure Project
Unit Value: 10
Students must complete LEIS335 before enrolment in LEIS336. Students who have completed LEIS303 may not enrol in LEIS336.
This course is restricted to those students who are enrolled in the Bachelor of Social Science (Recreation & Tourism).
Uses self-directed and experiential learning as an approach to teaching, and, by the application of previous studies to an applied leisure project, seeks to develop and evaluate student mastery of selected competencies associated with best professional practice. A major outcome of this course will be the completion of a student portfolio that has been developed throughout the course.
Contact hours: 2 hours per week
Assumed Knowledge: LEIS3350 - Leisure Management Practice III

LEIS3420 Professional Practice in Outdoor Recreation
Unit Value: 10
This subject is available only to students enrolled in the Bachelor of Social Science (Recreation & Tourism). Develops knowledge and skills in the planning, leadership and management of outdoor recreation programs. The subject examines popular forms of outdoor recreation with a focus on the participation patterns of urban populations and local communities. It reviews professional practices in the major sectors of the outdoor recreation industries.
Contact hours: 2 hours per week plus 1 weekend field trip
Assumed Knowledge: LEIS114, and LEIS224
Students are more likely to succeed in this subject if they have completed the first and second year core professional studies subjects in the Bachelor of Social Science (Recreation and Tourism).

LEIS3430 Professional Issues in Community Recreation
Unit Value: 10
Extends students’ understanding of community recreation issues and selected organised responses. This subject focuses upon program-based interventions offered through selected community recreation sectors that promote personal, social, economic and/or environmental benefits to individuals, the community and society at large. Particular emphasis is placed upon developing understanding about the role the managerial and political climate plays in the structure and application of community-based recreation programs while exploring contemporary approaches to the delivery of intervention-based community recreation services.
Contact hours: 2 hours per week plus field trip
Assumed Knowledge: LEIS114, Leisure, Tourism and Quality of Life (LEIS233).

LEIS4080 Recreation and Tourism Honours I
Unit Value: 20
The Honours program allows students to undertake in-depth study of a topic in leisure, tourism and related areas (such as culture, arts, sport, recreation and media). It enables students to produce a thesis that is both directed to a particular research problem and demonstrates a sound theoretical grasp of its social and cultural context. Successful completion of Honours enables graduates to undertake research higher degrees and/or to pursue careers in the wider professional workforce.
Contact hours: By arrangement
Assumed Knowledge: Completion of undergraduate degree

LEIS4090 Recreation and Tourism Honours II
Unit Value: 20
The Honours program allows students to undertake in-depth study of a topic in leisure, tourism and related areas (such as culture, arts, sport, recreation and media). It enables students to produce a thesis that is both directed to a particular research problem and demonstrates a sound theoretical grasp of its social and cultural context.
Contact hours: Regular meetings with the Honours student’s supervisor as required throughout the semester.
Assumed Knowledge: Completion of an undergraduate degree
LEIS4100 Recreation and Tourism Honours III
Unit Value: 10
The Honours program allows students to undertake in-depth study of a topic in leisure, tourism and related areas (such as culture, arts, sport, recreation and media). It enables students to produce a thesis that is both directed to a particular research problem and demonstrates a sound theoretical grasp of its social and cultural context.
Contact hours: Regular meetings with Honours student's supervisor as required throughout the semester.
Assumed Knowledge: Completion of a undergraduate degree

LEIS4110 Recreation and Tourism Honours IV
Unit Value: 10
The Honours program allows students to undertake in-depth study of a topic in leisure, tourism and related areas (such as culture, arts, sport, recreation and media). It enables students to produce a thesis that is both directed to a particular research problem and demonstrates a sound theoretical grasp of its social and cultural context. Successful completion of Honours enables graduates to undertake research higher degrees and/or to pursue careers in the wider professional workforce.
Contact hours: By arrangement
Assumed Knowledge: Completion of undergraduate degree

LGAL1000 Law for Managers and Entrepreneurs
Unit Value: 10
Addresses key areas of law that are essential areas of knowledge for students who intend to undertake management or business careers. This subject will conduct a legal analysis of different business structures (e.g. sole traders, partnerships, companies and franchises); various facets of employment law both individual and collective; and the impact of trade practices legislation on management, business and entrepreneurial practice.
Contact hours: 2-3 hours per week.
Assumed Knowledge: None.

LING1110 Foundations of Language
Unit Value: 10
Introduces students to the study of language: how children acquire language, its communicative function, the structure it has that enables language to work, and what language reveals about the nature of human beings and human behaviour. It introduces basic linguistic concepts, and looks at the different levels of linguistic analysis, language variation (sociolinguistics; language and medium; types of written text), acquisition of spoken and written language, and the analysis of English sentence structure.
Contact hours: 4 hours per week
Assumed Knowledge: No assumed knowledge.

LING1120 Language Structure and Meaning
Unit Value: 10
Introduces analysis of language at the level of speech sounds and word structure, and the analysis of meaning from word level to the level of cohesive text. Examples will be drawn from a range of languages to illustrate the different ways in which information may be organised within a linguistic system. There will also be discussion of the sociolinguistic situation in multilingual communities in Australia, with particular attention to the role and status of community languages other than English.
Contact hours: 3 hours per week
Assumed Knowledge: None.

LING3060 Current Issues in Linguistics
Unit Value: 10
Allows students to follow a course of directed readings in an area of current relevance in Linguistics. Topics addressed will be chosen from issues such as language in education, language acquisition and linguistic theory, social variation in language, recent advances in syntactic theory, cross-cultural pragmatics etc.
Assumed Knowledge: 40 units of upper level Linguistics courses

LING3070 Linguistic Research
Unit Value: 10
Provides the opportunity for students to carry out their own research project in a topic of current relevance in Linguistics, building on the foundations of knowledge provided in their first two years of Linguistics studies. LING307 provides essential groundwork for Linguistics Honours.
Contact hours: 1 hour per week
Assumed Knowledge: 30 units of upper-level Linguistics courses.

LING3080 Advanced Topics in Syntax
Unit Value: 10
Provides the opportunity for students to further their study of syntactic theory beyond the rudiments offered in LING332 Syntax. LING308 provides essential groundwork for the study of syntax at Linguistics Honours level within the framework of Chomsky's generative grammar.
Contact hours: 3 hours per week
Assumed Knowledge: LING332

LING3110 Language and Cognition
Unit Value: 10
Studies language processing and hemispheric specialisation; competing views of language acquisition process (e.g. Chomsky, Piaget, Halliday); the relationship between language development and the development of other cognitive capacities; and universals of language development.
Contact hours: 2 hours per week
Assumed Knowledge: LING111, LING112 or equivalent

LING3120 Second Language Acquisition
Unit Value: 10
Linguistic, psychological and social perspectives on the acquisition of a second language, with particular emphasis on English as a Second Language. Topics include the concept of “interlanguage”, error analysis, “transfer” from first language, and natural order of acquisition.
Contact hours: 2 hours per week
Assumed Knowledge: LING111, LING112

LING3130 Conversational Analysis
Unit Value: 10
Provides the opportunity for students to study naturally occurring conversational language. Students will be required to tape conversation at least 10 minutes duration, transcribe the tape, and analyse significant linguistic and discourse features of the conversation.
Contact hours: 2 hours per week
Assumed Knowledge: LING111 and LING112 or equivalent

LING3140 Structure of Languages other than English
Unit Value: 10
Provides the opportunity to study a variety of syntactic constructions and grammatical processes across a range of languages. Languages will be selected to allow comparisons to be made between typologically diverse construction types.
Assumed Knowledge: LING1110 and LING1120, or equivalent

LING3200 Speech and Language Disorders
Unit Value: 10
Aims to provide students with an overview of speech and language disorders, with particular emphasis on linguistic theories, description and methodology which underpin current knowledge and research in the area. The course is designed for students with backgrounds in linguistics, psychology, or education. Specific topics include: acquired and developmental language impairment, dyslexia, phonological disorders, voice disorders and stuttering.
Contact hours: 2 hours per week
Assumed Knowledge: LING111

LING3220 Language in Aboriginal Australia
Unit Value: 10
Investigates the role of language in Aboriginal sociality, both in the past and in contemporary society. It will also provide basic understanding of the structural features and distribution of Australian languages.
Assumed Knowledge: LING1110 or SSOA110 or equivalent

LING3240 Advanced Topics in Semantics and Pragmatics
Unit Value: 10
Builds on the foundations of semantics and pragmatics provided in LING331 Semantics. It will focus on selected issues in lexical semantics, logic and language, presupposition and implicature, and the relation between semantics and pragmatics.
Contact hours: 2 hours per week
Assumed Knowledge: LING331 Semantics

LING3280 Language in Education
Unit Value: 10
Explores the role of language in the education setting, focussing on areas of knowledge about language structure and language use which are of direct relevance to the classroom teacher. It will include discussion of the following topics: the nature of spoken language and its inherent difference from written text; the use of “grammar” in the classroom, both as a basis for discussing authors’ techniques and as a means of analysing children’s language output; the concept of “literacy”; the implications of different theories of learning on the teaching of reading, writing and spelling; social factors influencing language in the classroom, including teacher-pupil interactions and variation in children’s language.
Contact hours: TBA
Assumed Knowledge: LING111

LING3310 Semantics
Unit Value: 10
Explores the study of how language encodes meanings, with particular focus on lexical and sentence level semantics, and the linguistic encoding of time and space relationships. Some attention will also be given to aspects of pragmatics, particularly presupposition and implicature.
Contact hours: 2 hours per week
Assumed Knowledge: LING112 or equivalent
LING3320  Syntax  
**Unit Value:** 10

An introduction to syntactic theory and its role in explaining properties of language and the linguistic competence of the speaker/hearer. Particular attention is given to the formal properties and organization of Chomsky's Government-Binding Theory, and its application to English and selected additional languages.

**Contact hours:** 3 hours per week  
**Assumed Knowledge:** LING 111 or equivalent knowledge of elementary grammatical terminology.

LING3330  Phonology and Morphology  
**Unit Value:** 10

Provides an introduction to phonological and morphological theory within the framework of modern linguistics, focusing on the analysis and description of sound systems and word structures in English and selected additional languages.

**Contact hours:** 3 hours per week  
**Assumed Knowledge:** LING112 or equivalent.

LING3340  Phonetics  
**Unit Value:** 10

Deals with the analysis and description of speech sounds, with particular emphasis on articulatory phonetics as well as introducing the physics of speech and the instruments used to analyse speech.

**Contact hours:** 3 hours per week  
**Assumed Knowledge:** LING 112 or equivalent introduction to Phonetics.

LING3350  Structure of English  
**Unit Value:** 10

Provides the grammatical knowledge necessary for a descriptive analysis of the structure of contemporary English, from the level of word class through phrase structure analysis to the description of complex sentence patterns. On completion of the subject students should be able to provide a grammatical analysis of samples of English text and identify sources of error in child language, learner English and disordered language.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** LING111 or equivalent knowledge of elementary grammatical terminology.

LING4050  Linguistics Honours I  
**Unit Value:** 20

Provides the opportunity for students to pursue at Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in coursework and in choice of thesis topic. This course is studied in conjunction with LING406, LING407 and LING408 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student’s overall performance in the four courses.

**Contact hours:** TBA  
**Assumed Knowledge:** Entry to Linguistics Honours is on the basis of successful completion of a bachelor's degree program which includes a major sequence in the discipline of Linguistics.

LING4060  Linguistics Honours II  
**Unit Value:** 20

Provides the opportunity for students to pursue at Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in coursework and in choice of thesis topic. This course is studied in conjunction with LING405, LING407 and LING408 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student’s overall performance in the four courses.

**Contact hours:** TBA  
**Assumed Knowledge:** Entry to Linguistics Honours is on the basis of successful completion of a bachelor's degree program which includes a major sequence in the discipline of Linguistics.

LING4070  Linguistics Honours III  
**Unit Value:** 20

Provides the opportunity for students to pursue at Honours level the advanced study of recent developments in Linguistics. Together with advanced study of linguistic theory, students will be given the opportunity for in-depth study of areas of current interest, both in coursework and in choice of thesis topic. This course is studied in conjunction with LING405, LING406 and LING408 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student’s overall performance in the four courses.

**Contact hours:** TBA  
**Assumed Knowledge:** Entry to Linguistics Honours is on the basis of successful completion of a bachelor's degree program which includes a major sequence in the discipline of Linguistics.
MAR12300 Marine Biology
Unit Value: 10
Introduces the world’s oceans, which offer a wide range of environmental conditions to support marine life. Specific topics studied include the ocean environment, marine habitat types, classification and description of marine organisms, ecology of marine life and human impact on the marine environment.
Assumed Knowledge: BIOL1010: Plant and Animal Biology
BIOL1020: Cell Biology, Genetics and Evolution

MAR12320 Marine Ecology
Unit Value: 10
Focuses on specific marine ecological concepts, recognising the importance, complexity and fragile aspects of the marine environment. Topics include the effects of oceanographic factors on marine organisms, marine sediment ecology, marine habitats, nutrient cycles and human impacts.
Contact hours: 6 hours per week.
Assumed Knowledge: MAR230: Marine Biology
BIOL207C: Ecology

MAR13300 Marine and Coastal Floral Ecology
Unit Value: 10
Presents information on the flora associated with marine and coastal environments. Topics covered include both a large and small scale focus, thus incorporating the marine and coastal flora of the temperate regions of Eastern Australia, which includes the Central Coast.
Contact: 6 hours per week
Assumed Knowledge: BIOL101: Animal and Plant Biology
BIOL102: Cell Biology, Genetics and Evolution
MAR230: Marine Biology (Acceptable if studied concurrently in same Semester)

MAR13310 Estuarine Ecology
Unit Value: 10
Estuaries are an important and heavily utilised resource of the coastal marine environment and as such they are coming under increasingly pressure from a range of human disturbances and impacts. An estuary can be defined as a semi-enclosed coastal body of water that has some connection to the sea. Generally, estuaries are sheltered from major open coastal disturbances such as ocean currents and wave action, however within an estuary, a distinct series of natural processes occurs. These processes are generally complex and involve interactions between the physical, chemical and biological components of the environment.
This subject will take the general principles examined in BIOL207C Ecology and MAR232 Marine Ecology 1 and apply them to coastal estuaries. The student will gain an understanding of the key processes operating within the estuarine system which will be largely focused on practical examples from the local area.
Contact hours: 6 hours per week
Assumed Knowledge: BIOL207C Ecology
MAR232 Marine Ecology 1

MAR13320 Ecological Methodology
Unit Value: 10
Teaches experimental design and statistical methodology that is essential for Marine Ecological studies. Leading on from the 2nd year Biometric, Applied Biometric and Marine Ecological subjects, this subject takes the student through the current best practice techniques in Experimental Marine Ecology. Topics covered such as designs and implementation of experiments and statistical analysis of data from marine ecological experimentation, will allow the student to apply the necessary skills in actual Marine Ecological settings.
Contact hours: 6 hours per week
Assumed Knowledge: STEC202: Introduction to Biometrics
STEC203: Applied Biometrics
BIOL207: Ecology

MAR3330 Marine Fish & Fisheries
Unit Value: 10
Introduces students to a range of marine fishes, their biology and ecology, and importance to local fisheries. Students will gain knowledge of the morphological features and physiological adaptations of the major fish groups, their behaviour, early life history, population dynamics, habitat utilisation, and trophic relationships. The course will introduce students to techniques used in fisheries science and will examine man’s impact on, and management of, Australian marine fish populations. Students will also acquire an understanding of the present and future needs of, and prerequisites for, fish aquaculture.
Assumed Knowledge: BIOL2070Ecology
MAR2300 Marine Biology
STEC2020 Biometrics
STEC2030 Applied Biometrics

MAR3400 Marine Science Project
Unit Value: 10
Provides third year students with direct experience in conducting independent marine research. Research projects will involve aspects of study design, sample and/or data collection and statistical analysis, interpretation and completion of a written final report. In addition to the final report, this subject will require two seminar presentations (research proposal and final results), two brief progress reports, and a critique of a selected research paper.
Contact hours: By arrangement.
Assumed Knowledge: BIOL207 Ecology
MAR230 Marine Biology
MAR232 Marine Ecology
STEC202 Biometrics
STEC203 Applied Biometrics
STEC332 Ecological Methodology

MARI4110 Marine Science Honours 411
Unit Value: 20
The subject provides an advanced and substantive education in Marine Science. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay.
The subject develops an understanding of advanced theory underpinning Marine Science.
Assumed Knowledge: BSc or equivalent

MARI4120 Marine Science Honours 412
Unit Value: 20
The subject provides an advanced and substantive education in Marine Science. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay.
The subject develops an understanding of advanced theory underpinning Marine Science.
Assumed Knowledge: BSc or equivalent

MARI4130 Marine Science Honours 413
Unit Value: 20
The subject provides an advanced and substantive education in Marine Science. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay.
The subject develops an understanding of advanced theory underpinning Marine Science.
Assumed Knowledge: BSc or equivalent

MARI4140 Marine Science Honours 414
Unit Value: 20
Provides an advanced and substantive education in Marine Science. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay.
The subject develops an understanding of advanced theory underpinning Marine Science.
Assumed Knowledge: Bachelor of Science or equivalent

MATH1060 MRT Computing
Unit Value: 5
This is an introductory subject dealing with computing and statistics. It provides students with basic computing skills, including use of a number of software packages, and experience accessing electronic information sources. Students are introduced to the basic statistical concepts they are likely to encounter in later studies and in their profession. A practical approach is taken, including the use of appropriate statistical software.
Contact: 5 hours per week
Assumed Knowledge: NA
Assumed Knowledge:

- Some understanding of basic arithmetic, algebra and geometry.
- HSC 2Unit Mathematics or a score of at least 65/100 in HSC 3Unit Mathematics.
- An understanding of basic arithmetic and algebra to inform your choice of subject.
- An introductory course in discrete mathematics, covering topics such as logic, probability and the use of networks.

Unit Value: 10

Contact hours: 6 hours per week

MATH1100 Preliminary Mathematics

Assumed Knowledge: Some understanding of basic arithmetic, algebra and geometry.

Unit Value: 10

Students who complete this subject are eligible to enrol in MATH111.

Covers elementary algebra, trigonometry and coordinate geometry, and an introduction to calculus.

Contact hours: 6 hours per week

MATH1110 Mathematics 111

Assumed Knowledge: HSC Mathematics (Bands 5 or 6) or HSC Extension 1 (Bands 1.2 or 3) or prior to 2001, a score of at least 65/100 in HSC 2Unit Mathematics, or equivalent.

Unit Value: 10

This course cannot be counted for credit together with MATH1210 or MATH1710.

Covers the parts of calculus and algebra which have proved fundamental to all of mathematics and its applications. It is the first of a pair of subjects, MATH1110 and MATH1120, designed to cover a range of mathematical topics of importance to students in the Sciences, Engineering or Commerce.

Assumed Knowledge: HSC Mathematics (Bands 5 or 6) or HSC Extension 1 (Bands 1.2 or 3) or prior to 2001, a score of at least 65/100 in HSC 2Unit Mathematics, or equivalent.

Students who obtained less than 65/100 in 2Unit mathematics are advised to do MATH110 first.

MATH1120 Mathematics 112

Assumed Knowledge: MATH1110

Unit Value: 10

Describes the fundamental ideas of calculus of functions of one and two variables, differential equations and linear algebra. It continues from MATH1110 to complete a first year of Mathematics suitable for Science and Engineering students, and others for whom Mathematics is a tool.

Contact hours: 4 lecture hours and 2 tutorial hours per week.

MATH1210 Advanced Mathematics 121

Assumed Knowledge: MATH1110

Unit Value: 10

All students whose degree requires first-year mathematics may take MATH121 in preference to MATH111. There is substantial overlap between MATH111 and MATH121; students’ performance on this common material is compared and used to scale the marks to ensure that comparable students achieve comparable grades.

Reinforces the main ideas of calculus and algebra which have proved so fundamental in applications, and gives students a firm grounding in these topics.

Contact hours: 4 lecture hours and 2 tutorial hours per week.

MATH1220 Advanced Mathematics 122

Assumed Knowledge: MATH121

Unit Value: 10

This subject is a sequel to MATH121 and is likewise intended for prospective mathematics majors and those who have a strong background in mathematics. There is substantial overlap with MATH121; students’ performance on this common material is compared and used to scale the marks to ensure that comparable students achieve comparable grades.

Continues the study of calculus and linear algebra and their applications inside and outside mathematics. Students will also learn the basics of analysis through a study of infinite series and questions of convergence.

Contact hours: 4 lecture hours and 2 tutorial hours per week.

MATH1410 Mathematics for Psychology

Tailored for students in the Bachelor of Psychology program, this course introduces the mathematics and statistics necessary for further quantitative study in Psychology.

The course covers elementary algebra, equation solving, graphical analysis, probability and descriptive statistics.

Assumed Knowledge: An understanding of basic arithmetic and algebra to School Certificate level.

Unit Value: 10

MATH1510 Discrete Mathematics

Introduces first year students to the basic concepts of discrete mathematics, covering topics such as logic, probability and the use of networks. It provides important background for students pursuing a BMath degree. In addition, it covers much of the mathematics essential for students majoring in Computer Science or Software Engineering, and is a compulsory course in those degree programs.

Assumed Knowledge: HSC Mathematics (Bands 5 or 6) or HSC Extension 1 (Bands 1.2 or 3) or prior to 2001, 2 Unit Mathematics with a mark of at least 65/100.

Unit Value: 10

MATH1610 Mathematical Techniques for Information Technology

Assumed Knowledge: 2 Unit HSC Mathematics

Unit Value: 10

Provides a foundation for the mathematical concepts most widely applied in information technology. It emphasizes both the skills and techniques useful in the quantitative and logical aspects of the management of information.

Contact hours: 4 hours of lectures and 2 hours of tutorials per week.

MATH1710 Mathematics for the Life Sciences 1

Assumed Knowledge: MATH110, MATH120 or MATH170.

Unit Value: 10

MATH1710 is an introductory Mathematics course covering topics relevant for a student undertaking a degree in the biological, environmental or health sciences.

The course is a single semester course that can be taken on its own or paired with MATH1720. The major mode of delivery is through lectures, with supporting tutorials and computer laboratory classes. Topics covered include functions, differential calculus, integral calculus and difference equations. The mathematical content is motivated by and applied to the Life Sciences, and the mathematical techniques used in solving the problems include traditional analytical techniques and the use of computer algebra packages.

Assumed Knowledge: A NSW HSC 2U Maths mark of approximately 65 should provide sufficient background for commencing MATH1710. MATH1710 can be considered assumed knowledge for MATH1720 and MATH1120.

MATH1710 should not be counted for credit with MATH1110 or MATH1210.

MATH1720 Mathematics for the Life Sciences 2

Assumed Knowledge: MATH1710

Unit Value: 10

MATH1720 builds on the foundations laid in MATH1710, covering further mathematics that is applicable to the biological, environmental and health sciences.

The major mode of delivery is through lectures, with supporting tutorials and computer laboratory classes. The topics include integral calculus (extending that of MATH1710) differential calculus of two or more variables, matrix methods, and differences and differential equations as applied to models of biological systems. The treatment of the chosen topics is motivated by applications from the Life Sciences and involves computer techniques where appropriate.

Assumed Knowledge: MATH1110, MATH1210 or MATH1710 constitutes assumed knowledge for MATH1720, with MATH1710 being recommended. MATH1720 can not be counted for credit with MATH1120 or MATH1220.

MATH1900 Elementary Mathematics

Assumed Knowledge: Although some form of mathematics taken to Year 12 is desirable, all that is required is some understanding of basic arithmetic, algebra and geometry.

MATH2010 MULTIVARIABLE CALCULUS

Unit Value: 5

Multivariable calculus is an essential part of the mathematical background required for engineering and the physical sciences. This subject is compulsory for BMath students and for BEng degrees.

Involves a study of the differential and integral calculus of functions of two or more variables. In particular, it covers introductory material on the differential calculus of scalar and vector fields, and the integral calculus of scalar and vector functions.

Contact hours: 2 hours per week.

MATH2020 Partial Differential Equations I

Assumed Knowledge: MATH112 or MATH122.

Unit Value: 5

Restricted to those Chemical Engineering students for whom it is a required part of their study.

Gives a basic introduction to partial differential equations and Fourier series. Partial differential equations are used to model change in complex systems throughout the physical sciences and engineering. It discusses properties of solutions of the classical heat, wave, and Laplace equations, and their applications to engineering.

Contact hours: 2 hours per week.

MATH2030 Ordinary Differential Equations 1

Assumed Knowledge: MATH112 or MATH122.

Unit Value: 5

This subject provides mathematical knowledge and skills which are essential background for all mathematicians and engineering majors. It is a compulsory component of the BMath and most BEng degrees.

Introduces students to a range of physical processes which can be modelled by first and second order differential equations, and to the main analytical and numerical methods of obtaining solutions to such equations.

Contact hours: 2 hours per week.

Assumed Knowledge: MATH112 or MATH122.
MATH2080    LINEAR ALGEBRA
Unit Value:  5
Provides core mathematical knowledge and skills essential to mathematics majors in the BSc and BMath courses. The subject is compulsory in the BMath course. It introduces students to abstract linear algebra and its applications. The main topics are abstract vector spaces, linear transformations and their matrix representations.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH122.

MATH2190    Matrix Methods
Unit Value:  5
Gives students from Science, Engineering and Computer Science the techniques and skills in matrix methods which they need for their discipline. It is a compulsory subject for several engineering degrees.
This subject cannot be taken for credit with MATH208; students in BMath combined degree programs should take MATH210 in place of this subject, and other students with strong mathematical interests may also substitute MATH208 for MATH219.
Develops students’ knowledge in vector spaces and matrices from a practical point of view.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH112 or MATH122.

MATH2200    ANALYTIC METHODS I
Unit Value:  5
Introduces students to the basic ideas and techniques of analysis, within the context of elementary calculus. This subject is appropriate for those intending to teach mathematics, as well as those who want to pursue further study in mathematics. The material is presented through a mixture of lectures and informal problem sessions.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH112 or MATH122, or (MATH112 plus concurrent enrolment in MATH230), or (195/200 in HSC 4unit mathematics plus concurrent enrolment in MATH121).

MATH2210    Analytic Methods 2
Unit Value:  5
Designed to give students a wider knowledge of the principles and techniques of modern analysis, particularly in the context of functions of several variables. The course aims to extend the material from MATH210 and will furnish students with a sound knowledge of an area of mathematics in which the Discipline of Mathematics at Newcastle is particularly strong.
Assumed Knowledge: MATH2000

MATH2220    Algebraic Methods I
Unit Value:  5
Introduces the most basic algebraic structures, in particular those known as groups, and generally introduces students to the ideas and methods of abstract algebra. It provides assumed knowledge for a number of later subjects, and is compulsory for BMath students and those pursuing the Mathematics option in the BSc/BTeach program. One of the important aims of the subject is to develop students’ skills in proving theorems, finding examples and counter-examples, and in making, proving and disproving conjectures.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH112 or (MATH112 plus concurrent enrolment in MATH230) or (195/200 in 4 unit HSC Mathematics plus concurrent enrolment in MATH121).

MATH2230    Algebraic Methods 2
Unit Value:  5
Continues the introduction to abstract algebra begun with the study of groups in MATH222. It introduces new algebraic structures called rings and fields. Unlike groups these structures have two basic operations; ‘addition’ and ‘multiplication’. They generalize familiar examples such as: the integers, real and complex numbers, polynomials, matrices, and functions. Applications to other parts of mathematics will be included.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH222

MATH2300    ADVANCED MATHEMATICS 2
Unit Value:  5
Provides a bridge to the study of advanced mathematics by students who have not been able to fulfill all the requirements in their first year. It concentrates on topics which are vital for an understanding of second year courses in mathematics.
MATH230 cannot be taken for credit with MATH122.
Contact hours: 2 hours per week.
Assumed Knowledge: MATH112.

MATH2310    Calculus of Science and Engineering
Unit Value:  10
Provides the essential mathematical techniques of Physical Science and Engineering. These are the methods of Multivariable Calculus and Differential Equations. Multivariable Calculus involves a study of the differential and integral calculus of functions of two or more variables. In particular it covers introductory material on the differential calculus of scalar and vector fields, and the integral calculus of scalar and vector functions. Differential Equations arise from mathematical models of physical processes. Also includes the study of the main analytical and numerical methods for obtaining solutions to first and second order differential equations.
MATH2310 is compulsory for BMath and BEng students and is recommended for students in Science.
Not to be counted for credit with MATH201 or MATH203
Assumed Knowledge: MATH1110 and MATH1120

MATH2320    Linear Algebra
Unit Value:  10
Provides an introduction to the study of linear algebra. This fundamental algebraic structure is necessary for the study of Advanced Pure Mathematics and many applications in the physical sciences and engineering. The subject concentrates on topics vital for an understanding of 300 level courses in mathematics, and is compulsory for students taking the BMath degree. The material is presented through a mixture of lectures and formal problem sessions.
Not to be counted for credit with MATH208 or MATH222.
Assumed Knowledge: MATH1220 or equivalent.

MATH2330    Analysis
Unit Value:  10
Designed to introduce students to the basic ideas and techniques of analysis, within the context of elementary calculus. This course is therefore appropriate for those intending to teach mathematics, as well as those who want to pursue further study in mathematics. The material is presented through a mixture of lectures and formal problem sessions.
MATH2330 is compulsory for BMath students.
Not to be counted for credit with MATH202 or MATH210.
Assumed Knowledge: MATH1220 or MATH230.
Not to be counted for credit with MATH1220 or MATH230.
Assumed Knowledge: MATH1120 or MATH1230 plus concurrent enrolment in MATH2340, or 195/200 in HSC Extension2 Mathematics plus concurrent enrolment in MATH1210.

MATH2340    Algebra and Geometry
Unit Value:  10
Supplements MATH1110/1120 to provide assumed knowledge equivalent to MATH1210/1220 for students proposing to take advanced mathematics.
MATH2340 concentrates on topics which are vital for an understanding of the second and third year of programs involving a mathematics major.
Not to be counted for credit with MATH1220 or MATH230.
Assumed Knowledge: MATH1120

MATH2420    Engineering Mathematics II
Unit Value:  10
Introduces key areas of mathematics directly relevant to Electrical, Computer or Telecommunications Engineering. Provides a sound grounding in the differentiation and integration of functions of complex variables and covers orthogonality of vectors, eigentheory, spectral decomposition of matrices, and essential concepts associated with both discrete and continuous probability functions.
Contact hours: 4 hours per week.
Assumed Knowledge: MATH1120 or MATH1220, and MATH2310 or MATH201.
MATH2420 should not be counted for credit with MATH2190 or MATH2060.

MATH2470    Partial Differential Equations in Engineering
Unit Value:  10
Introduces essential mathematical methods with direct relevance to the study of Chemical Engineering, including both analytic and numerical techniques for solving boundary value problems for partial differential equations. Provides an understanding of the Fourier, shooting, and difference methods for solving problems related to diffusion of heat, mass and momentum and introduces applications of the Laplace transform and Computational Fluid Dynamics.
Contact hours: 3 lecture hours and 2 computer laboratory hours per week.
Assumed Knowledge: MATH 112 or MATH 122.

MATH2600    MATHEMATICAL SOFTWARE
Unit Value:  10
Provides students with a broad range of skills involving mathematical software and mathematical language processing by introducing students to a computer algebra system and to a mathematical typesetting system. It will enable students with varying needs for mathematics to become familiar with the language of mathematics as it is used in a wide range of disciplines.
Contact hours: 2 lecture hours and 2 computer laboratory hours per week.
Assumed Knowledge: MATH110 or MATH111 or MATH121 or MATH151.
MATH2700 Ecological Modelling
Unit Value: 5
Studies the use of mathematics to model situations in the biological sciences, industry and the environmental sciences.
Concepts basic to modelling are introduced, with special emphasis being placed on mathematics as a tool to unify related ideas. Modelling is applied to real-life problems in population biology, with emphasis on exploitable populations, pollution and drainage problems in water systems, and moving boundary problems in industrial processes.
Contact hours: 2 hours per week
Assumed Knowledge: MATH112 or MATH122.

MATH2710 Modelling Dynamical Processes
Unit Value: 10
Investigates the mathematical models of processes that change in time. These processes may change continuously, such as the position of a material object, or change discretely, such as a bank balance that is adjusted at the end of each working day. This subject will use examples to introduce students to abstract mathematics. Some typical areas covered include: population growth, harvesting, pollution, and industrial processes.
Contact hours: 2 hours per week
Assumed Knowledge: MATH1110 and MATH1120

MATH2720 Dynamical Systems and Numerical Techniques
Unit Value: 5
Introduces discrete dynamical systems in which the terms in the sequence are governed by what amounts to a recurrence relation and analyses the long-term behaviour of such systems, including bifurcation theory and chaotic behaviour. The subject will use examples to introduce students to abstract mathematics. Some typical areas covered include: population growth, harvesting, pollution, and industrial processes.
Contact hours: 2 hours per week
Assumed Knowledge: MATH112 or MATH122

MATH2730 Operations Management
Unit Value: 10
Introduces the student to the ideas and techniques of Operations Research, which concerns the use of scientific, in particular mathematical, methods to investigate aspects of industry, business, and other similar activities, as a basis for making informed management decisions. These methods are routinely used by businesses, industries, financial institutions and government agencies. Their successful application has often saved an organization millions of dollars. As well as surveying general techniques, the subject will focus on a number of illustrative case studies. Throughout, use will be made of relevant widely used software packages.
Contact hours: 4 hours per week
Assumed Knowledge: MATH111 or MATH121 or MATH151 or ECON113 or STAT105 or STAT101 or STAT107.

MATH2910 A Practical Approach to Elementary Mathematics
Unit Value: 10
Provides students in the Primary/Early Childhood Teacher Education Program with an extension of certain areas of mathematics studied in the subject MATH190. The subject is primarily concerned with spatial, numerical and algebraic concepts. This will broaden the mathematical backgrounds of these students in areas that will be most useful in their teaching of mathematics.
Contact hours: 4 hours per week.
Assumed Knowledge: MATH111 or MATH121 or MATH151 or ECON113 or STAT105 or STAT101 or STAT107.

MATH2920 Perspectives on Elementary Mathematics
Unit Value: 10
Provides students in Primary/Early Childhood Education courses with an insight into the nature of problem-solving in mathematics. In particular, within the scope of the mathematics they have studied, the students will become aware of the process of using mathematics in open-ended problems, the way in which new mathematics can be developed and mathematics as a human endeavour.
Contact hours: 4 hours per week
Assumed Knowledge: MATH1190

MATH3010 LOGIC AND SET THEORY
Unit Value: 10
Introduces the logical foundations of mathematics. Notions of infinity are precisely formulated and the role of these notions in mathematical arguments is examined.
Assumed Knowledge: MATH1220.

MATH3180 Topology
Unit Value: 10
Introduces students to abstract analytic structures and their applications. Familiar concepts from real analysis such as open and closed intervals, limits, and continuity are extended to more general settings. This greatly expands the scope of their applicability. The material lies at the heart of many developments in modern pure mathematics.
Contact hours: 3 hours per week.
Assumed Knowledge: MATH230 or MATH220.

MATH3200 An Introduction to Hilbert Spaces
Unit Value: 10
Introduces modern abstract analysis, focusing on those areas which underlie the research effort of the Mathematics Functional Analysis group, and which are also relevant to theoretical physics and control theory. Hilbert spaces are the most user-friendly of the various vector spaces occurring in analysis, because their geometry is most like that of Euclidean space. They also provide an excellent framework for the study of quantum mechanics and such classical subjects as Fourier series. Consequently they arise frequently in applications.
Contact hours: 3 hours per week.
Assumed Knowledge: MATH230 and MATH2330 (or MATH2200 and MATH2280).

MATH3210 Seminar
Unit Value: 10
This course is intended for mathematics majors in the B.Sc. and B.Math. courses. The course will: introduce students to recent developments in various branches of mathematics; open to students a perspective on the whole of mathematics, showing them where what they already know fits in the overall course; show students where gaps in their knowledge lie by indicating branches of mathematics they have not yet met in lectures; develop students' ability to assimilate mathematics through self-directed study rather than formal instruction; develop students' skills at presenting mathematics. The broad picture of mathematics and the ability to assimilate and present unfamiliar mathematical topics which this course will provide will be of value to all graduates when using their mathematical skills. For those who wish to continue studying mathematics, this course will assist in making an informed choice of directions to pursue.
Assumed Knowledge: MATH2010, MATH2080, MATH2200, MATH2220

MATH3230 Linear Operators
Unit Value: 10
Intended for mathematics majors and for scientists for whom the material has important applications in electronics and quantum physics. Aims to enable the students to master the fundamental ideas of linear operators on infinite dimensional spaces, particularly Hilbert spaces. It will provide the background needed for further work on Banach space operators, operator algebras and infinite dimensional group representations. These areas encompass many of the research interests of the Functional Analysis group in the School of Mathematical and Physical Sciences.
Contact hours: 3 hours per week.
Assumed Knowledge: MATH320.

MATH3400 Research Topics in Mathematics
Unit Value: 10
Reviews a research topic in modern mathematics via directed reading, participation in honours lecture topics or assigned project work, as appropriate. Work will be supervised by a senior member of the academic staff. Participation in this subject requires the agreement of the Head of the School.
Contact hours: by arrangement
Assumed Knowledge: A good strong background in appropriate MATH300 subjects.

MATH3510 Combinatorics
Unit Value: 10
Introduces students to Combinatorics. The subject matter arose as a blend of the mathematical techniques applied in Computer Science, Information Technology and Statistics. It is discrete mathematics and is applicable to the above areas in contrast to the continuous mathematics of calculus and the physical sciences. Much of the subject matter is a continuation of the discrete mathematics topics studied in MATH1510 such as graphs, trees, and enumeration. However use is made of some basic techniques from abstract algebra and calculus, and additional topics such as experimental design and finite geometries are introduced. Where possible, applications are discussed.
Offered in Semester 2, even years.
Assumed Knowledge: MATH1510

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MATH3700 Differential Equations
Unit Value: 10
Introduces students to the modern theory and methods of ordinary and partial differential equations. Ordinary and partial differential equations form an essential part of the mathematical background required for engineering and the physical sciences. A large number of physical situations can be modelled using differential equations, making the subject one of the most widely applicable areas of mathematics.
Assumed Knowledge: MATH2310 and MATH2320 or (MATH2010, MATH2030 and either MATH2080 or MATH2190).
Not to be counted for credit with MATH304.

MATH3720 Topics in Applicable Mathematics
Unit Value: 10
Mathematical models are widely used throughout the natural and social sciences. Covers all aspects of the modelling procedure: development analysis, interpretation and refinement through the consideration of case studies drawn from areas such as finance, traffic engineering, biological systems and industrial processes. During these studies, students will be introduced to relevant, new mathematical skills and techniques.
Assumed Knowledge: MATH2010, MATH2030.
Not to be counted for credit with MATH319.

MATH3750 FINANCIAL MATHEMATICS
Unit Value: 10
Involves a study of the mathematics used in various types of financial calculations. In particular it covers material on difference equations and stochastic equations of various types which underpin much of the financial modelling used in commerce and world financial markets.
Contact hours: 3 hours per week.
Assumed Knowledge: MATH112 or MATH121.

MATH3780 Optimization and Computational Mathematics
Unit Value: 10
Mathematical optimisation is concerned with the problem of finding the optimum value of a function of several variables, subject to constraints on the values that the variables may take. The subject provides an introduction to both the theory and its application to practical problems. The theoretical side of the subject looks not only at solving optimisation problems but also at issues such as conditions guaranteeing that the problem has a solution or a unique solution. The applications side concerns solving "real life" problems, usually involving a very large number of variables and hence requiring large numerical computations on a computer.
Contact hours: 3 hours per week.
Assumed Knowledge: MATH201, MATH203, MATH208 or MATH219.

MATH4110 Mathematics Honours 411
Unit Value: 20
Introduces students to the investigative and research aspects of mathematical knowledge. It prepares students for further postgraduate study in mathematics (PhD or Masters) either in Australia or overseas. It also provides valuable additional training for those students wishing to enter the workforce. Employers particularly appreciate the communication, report writing, problem-solving and research skills developed in the Honours program. Honours is a coordinated programme spanning two semesters of full-time study or four semesters of part-time study. The Honours program requires students to study 8 advanced topics together with a project done under the supervision of an academic staff member. For administrative purposes students enrol in each of the 20 credit point semester length subjects: MATH411, MATH412, MATH421, MATH422.
Contact hours: By arrangement.
Assumed Knowledge: Students intending to pursue Honours in Mathematics should consult with Head of School or the Mathematics Honours Coordinator prior to their commencement. A credit level average in a mathematics major at the 300 level is required for entry into Honours.

MATH4210 Mathematics Honours 421
Unit Value: 20
Introduces students to the investigative and research aspects of mathematical knowledge. It prepares students for further postgraduate study in mathematics (PhD or Masters) either in Australia or overseas. It also provides valuable additional training for those students wishing to enter the workforce. Employers particularly appreciate the communication, report writing, problem-solving and research skills developed in the Honours program. Honours is a coordinated programme spanning two semesters of full-time study or four semesters of part-time study. The Honours program requires students to study 8 advanced topics together with a project done under the supervision of an academic staff member. For administrative purposes students enrol in each of the 20 credit point semester length subjects: MATH411, MATH412, MATH421, MATH422.
Contact hours: By arrangement.
Assumed Knowledge: Students intending to pursue Honours in Mathematics should consult with Head of School or the Mathematics Honours Coordinator prior to their commencement. A credit level average in a mathematics major at the 300 level is required for entry into Honours.

MATH4220 Mathematics Honours 422
Unit Value: 20
Introduces students to the investigative and research aspects of mathematical knowledge. It prepares students for further postgraduate study in mathematics (PhD or Masters) either in Australia or overseas. It also provides valuable additional training for those students wishing to enter the workforce. Employers particularly appreciate the communication, report writing, problem-solving and research skills developed in the Honours program. Honours is a coordinated programme spanning two semesters of full-time study or four semesters of part-time study. The Honours program requires students to study 8 advanced topics together with a project done under the supervision of an academic staff member. For administrative purposes students enrol in each of the 20 credit point semester length subjects: MATH411, MATH412, MATH421, MATH422.
Contact hours: By arrangement.
Assumed Knowledge: Students intending to pursue Honours in Mathematics should consult with Head of School or the Mathematics Honours Coordinator prior to their commencement. A credit level average in a mathematics major at the 300 level is required for entry into Honours.

MECH1040 Introduction to Engineering
Unit Value: 10
Designed to introduce students to the scope and practice of professional engineering at the earliest opportunity in their degree studies. Account is given to the social context of engineering. It also provides a rationale and foundation for future subjects in engineering and engineering management through group projects involving problem based learning.
(a) Develop an understanding of professional engineering in a societal framework.
(b) Develop a knowledge of the extent and interaction between analysis, synthesis and management in professional engineering.
(c) Gain experience in the processes of professional engineering practice.
Assumed Knowledge: Nil

MECH1080 Engineering Computations 1
Unit Value: 10
Introduces students to the use of computers in Engineering. Typically less than half the class has had previous substantial experience with computers and a substantial minority have none. The subject assumes no previous knowledge and has the objective of achieving competency in the programming language FORTRAN as well as improving problem-solving skills. In particular, these skills are necessary for the subject Engineering Computations II.
Contact hours: 6 hours per week.
Assumed Knowledge: Nil

MECH1220 Computer Aided Engineering
Unit Value: 10
Develops basic spatial skill through the use of a solid modelling system. Skills at interpreting and visualizing 3D objects in 2D format are developed. Creation and assembly of solid model representation of machine components. Creation and assembly of solid model representation of machine components. Creating 2D engineering drawings from solid models. Physical interpretation of dimension tolerancing, geometric dimensioning and tolerancing and surface finishes in relation to mechanical systems. Development of advanced technical sketching skills to aid communication in engineering design. Introduction to 2D engineering drawing using AutoCAD.
Contact hours: 6 hours per week.
Assumed Knowledge: Nil

MECH1350 Introductory Mechanics
Unit Value: 10
Introduces some basic principles of engineering mechanics in as simple a manner as possible, and without recourse to advanced mathematics. Emphasis is placed upon the gaining of real understanding of the laws and principles of mechanics. Both aspects of mechanics are covered: dynamics and statics.
Contact hours: 6 hours per week.
Assumed Knowledge: Nil
MECH2110  Mechanical Engineering Design 1
Unit Value: 10
Contact hours: 6 hours per week.
Assumed Knowledge: CIVIL111 Mechanics and Structures and MECH111 Engineering Drawing

MECH2250  Materials Science and Engineering 1
Unit Value: 10
Provides an integrated foundation for understanding the engineering properties of materials and how these properties result from basic chemical bonding and structure.
Contact hours: 6 hours per week.
Assumed Knowledge: HSC level knowledge of Physics or Chemistry is assumed

MECH2350  Dynamics 2
Unit Value: 10
 Reinforces the concepts and methods of analysis learned in Engineering Mechanics 1. Introduces students to two-dimensional dynamics of rigid bodies and provides an introductory treatment of dynamic systems suitable for engineering students. Topics include: two dimensional dynamics of rigid bodies, kinematics and kinetics; dynamic systems (mechanical systems, electrical systems), analytical solutions of linear models, Laplace transforms; and transfer function analysis.
Contact hours: 6 hours per week
Assumed Knowledge: MATH112 Mathematics 112 or MATH102 Mathematics 102, CIVIL111 Mechanics and Structures and MECH111 Engineering Drawing

MECH2420  Engineering Mechanics
Unit Value: 10
Force and stress analysis, axial stress shear stress, bending stress. Transformation of stress and strain. Analysis and design of simple machine components such as shafts, springs, bolted connections. Impact loads, reliability and fatigue calculations.
Contact: 5 hours per week
Assumed Knowledge: MATH112 Mathematics 112 or MATH102 Mathematics 102

MECH2450  Engineering Computations 2
Unit Value: 10
Develops the student's ability to write computer programs to solve numerical problems of engineering interest. This is done within the context of rapidly increasing application of computers to all branches of engineering. Also develops the student's ability to conceptualise problems and formulate tractable solutions and increases the student's familiarity with computer systems.
Contact hours: 5 hours per week
Assumed Knowledge: MECH108

MECH2700  Thermofluids
Unit Value: 10
This course introduces students to fluids and thermodynamics and covers topics such as properties of fluids; viscosity; pressure measurement; transport equations; Bernoulli Equation and applications; work and heat; properties of substances; First Law of Thermodynamics and applications; introduction to Second Law of Thermodynamics.
Contact hours: 3-4 hours lecture; 1-2 hours tutorial.
Assumed Knowledge: Basic Physics and Mathematics

MECH3110  Mechanical Engineering Design 2
Unit Value: 10
Topics include: welded and bolted connections; design of friction drives, clutches and brakes; hydraulic drives, torque converters and epicyclic gear trains; lubrication and journal bearings; linkage kinematics and dynamic analysis; gear design and selection according to Australian Standards.
Assumed Knowledge: MECH2110 Mechanical Engineering Design 1, MECH2420 Engineering Mechanics

MECH3130  Mechanics of Bulk Solids and Particulates
Unit Value: 10
Basic properties of bulk solids and particulates and basic concepts used to design bulk solids handling and processing equipment are presented based on the problems from industry. Also computer simulation technologies are introduced for understanding bulk solids and particulates in handling and processing program.
Contact hours: 6 Hours per week.

MECH3140  Mechatronics Design
Unit Value: 10
The course consists of a series of lectures on mechanisms and mechatronics design. Students will work in groups to solve a mechatronics design problem and present the solution in a seminar at the end of the semester.
Contact hours: 6 hours per week.
Assumed Knowledge: MECH2110 Mechanical Engineering Design 1, MECH2420 Engineering Mechanics ELEC2120 Sensors and Actuators

MECH3200  Finite Element Analysis
Unit Value: 10
Introduces students to the mathematical foundation of the finite element method and to its use in engineering design through a commercially available FEA software package. Finite element theory covered includes derivation of element stiffness matrices, interpolation functions, the use and limitation of different types of elements and interpretation of finite element solutions. Skills developed using the software include selection and use of elements, modeling strategies, appropriate use of boundary conditions and methodology for checking solutions.
Contact hours: 5 hours per week.
Assumed Knowledge: MECH111 Engineering Drawing; MECH122 Computer Aided Engineering; MECH242 Engineering Mechanics

MECH3400  Materials Science and Engineering 2
Unit Value: 10
Extends the competency of students in understanding engineering materials and their behaviour. The subject is focused more on the mechanical behaviour of materials than is Materials 1, although the importance of other properties is never ignored. There are four major elements to the subject:
1. the required theoretical understanding of the properties of engineering materials, how they are manipulated, and how they may degrade in service is presented in a series of lectures;
2. this material is reinforced by tutorials;
3. techniques for applying this knowledge to the selection of materials in engineering design are taught in a series of tutorial exercises and
4. a series of laboratory exercises and a related assignment encourage students to think across topic boundaries.
Contact hours: 6 hours per week.
Assumed Knowledge: MECH225 Materials Science and Engineering 1

MECH3440  Mechanics of Solids
Unit Value: 10
Introduces the theory of elasticity and to consolidate material given in previous courses in mechanics of solids and mechanics of structures. It also introduces the fundamentals of fracture mechanics and the practical determination and application of fracture parameters.
Contact hours: 6 hours per week
Assumed Knowledge: Basic of mechanics of solids: stress, strain, axial loading, torsion beindng, deflection of beams

MECH3500  Vibrations, Acoustics & Condition Monitoring
Unit Value: 10
Introduces students to analysis and control of vibrations and related topics in noise and machine condition monitoring.
Contact hours: 6 hours per week.
Assumed Knowledge: MECH235 Engineering Dynamics

MECH3700  Transport Phenomena
Unit Value: 10
If the subject is being developed separately from a course review this description will be used in the University Handbook. If the subject is part of a course review use the subject description in that document. Include the major mode of delivery.
Contact hours: 1 Academic level A - E; 6 hours per week
Part time tutoring and marking: 5 hours per week
Assumed Knowledge: The students are assumed to have completed their basis course in thermofluids and ordinary and partial differential equations.

MECH3750  Applied Engineering Thermodynamics
Unit Value: 10
Applications of I and II Laws of Thermodynamics to several power and refrigeration cycles; properties of non reacting mixtures; psychrometry and applications; combustion (total 5 cp). Several laboratory experiments to demonstrate the application of the above (5 cp).
Contact hours: Lecture & tutorials (3 hours/week) laboratory sessions(2 hours/week)
Assumed Knowledge: MECH271 Thermodynamics 1
MECH4220  Bulk Materials Handling and Transportation  
Unit Value: 10
Provides students with the opportunity to apply skills developed over the previous three years to an open-ended engineering problem of their choice. Projects are supervised by a member of the academic staff and may be experimental, theoretical, computational or practical in nature. An important goal is to help students develop project and time-management skills, and the ability to communicate through the report and seminar. 
Contact hours: 1 hour per week (plus direct contact with supervisor)  
Assumed Knowledge: There is no prerequisite for this subject

MECH4240  Advanced Materials  
Unit Value: 10
Provides in-depth training in certain technologically important areas in materials science/engineering. It is designed for those students undertaking the major in advanced materials and manufacturing in the BE (Mech Eng) and those students undertaking the BE/BSc (Materials Science) combined degree program. 
The areas covered by the subject are dictated by the interests/expertise of the staff available. It is expected that students will elect to specialise in several material types such as advanced ceramics and superalloys. 
Contact hours: 3 hours per week  
Assumed Knowledge: MECH25S (Materials Science and Engineering I) and MECH340 (Materials Science and Engineering II)

MECH4300  Aerodynamics  
Unit Value: 10
The course provides an advanced course in aerodynamics. Topics such as Flight mechanics, wing theory, subsonic, transonic and supersonic aerodynamics will be presented. 
Contact hours: 6 per week.  
Assumed Knowledge: The students are assumed to have completed their basic course in Thermofluids and Thermodynamics, Transport Phenomena and Calculus of Science and Engineering.

MECH4580  Adv Computer Aided Engineering and Manufacturing  
Unit Value: 10
Furthers students' knowledge of finite element analysis and aspects of advanced solids modelling. It will familiarise students with the theory and practice of Computer Aided Manufacture (CAM). Further, students will be familiarised with the concept of rapid prototyping and the control of a Numerically Controlled Work Centre. 
Assumed Knowledge: MECH2110 Mechanical Engineering Design 1, MECH3200 Finite Element Analysis.

MECH4730  Fluid Machines  
Unit Value: 10
This course will introduce students to a range of fluid machines including wind turbines, propellers, axial and centrifugal fans, pumps, gas and steam turbines. The basics of the subject will be provided as lecture material reinforced by tutorial and laboratory assignments. Students will then do an individual project on a topic that has been mutually agreed. 
Contact hours: Three hours of lectures and tutorials per week. In addition, students will undertake two or three experiments.  
Assumed Knowledge: MECH3700 Transport Phenomena.

MECH4740  Mechatronics Project/Seminar A  
Unit Value: 10
Provide students with the opportunity to apply skills developed over the previous three years to an open-ended engineering problem of their choice. Projects are supervised by a member of the academic staff and may be experimental, theoretical, computational or practical in nature. An important goal is to help students develop project and time-management skills, and the ability to communicate through the report and seminar. This course is a continuation of project work to be completed in MECH4740. 
Contact hours: 1 hour per week (plus direct contact with supervisor).  
Assumed Knowledge: 220 credit points completed.

MECH4750  Mechatronics Project/Seminar B  
Unit Value: 20
Provides students with the opportunity to apply skills developed over the previous three years to an open-ended engineering problem of their choice. Projects are supervised by a member of the academic staff and may be experimental, theoretical, computational or practical in nature. An important goal is to help students develop project and time-management skills, and the ability to communicate through the report and seminar. This course is a continuation of project work to be completed in MECH4740. 
Contact hours: 1 hour per week (plus direct contact with supervisor).  
Assumed Knowledge: 220 credit points completed.

MECH4830  Engineering Economic Analysis  
Unit Value: 10
Aims to teach the concepts of engineering economic analysis and its role in solving problems. It is designed to provide engineers with the tools needed for a rigorous presentation of the effect of the time value of money on engineering decision making. The course isolates those problems that are commonly faced by engineers and develops the tools to properly grasp, analyse, and solve them. The tools introduced include present worth analysis, annual cash flow, rate of return, incremental analysis, future worth analysis, and payback period. The course also covers such topics as depreciation, after tax analysis, replacement analysis, inflation, and deflation. It also includes estimation of future events and the issues related to economic analysis in management and government. 
Contact hours: 6 hours per week  
Assumed Knowledge: There is no prerequisite for this subject

MECH4840  Mechanical Engineering Project/Seminar A  
Unit Value: 10
Provides students with the opportunity to apply the skills developed over the previous three years to an open-ended engineering problem of their choice. Projects are supervised by a member of the academic staff and may be experimental, theoretical, computational or practical in nature. An important goal is to help students develop project and time-management skills, and the ability to communicate through the report and seminar. 
Contact hours: 1 hour per week (plus direct contact with supervisor)  
Assumed Knowledge: 220 credit points completed.

MECH4850  Mechanical Engineering Project/Seminar B  
Unit Value: 20
Provides students with the opportunity to apply the skills developed over the previous three years to an open-ended engineering problem of their choice. Projects are supervised by a member of the academic staff and may be experimental, theoretical, computational or practical in nature. An important goal is to help students develop project and time-management skills, and the ability to communicate through the report and seminar. 
Contact hours: 1 hour per week (plus direct contact with supervisor)  
Assumed Knowledge: 220 credit points completed.

MECH4890  COMPUTER SIMULATION AND MODELLING  
Unit Value: 10
Provides students with practical approach to the subject of simulation, and help them to develop satisfactory working simulation models. Designed to be both broad in scope and practical in its applications covering such areas as management, manufacturing, maintenance, and service. After getting familiar with basic simulation techniques students will be introduced to more advanced modelling techniques and simulation tools. 
Contact hours: 6 hours per week  
Assumed Knowledge: There is no prerequisite for this subject

MECH4950  Project/Directed Reading  
Unit Value: 5
An area of interest will be chosen from a list of topics provided by the Subject Coordinator or one of interest to the student for reading and research to enable a deeper understanding of the subject. 
Contact hours: 3 hours per week  
Assumed Knowledge: N/A

MECH4970  Project/Directed Reading  
Unit Value: 5
An area of interest will be chosen from a list of topics provided by the Subject Coordinator or one of interest to the student for reading and research to enable a deeper understanding of the subject. 
Contact hours: 3 hours per week  
Assumed Knowledge: N/A

MEDI1010A  Medicine 1 (Part A)  
Unit Value: 40
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Medicine I is divided into two semesters of teaching, the first of 16 weeks and the second of approximately 12 weeks. Week one consists of an overall introduction to the medical school, the curriculum, learning methods and learning objectives. The remainder of the year is organised into four Domains. Domain I - Professional Skills Domain II - Public Health Domain III - Identification, Prevention and Management of Illness Domain IV - Self-directed learning  
Assumed Knowledge: See selection and admission criteria.
MED1010B Medicine I (Part B)
Unit Value: 40
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Medicine I is divided into two semesters of teaching, the first of 16 weeks and the second of approximately 12 weeks. Work one consists of an overall introduction to the medical school, the curriculum, learning methods and learning objectives. The remainder of the year is organised into four Domains.
Domain I - Professional Skills
Domain II - Public Health
Domain III - Identification, Prevention and Management of Illness
Domain IV - Self-directed learning
Assumed Knowledge: See selection and admission criteria.

MED21010A Medicine II (Part A)
Unit Value: 40
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Medicine II is divided into 2 semesters.
Semester II: Domain IV - Self Directed Learning. An extended own learning task is identified in relation to Domain III. This task is carried out under academic supervision and a written report is required.
Assumed Knowledge: MED101

MED21010B Medicine II (Part B)
Unit Value: 40
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Medicine II is divided into 2 semesters.
Semester II: Domain IV - Self Directed Learning. An extended own learning task is identified in relation to Domain III. This task is carried out under academic supervision and a written report is required.
Assumed Knowledge: MED101

MED2140A Pathology for MRT (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Aims to provide a basic understanding of the mechanisms of disease (Semester 1) - the processes by which diseases occur, with application of these principles in specific systems based pathology (Semester 2). The course will build on the student’s prior knowledge of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the most is drawn from these sessions. A set of learning objectives is provided for the first semester lectures which emphasise the main points.
Assumed Knowledge: HUSB104

MED2140B Pathology for MRT (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Aims to provide a basic understanding of the mechanisms of disease (Semester 1) - the processes by which diseases occur, with application of these principles in specific systems based pathology (Semester 2). The course will build on the student’s prior knowledge of anatomy and physiology and some reading and revision may be required prior to the lectures to ensure the most is drawn from these sessions. A set of learning objectives is provided for the first semester lectures which emphasise the main points.
Assumed Knowledge: HUSB104

MED3210A Medicine III (Part A)
Unit Value: 40
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Medicine III is divided into four Blocks. Two Blocks involve further work on the body systems covered in Years 1 and 2 and a number of medical and surgical sub-specialties. Country Term is an 8 week clinical attachment at either a large country hospital or a regional hospital. Elective period occupies 8 weeks at the completion of all first assessment instruments.
Assumed Knowledge: MED201

MED3210B Medicine III (Part B)
Unit Value: 40
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Medicine III is divided into four Blocks. Two Blocks involve further work on the body systems covered in Years 1 and 2 and a number of medical and surgical sub-specialties. Country Term is an 8 week clinical attachment at either a large country hospital or a regional hospital. Elective period occupies 8 weeks at the completion of all first assessment instruments.
Assumed Knowledge: MED201

MEDI4010A Medicine IV (Part A)
Unit Value: 40
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Medicine IV is divided into three clinical attachments of twelve weeks, rotating through major clinical specialties: Medicine; Surgery; Paediatrics/Reproductive Medicine. Other clinical attachments include Psychiatry. General Practice Workshop. Interactional skills. Public Health.
Assumed Knowledge: MED321

MEDI4010B Medicine IV (Part B)
Unit Value: 40
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Medicine IV is divided into three clinical attachments of twelve weeks, rotating through major clinical specialties: Medicine; Surgery; Paediatrics/Reproductive Medicine. Other clinical attachments include Psychiatry. General Practice Workshop. Interactional skills. Public Health.
Assumed Knowledge: MED321

MEDI4110A Thesis (Part A)
Unit Value: 40
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
The purpose of this subject is to develop students’ interest and skills in the conduct of a medical research project. This is done within the framework of a one year supervised research that culminates in a written thesis.
Assumed Knowledge: Completion of at least 240 credit points in a Bachelor of Medicine degree, or completed a Bachelor of Health Science, Bachelor of Science degree or other approved program at the University of Newcastle or equivalent degrees in other institutions.

MEDI4110B Thesis (Part B)
Unit Value: 40
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
The purpose of this subject is to develop students’ interest and skills in the conduct of a medical research project. This is done within the framework of a one year supervised research that culminates in a written thesis.
Assumed Knowledge: Completion of at least 240 credit points in a Bachelor of Medicine degree, or completed a Bachelor of Health Science, Bachelor of Science degree or other approved program at the University of Newcastle or equivalent degrees in other institutions.

MEDI5210A Medicine V (Part A)
Unit Value: 40
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Medicine V comprises four clinical attachments of seven weeks, followed by an eight week elective attachment. Clinical attachments are in general medicine, paediatrics, reproductive medicine, palliative care, oncology/intensive care, general practice, psychiatry. Interactional skills. Public Health.
Assumed Knowledge: MED4010A & MEDI4010B

MEDI5210B Medicine V (Part B)
Unit Value: 40
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Medicine V comprises four clinical attachments of seven weeks, followed by an eight week elective attachment. Clinical attachments are in general medicine, paediatrics, reproductive medicine, palliative care, oncology/intensive care, general practice, psychiatry. Interactional skills. Public Health.
Assumed Knowledge: MED401

MKTG1000 Marketing Principles
Unit Value: 10
Introduces basic concepts/frameworks in marketing. Both strategic and short term marketing, planning, perspectives, are developed. Topics include the marketing environment, market segmentation, new product development and the marketing mix, as well as mix interactions, strategies, implementations and controls.
Assumed Knowledge: Nil
Guide to Undergraduate Programs - 2002

MKTG2000 Consumer Behaviour
Unit Value: 10
Is concerned with understanding consumer decision-making processes and the various factors that influence these processes. Understanding how and why consumers behave in a given way enables marketers to design and implement better strategies.

Contact hours: 3 hours per week
Assumed Knowledge: NA

MKTG2010 Marketing Research
Unit Value: 10
Examines the role of research techniques in solving business problems and identifying market opportunities. Students apply marketing concepts and theory to market research design, define techniques and methods of research used in the marketing process; develop skills in basic analysis of quantitative data, including the use of computer based statistical analytical packages, and the methods by which the data can be turned into useful information.

Assumed Knowledge: MKTG1000

MKTG2020 Advertising & Promotion Management
Unit Value: 10
Deals with the role of "promotion", particularly advertising, in marketing management from theoretical and practical perspectives. Promotion is an extremely important part of the marketing mix, as no-one will rush to buy your product if they don’t know about it! It is, therefore, vital to effectively and efficiently communicate your message about your product, service and/or idea to the marketplace. Topics include the advertising environment, the use of agencies, communication/behavioural aspects of advertising, planning, budgeting and decision-making, media selection and controls on promotional activities. But wait! There’s more! This course will encourage students to use creative thinking throughout the semester - it won’t happen overnight, but it will happen!

Assumed Knowledge: MKTG2000

MKTG2030 Product and Brand Management
Unit Value: 10
Familiarises students with issues relating to the development of new products and management of existing products/services and brands, as well as their organisational implications. Topics include, amongst others, the product development process, cross-functional teams, test marketing and simulated test markets, promotional mix considerations, brand equity, brand management, the future of branding and the prospects for interactive marketing.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG100 - Marketing Principles

MKTG2260 Business Venturing
Unit Value: 10
Examines the complex and convoluted processes of creating new business ventures. These processes involve bringing together many concepts including the business idea, relevant resources, personal commitment and entrepreneurial drive, and a marketable product or service. The result of successful business venturing is a viable enterprise, but this requires more than merely accumulating the necessary ingredients. Business enterprises have the capacity to survive and grow, to create wealth and employment, are invariably those that are soundly conceived, planned and executed, and efficiently and effectively managed. The emphasis will be on understanding the essential aspects of each topic.

Contact hours: 3 hours per week
Assumed Knowledge: NA

MKTG2410 Professional Practice In Design
Unit Value: 10
Examines the critical issues and practical problems associated with evaluating the viability, setting up and managing a professional practice in design. Business and management skills relevant to the design industry are developed using a problem based learning methodology.

Contact hours: 3 hours per week
Assumed Knowledge: NA

MKTG2530 Electronic Marketing
Unit Value: 10
Examines emerging interactive technologies and their impact on, and implications for: marketing strategy, business strategy, consumer behaviour, advertising and media planning.

Contact hours: 3 hours per week
Assumed Knowledge: Students are assumed to have successfully completed Principles of Marketing (MKTG100).

MKTG3000 Strategic Marketing Management
Unit Value: 10
Develops students' abilities to apply various principles and theories to specific problems. Competitive marketing strategies are introduced, and theories are applied to different economic environments as well as to different competitive environments. A practical approach to strategy is encouraged.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG201 - Marketing Research

MKTG3010A Project in Marketing (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Only available to students who have completed MKTG2010 and twenty units of Marketing courses.

Students complete a group based project over a full year, which requires them to apply theory to a practical business problem. At the end of the second semester the group must present the business implications of their work.

Assumed Knowledge: MKTG2010 - Market Research

MKTG3010B Project in Marketing (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Only available to students who have completed MKTG2010 and twenty units of Marketing courses.

Students complete a group based project over a full year, which requires them to apply theory to a practical business problem. At the end of the second semester the group must present the business implications of their work.

Assumed Knowledge: MKTG2010 - Market Research

MKTG3030 Business to Business Marketing
Unit Value: 10
Aims to develop an understanding of business markets, the business marketing environment and the application of marketing theory to business-to-business markets. These markets include producers of goods and services, intermediaries, government, non-profit organisations and any economic unit that purchases and uses inputs to produce or resell goods and services. Main areas covered include the Business Environment, Organisational Buyer Behaviour, Segmentation, Targeting & Positioning (STP) Analysis, the Marketing Mix, and Strategy and Planning.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG1000 - Marketing Principles

MKTG3040 Services Marketing
Unit Value: 10
Examines the differences between the marketing of goods and services, and extends the traditional strategic marketing mix to include additional elements appropriate to the distinct features of services. Other topics include internal marketing, managing evidence, relationship marketing, quality service delivery and measurement and service customisation.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG2020 - Consumer Behaviour

MKTG3050 Retail Management
Unit Value: 10
Looks at all aspects of analysing the overall distribution system, the retail environment, and developing and implementing retail strategies, through an in-depth analysis of: location decisions, store design, merchandising processes, pricing, promotion, customer service and retail selling. Throughout the course there is an emphasis on the role of performance indicators, benchmarking and best practices and the application of these principles to Australian and international retail organisations and to the underlying retail concepts and functions.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG2020 - Consumer Behaviour

MKTG3060 International Marketing
Unit Value: 10
Discusses the complexities of marketing in an international environment, while addressing local market characteristics. Expands on marketing theory learned in other marketing courses as well as incorporating theory specific international/global marketing management.

Contact hours: 3 hours per week
Assumed Knowledge: MKTG2020 - Consumer Behaviour
MKTG3410  Entrepreneurship  
Unit Value: 10  
Examines the theory, practice and nature of entrepreneurship. Topics include the role of the entrepreneur in business, characteristics of entrepreneurial organisations, entrepreneurs as economic catalysts, determinants and measures of entrepreneurial effectiveness, female and ethnic entrepreneurs, and stress and the entrepreneurial role.  
Contact hours: 3 hours per week  
Assumed Knowledge: MKTG100 - Marketing Principles  
MKTG226 - Business Venturing

MKTG3430  Enterprise Development  
Unit Value: 10  
Focuses on understanding the determinants of the growth, development and performance of small and medium size enterprises and, in particular, on how to improve this performance. The strategies, resources and management processes of such enterprises are examined, focusing on problem areas identified in both academic and practitioner literature.  
Assumed Knowledge: MKTG100 - Marketing Principles

MKTG4100  Marketing and Enterprise IVA  
Unit Value: 10  
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.  
Contact hours: By arrangement  
Assumed Knowledge: Approval Head of School

MKTG4120  Marketing and Enterprise IVC  
Unit Value: 10  
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.  
Assumed Knowledge: Approval Head of School

MKTG4130  Marketing and Enterprise IVD  
Unit Value: 10  
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.  
Assumed Knowledge: Approval Head of School

MKTG4150  Thesis in Marketing and Enterprise I  
Unit Value: 20  
Develops research skills and demonstrates the student’s command of theory and research methods through their application in an original piece of empirical research. The thesis of approximately 20,000 words embodies an original investigation of an approved topic in marketing and/or enterprise. Students must demonstrate competence in reviewing the appropriate literature, developing appropriate research questions and research methodologies, undertaking fieldwork and presenting the findings in a scholarly manner.  
Contact hours: By arrangement  
Assumed Knowledge: Admission to the Honours program

MKTG4160  Thesis in Marketing and Enterprise II  
Unit Value: 20  
Provides students with an opportunity to develop research skills and demonstrate their command of theory and research methods through their application in an original piece of empirical research.  
Assumed Knowledge: Admission to the Honours program

MNGT3150  International Business Issues and Cases  
Unit Value: 10  
Encompasses the dual themes of discussing significant contemporary international business issues and analysing case studies in international business that reflect these issues. Current issues include the implications of the internet and electronic commerce, the harmonisation of international business regulations, strategic alliances and the future of the global firm, regionalisation and international business opportunities, competitive strategies for small and medium sized firms in a global economy.  
Contact hours: 2 hours per week  
Assumed Knowledge: ECON2247

MNGT3190  International Business Project  
Unit Value: 10  
Provides students with the perspective of a manager of a company whose performance is affected by the international business environment. Emphasis is placed on integrating theory, empirical evidence and management practice. Topic areas include international management issues, accounting, marketing, financial systems, institutions and market practices, investment, trade and industrial relations.  
Contact hours: 3 hours per week  
Assumed Knowledge: Credit grade point average in course work completed in previous five semesters (from a total of 200 points).

MNGT3340  Project in Marketing  
Unit Value: 10  
Available only to Bachelor of Business students in pre 1997 program structure.  
Students complete a major project based on the framework developed in MNGT332 and involving interaction with the business community. Common lectures and seminars are held as well as lectures in each specialist area. At the end of the semester groups present seminars on their work.  
Contact hours: 2 hours per week  
Assumed Knowledge: Students who have not undertaken a number of courses within the marketing discipline will not have sufficient grounding in theory to undertake the project and thus will disadvantage themselves and their group members. The prior assumed knowledge requirements for this course are that students have a substantial understanding of marketing theory which can be demonstrated by 30 units in marketing.

MNGT3400  Project in Enterprise Management  
Unit Value: 10  
Available only to Bachelor of Business students in pre 1997 program structure.  
Students complete a major project based on the framework developed in MNGT332 and involving interaction with the business community. Common lectures and seminars are held as well as lectures in each specialist area. At the end of the semester groups present seminars on their work.  
Contact hours: 2 hours per week  
Assumed Knowledge: Students who have not undertaken a number of courses within the marketing discipline will not have sufficient grounding in theory to undertake the project and thus will disadvantage themselves and their group members. The prior assumed knowledge requirements for this course are that students have a substantial understanding of marketing theory which can be demonstrated by 30 units in marketing.

MNGT4010  Advanced Business Research Methods  
Unit Value: 10  
Develops the research skills of students wishing to pursue a career involving consulting/research within the business arena. The subject aims to achieve three objectives: firstly, to provide a broad foundation for scientific thinking and method, secondly, to introduce students to research design strategies, the role of measurement, sampling methods, secondary data sources, case study methods, observational research and experimentation; and thirdly to facilitate a broader understanding of statistical principles and methods.  
Contact hours: 3 hours per week  
Assumed Knowledge: ECRM201 and 50 credit points at 100 level or equivalent or ECRM301 and 30 credit points at 200 level or equivalent.

MNGT4100  Management IVA  
Unit Value: 10  
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.  
Contact hours: By arrangement  
Assumed Knowledge: Admission to the Honours program

MNGT4110  Management IVB  
Unit Value: 10  
Exposes students to empirical, theoretical and research concepts and methods which they do not encounter in their pass programs and which are necessary for them to undertake the substantial research involved in a research thesis.  
Assumed Knowledge: Admission to the Honours program
MRSC1000  MRS Professional Methods IA
Unit Value: 10
The two key components of the subject which begin to be developed are profession specific learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.
Assumed Knowledge: Nil

MRSC1010A  MRT Physics, Radiation Biol & Protection (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Develops foundation knowledge of the physics of medical radiation science. Issues discussed include the physical principles underlying; diagnostic radiography, radiation therapy & nuclear medicine; radiation protection; radiation biology; the interaction of radiation with matter; atomic structure.
Contact hours: By arrangement
Assumed Knowledge: Nil

MRSC1010B  MRT Physics, Radiation Biol & Protection (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Develops foundation knowledge of the physics of medical radiation science. Issues discussed include the physical principles underlying; diagnostic radiography, radiation therapy & nuclear medicine; radiation protection; radiation biology; the interaction of radiation with matter; atomic structure.
Contact hours: By arrangement
Assumed Knowledge: Nil

MRSC1020A  MRT Instrumentation (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Develops foundation knowledge about the equipment and instrumentation used within medical radiation science and clinical practice. Specifically the subject discusses the instrumentation used in radiography, radiation therapy and nuclear medicine, to both deliver doses of radiation and measure such doses of radiation. This subject is closely aligned with MRTC101 and develops concepts about instrumentation as MRTC101 develops understanding about the physics of medical radiation science.
Contact hours: By arrangement
Assumed Knowledge: Nil

MRSC1020B  MRT Instrumentation (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Develops foundation knowledge about the equipment and instrumentation used within medical radiation science and clinical practice. Specifically the subject discusses the instrumentation used in radiography, radiation therapy and nuclear medicine, to both deliver doses of radiation and measure such doses of radiation. This subject is closely aligned with MRTC101 and develops concepts about instrumentation as MRTC101 develops understanding about the physics of medical radiation science.
Contact hours: By arrangement
Assumed Knowledge: Nil

MRSC1040A  Medical Radiation Techniques (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
MRSC1040A is a Year 1 Bachelor of Medical Radiation Science (MRS) course.
The two key components of the course which begin to be developed are profession specific learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.
Assumed Knowledge: Nil

MRSC1040B  Medical Radiation Techniques (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
MRSC1040 is a Year 1 Bachelor of Medical Radiation Science (MRS) subject.
The two key components of the subject which begin to be developed are profession specific learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.
Assumed Knowledge: Nil

MRSC1050  MRS Professional Methods IB
Unit Value: 10
The two key components of the subject which begin to be developed are profession specific learning and outcomes, and generic graduate learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in diagnostic radiography, radiation therapy, or nuclear medicine, so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.
Assumed Knowledge: Nil
This subject provides the student with the opportunity to experience, apply, and develop, generic health science and profession specific knowledge, skills and attitudes in the clinical setting. Integrated blocks of clinical education in a variety of health care facilities will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. Students will engage in both multi-disciplinary pre-clinical health care learning opportunities, such as communications, ethics and health law, and patient care, and also in profession specific health care applying MRS clinical procedures. The student will begin to develop an understanding of the health care team and the role of the medical radiation practitioner as a member of that team. The student will undertake professionally orientated practice for a specific strand in the clinical environment. Clinical placement occurs during semester 1 and semester 2.

Assumed Knowledge: Nil.

This course develops foundation knowledge of the physics and instrumentation associated with the field of Medical Radiation Science (MRS). Issues discussed include the physical principles underlying; diagnostic radiography, radiation therapy, nuclear medicine; the interaction of radiation with matter; atomic structure; instrumentation used in MRS.

Assumed Knowledge: Nil.

This subject develops foundation knowledge of radiobiology & radiation protection associated with Medical Radiation Science (MRS). Issues discussed include radiation biology and radiation protection; measurement and detection of radiation; image quality.

Assumed Knowledge: Nil.

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1. It presents the principles of the circuits used in X-ray equipment for imaging purposes. It introduces equipment and explains the principles employed for mobile radiography, conventional tomography, mammography, fluoroscopic imaging, Computerised Tomography (CT), and Magnetic Resonance Imaging (MRI).

Assumed Knowledge: MRTC101, MRTC102

This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. At the same time, the student will further develop their understanding of the health care team and role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice for a specific strand in the clinical environment. Clinical placement is for six weeks in Semester 1 and for four weeks in Semester 2.

Assumed Knowledge: Clinical Applications I

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1 and aims to present radiation therapy students with the physical principles underlying the use of ionising radiation in radiontherapy. The subject includes the physics & instrumentation of external beam therapy, brachytherapy, and computerised planning. There is an emphasis on radiation safety.

Assumed Knowledge: MRTC101, MRTC102

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1 and aims to present radiation therapy students with the physical principles underlying the use of ionising radiation in radiontherapy. The subject includes the physics & instrumentation of external beam therapy, brachytherapy, and computerised planning. There is an emphasis on radiation safety.

Assumed Knowledge: MRTC101, MRTC102

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1 and aims to present radiation therapy students with the physical principles underlying the use of ionising radiation in radiontherapy. The subject includes the physics & instrumentation of external beam therapy, brachytherapy, and computerised planning. There is an emphasis on radiation safety.

Assumed Knowledge: MRTC101, MRTC102

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1 and aims to present radiation therapy students with the physical principles underlying the use of ionising radiation in radiontherapy. The subject includes the physics & instrumentation of external beam therapy, brachytherapy, and computerised planning. There is an emphasis on radiation safety.

Assumed Knowledge: MRTC101, MRTC102

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on the Year 1 subject MRTC104. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Assumed Knowledge: MRTC104 Medical Radiation Techniques I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on the Year 1 subject MRTC104. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Assumed Knowledge: MRTC104 Medical Radiation Techniques I

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. At the same time, the student will further develop their understanding of the health care team and role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice for a specific strand in the clinical environment. Clinical placement is for six weeks in Semester 1 and for four weeks in Semester 2.

Assumed Knowledge: Clinical Applications I

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on the introduction to medical radiation science physics & instrumentation developed in Year 1 and aims to present radiation therapy students with the physical principles underlying the use of ionising radiation in radiontherapy. The subject includes the physics & instrumentation of external beam therapy, brachytherapy, and computerised planning. There is an emphasis on radiation safety.

Assumed Knowledge: MRTC101, MRTC102

This subject provides the student with the opportunity to experience, apply, and develop, generic health science and profession specific knowledge, skills and attributes in the clinical setting. Integrated blocks of clinical education in a variety of health care facilities will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. Students will engage in both multi-disciplinary pre-clinical health care learning opportunities, such as communications, ethics and health law, and patient care, and also in profession specific health care applying MRS clinical procedures. The student will begin to develop an understanding of the health care team and the role of the medical radiation practitioner as a member of that team. The student will undertake professionally orientated practice for a specific strand in the clinical environment. Clinical placement occurs during semester 1 and Semester 2.

Assumed Knowledge: Nil.

This subject provides the student with the opportunity to experience, apply, and develop, generic health science and profession specific knowledge, skills and attributes in the clinical setting. Integrated blocks of clinical education in a variety of health care facilities will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. Students will engage in both multi-disciplinary pre-clinical health care learning opportunities, such as communications, ethics and health law, and patient care, and also in profession specific health care applying MRS clinical procedures. The student will begin to develop an understanding of the health care team and the role of the medical radiation practitioner as a member of that team. The student will undertake professionally orientated practice for a specific strand in the clinical environment. Clinical placement occurs during semester 1 and Semester 2.

Assumed Knowledge: Nil.

This subject provides the student with the opportunity to experience, apply, and develop, generic health science and profession specific knowledge, skills and attributes in the clinical setting. Integrated blocks of clinical education in a variety of health care facilities will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. Students will engage in both multi-disciplinary pre-clinical health care learning opportunities, such as communications, ethics and health law, and patient care, and also in profession specific health care applying MRS clinical procedures. The student will begin to develop an understanding of the health care team and the role of the medical radiation practitioner as a member of that team. The student will undertake professionally orientated practice for a specific strand in the clinical environment. Clinical placement occurs during semester 1 and Semester 2.

Assumed Knowledge: Nil.

This subject provides the student with the opportunity to experience, apply, and develop, generic health science and profession specific knowledge, skills and attributes in the clinical setting. Integrated blocks of clinical education in a variety of health care facilities will facilitate increased confidence and competence in undertaking and participating in basic professional procedures. Students will engage in both multi-disciplinary pre-clinical health care learning opportunities, such as communications, ethics and health law, and patient care, and also in profession specific health care applying MRS clinical procedures. The student will begin to develop an understanding of the health care team and the role of the medical radiation practitioner as a member of that team. The student will undertake professionally orientated practice for a specific strand in the clinical environment. Clinical placement occurs during semester 1 and Semester 2.

Assumed Knowledge: Nil.
The two key components of the subject which are developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Assumed Knowledge:** MRTC101

**MRSC2102**

**Diagnostic Radiography Methods IIA**

This year 2 subject builds on the introduction to medical radiation science physics & instrumentation covered in Year 1. This subject examines the principles and design of instrumentation used in Nuclear Medicine Technology. It discusses methods of detection and measurement of radiation, statistical treatment, instrumentation components and collimation techniques. Applications of the components to particular radiation detectors is covered, together with the display of information via recording devices, and analog and digital displays.

**Unit Value:** 5

**Assumed Knowledge:** MRTC100

**MRSC2110A**

**Nuclear Medicine Techniques I (Part A)**

The two key components of the subject which are developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1000 MRS Professional Methods IA

**MRSC2110B**

**Nuclear Medicine Techniques I (Part B)**

This subject is Part B of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Protocols for each procedure will be discussed, including indications for the procedure, limitations and any variations that may be required: nuclear medicine practice. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 5

**Contact hours:** 4 hours per week

**Assumed Knowledge:** MRSC1004 Medical Radiation Techniques I

**MRSC2130**

**Oncological Principles I**

MRTC213 in semester 1 introduces issues related to the study of oncology, oncology decision making and radiation oncology, and then in semester 2 develops knowledge on the practice and procedure of radiation oncology by disease site or disease process. It is designed so that students will appreciate the relationship between the study of radiation oncology and application of radiation therapy, and also develop an appreciation of the decision making process involving patient, oncologist and therapist.

**Unit Value:** 5

**Assumed Knowledge:** Human Anatomy and Physiology I

**MRSC2140A**

**Techniques in Radiation Therapy I (Part A)**

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 5

**Contact hours:** 6 hours per week

**Assumed Knowledge:** Medical Radiation Techniques I

**MRSC2140B**

**Techniques in Radiation Therapy I (Part B)**

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Contact hours:** 6 hours per week

**Assumed Knowledge:** Medical Radiation Techniques I

**MRSC2150**

**Diagnostic Radiography Methods IIIB**

The two key components of the subject which are developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1050 MRS Professional Methods IB

**MRSC2200**

**Radiation Therapy Methods IIIB**

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1000 MRS Professional Methods IA

**MRSC2250**

**Radiation Therapy Methods IIIB**

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiographic examinations of the axial skeleton and contrast enhanced radiographic examinations of the abdominal tracts. Consideration is given to patient presentations such as Trauma, Paediatrics, Geriatrics, Mobile and Theatre Radiography in addition to higher modality instrumentation such as Tomography, Fluoroscopy and Digital Imaging. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1050 MRS Professional Methods IB

**MRSC2300**

**Nuclear Medicine Methods IIA**

The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radionuclides in Nuclear Medicine imaging procedures. Protocols for procedures will be discussed, including indications for the procedure, limitations and any variations that may be required. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1000 MRS Professional Methods IA

**MRSC2350**

**Nuclear Medicine Methods IIB**

The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radionuclides in Nuclear Medicine imaging procedures. Protocols for procedures will be discussed, including indications for the procedure, limitations and any variations that may be required. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

**Unit Value:** 10

**Assumed Knowledge:** MRSC1050 MRS Professional Methods IB
MRSC2400 MRS Clinical Education IIA
Unit Value: 10
This subject provides the student with the opportunity to experience, apply, and develop professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in clinical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice for a specific strand in the clinical environment. The subject also includes the study of health psychology.
Assumed Knowledge: MRSC1400 Clinical Applications IA

MRSC2450 MRS Clinical Education IIB
Unit Value: 10
This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in clinical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice for a specific strand in the clinical environment. The subject also includes the study of health psychology.
Assumed Knowledge: MRSC1450 Clinical Applications IB

MRSC2500 MRS Physics & Instrumentation IIA
Unit Value: 10
This subject discusses the physics and the principles of operation of equipment used in Medical Radiation Science. The subject is divided into common topics all strands will undertake, and topics specific to Diagnostic Radiography, Radiation Therapy or Nuclear Medicine.
Common topics include the concepts of Digital Imaging (DI) and Magnetic Resonance Imaging (MRI).
Diagnostic Radiography topics include Fluoroscopy and Mammography.
Nuclear Medicine topics include radioactive decay and detectors, including Gamma cameras.
Radiation Therapy topics include external beam radiotherapy, brachytherapy, computerised planning, and dosimetry.
The subject includes lectures, tutorials and labs.
Assumed Knowledge: MRSC1550 MRS Physics & Radiation Protection IB

MRSC2550 MRS Physics & Instrumentation IIB
Unit Value: 10
This subject discusses the physics and the principles of operation of equipment used in Medical Radiation Science.
The subject is divided into specific topics for Diagnostic Radiography, Radiation Therapy and Nuclear Medicine.
Diagnostic Radiography topics include Ultrasound and Computed Tomography.
Nuclear Medicine topics include Ultrasound and SPECT and PET.
Radiation Therapy topics include External Beam Therapy, Brachytherapy and Computerised Planning and Dosimetry.
The subject includes lectures, tutorials and labs.
Assumed Knowledge: MRSC2500 MRS Physics & Instrumentation IIA

MRSC3010A Diagnostic Radiography Techniques II (Part A)
Unit Value: 15
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Builds on the Year 2 subject MRTD203. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The profession specific area of study examines the multi-modality imaging of disease as undertaken in the modern medical imaging department. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Assumed Knowledge: MRTD203 Diagnostic Radiography II

MRSC3010B Diagnostic Radiography Techniques II (Part B)
Unit Value: 20
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Builds on the Year 2 subject MRTD203. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The profession specific area of study examines the multi-modality imaging of disease as undertaken in the modern medical imaging department. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Assumed Knowledge: MRTD203 Diagnostic Radiography II

MRSC3060A Clinical Applications III (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Clinical placement is for four weeks pre-semester 1, six weeks in Semester 1, and for four weeks in Semester 2. This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice in the clinical environment.
Assumed Knowledge: MRTT205 Clinical Applications II

MRSC3060B Clinical Applications III (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Clinical placement is for four weeks pre-semester 1, six weeks in Semester 1, and for four weeks in Semester 2. This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. Student undertakes professionally orientated practice in the clinical environment.
Assumed Knowledge: MRTT205 Clinical Applications II

MRSC3090A Oncological Pathology (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Will concentrate on the pathological aspects of malignant disease and will build on the student’s previous knowledge of general and systemic pathology.
The course will take the format of practical sessions. Students will be expected to look at and interpret pathological specimens at a gross and microscopic level and help will be available.
Assumed Knowledge: Successful completion of MRTT213
Concurrent with MRTT313

MRSC3090B Oncological Pathology (Part B)
Unit Value: 5
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Will concentrate on the pathological aspects of malignant disease and will build on the student’s previous knowledge of general and systemic pathology.
The course will take the format of practical sessions. Students will be expected to look at and interpret pathological specimens at a gross and microscopic level and help will be available.
Assumed Knowledge: Successful completion of MRTT213
Concurrent with MRTT313

MRSC3100 Nuclear Medicine Pharmacology II
Unit Value: 5
Examines the principles of design, production, preparation and the physiological behaviour of radiopharmaceuticals. Practical laboratory experience will prepare the student to undertake these techniques in the clinical environment.
Contact hours: 2 hours per week
Assumed Knowledge: MRTN210

MRSC3100 Diagnostic Radiography Methods IIIA
Unit Value: 20
The two key components of the subject which are developed are specific professional learning and outcomes, and generic graduate learning and outcome. The profession specific area of study examines the multi-modality imaging of disease as undertaken in the modern medical imaging department.
Assumed Knowledge: MRSC2100 Diagnostic Radiography Methods IIA

MRSC3110 Nuclear Medicine Instrumentation II
Unit Value: 5
Examines the principles and design of instrumentation used in Nuclear Medicine Technology. It discusses methods of detection and measurement of radiation, statistical treatment, instrumentation components and collimation techniques. Applications of the components to particular radiation detectors is covered, together with the display of information via recording devices, and analog and digital displays.
Contact hours: 3 hours per week
Assumed Knowledge: MRTN209 Nuclear Medicine Instrumentation I
MRSC3120A Nuclear Medicine Techniques II (Part A)

Unit Value: 15

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Protocols for each procedure will be discussed, including indications for the procedure, limitations and any variations that may be required. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Contact hours: 4 hours per week

Assumed Knowledge: MRRT211 Nuclear Medicine Techniques II

MRSC3120B Nuclear Medicine Techniques II (Part B)

Unit Value: 10

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Further develops the two key components of the subject, specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiopharmaceuticals in Nuclear Medicine imaging procedures. Protocols for each procedure will be discussed, including indications for the procedure, limitations and any variations that may be required. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Contact hours: 4 hours per week

Assumed Knowledge: MRRT211 Nuclear Medicine Techniques II

MRSC3130A Oncological Principles II (Part A)

Unit Value: 5

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the year 2 subject MRTT213. This subject develops knowledge on the practice and procedure of radiation oncology by disease site or disease process. It is designed so that students will appreciate the relationship between the study of radiation oncology and application of radiation therapy, and also develop an appreciation of the decision making process involving patient, oncologist and therapist.

Assumed Knowledge: MRRT213 Oncological Principles II

MRSC3130B Oncological Principles II (Part B)

Unit Value: 5

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on the year 2 subject MRTT213. This subject develops knowledge on the practice and procedure of radiation oncology by disease site or disease process. It is designed so that students will appreciate the relationship between the study of radiation oncology and application of radiation therapy, and also develop an appreciation of the decision making process involving patient, oncologist and therapist.

Assumed Knowledge: MRRT213 Oncological Principles II

MRSC3140 Ultrasound Physics

Unit Value: 5

Develops knowledge about the physics & instrumentation of medical ultrasound. Issues include the interaction processes of sound as it interacts with the tissues of the body and within the transducer; the production and display of images; the use of Doppler ultrasound to detect abnormalities in blood flow and restrictions of vessels; biological effects and how they can be reduced; and methods of quality assurance.

Contact hours: 2 hours per week

Assumed Knowledge: nil

MRSC3150 Diagnostic Radiography Methods IIIB

Unit Value: 20

The two key components of the subject which are developed are specific professional learning and outcomes, and generic graduate learning and outcome. The profession specific area of study examines the multi-modality imaging of disease as undertaken in the modern medical imaging department.

Assumed Knowledge: MRCS2150 Diagnostic Radiography Methods IIIB

MRSC3150 Digital Imaging

Unit Value: 5

Develops knowledge about the physics & instrumentation of digital imaging in medical radiation science imaging and treatment. Issues include the interaction processes of sound as it interacts with the tissues of the body and within the transducer; the production and display of images; the use of Doppler ultrasound to detect abnormalities in blood flow and restrictions of vessels; biological effects and how they can be reduced; and methods of quality assurance. This subject will provide the student with a knowledge of the theoretical aspects of digital image production and the applications of digital imaging technology in medicine.

Contact hours: 2 hours per week

Assumed Knowledge: none

MRSC3160A Techniques in Radiation Therapy II (Part A)

Unit Value: 10

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Builds on the Year 2 subject MRRT214. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Assumed Knowledge: MRRT214 Radiation Therapy Techniques IIIB

MRSC3160B Techniques in Radiation Therapy II (Part B)

Unit Value: 15

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Builds on the Year 2 subject MRRT214. The two key components of the subject which are further developed are specific professional learning and outcomes, and generic graduate learning and outcome. The professional specific area of study examines the issues of radiation therapy simulation, planning, and treatment. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.

Assumed Knowledge: MRRT214 Radiation Therapy Techniques IIIB

MRSC3200 Radiation Therapy Methods IIIA

Unit Value: 20

The four key components of the subject which are developed are specific radiation therapy profession learning and outcomes, studies in oncology, oncological pathology, and generic health science learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in radiation therapy simulation, planning, and treatment so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Issues related to the study of oncology, oncology decision making, and the practice and procedure of radiation oncology by disease site or disease process are also covered. It is designed so that students will appreciate the relationship between the study of radiation oncology and application of radiation therapy, and also develop an appreciation of the decision making process involving patient, oncologist and therapist.

Assumed Knowledge: MRSC2200 Radiation Therapy Practice IIIB

MRSC3250 Radiation Therapy Methods IIIB

Unit Value: 20

The four key components of the subject which are developed are specific radiation therapy profession learning and outcomes, studies in oncology, oncological pathology, and generic health science learning and outcomes. The professional specific area of study develops the knowledge, skills and attitudes required in radiation therapy simulation, planning, and treatment so that the student can use developing clinical reasoning skills to manage patients/clients and undertake professionally orientated practice and procedures. Issues related to the study of oncology, oncology decision making, and the practice and procedure of radiation oncology by disease site or disease process are also covered. It is designed so that students will appreciate the relationship between the study of radiation oncology and application of radiation therapy, and also develop an appreciation of the decision making process involving patient, oncologist and therapist.

Assumed Knowledge: MRSC2250 Radiation Therapy Practice IIIB

MRSC3300 Nuclear Medicine Methods IIIA

Unit Value: 20

The three key components of the subject which are developed are nuclear medicine methods, radiation biology, and radiopharmacy. The nuclear medicine methods component examines the issues in Nuclear Medicine imaging procedures, protocols for procedures will be discussed, including indications for the procedure, limitations and any variations that may be required.

Radiation biology examines the principles of radiobiology, including dosimetry, biological effects of radiation and radiation protection methods. Radiopharmacy examines the principles of design, production, preparation and the physiological behaviour of radiopharmaceuticals. Practical laboratory experience will prepare the student to undertake these techniques in the clinical environment.

Assumed Knowledge: MRSC2300 Nuclear Medicine Techniques IIIB

MRSC3350 Nuclear Medicine Methods IIIB

Unit Value: 20

The three key components of the subject which are developed are nuclear medicine methods, radiation biology, and radiopharmacy. The nuclear medicine methods component examines the issues in Nuclear Medicine imaging procedures, protocols for procedures will be discussed, including indications for the procedure, limitations and any variations that may be required.

Radiation biology examines the principles of radiobiology, including dosimetry, biological effects of radiation and radiation protection methods. Radiopharmacy examines the principles of design, production, preparation and the physiological behaviour of radiopharmaceuticals. Practical laboratory experience will prepare the student to undertake these techniques in the clinical environment.

Assumed Knowledge: MRSC2350 Nuclear Medicine Techniques IIIB
MRSC3400 Clinical Education IIIA
Unit Value: 10
This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes, informed by a sociological perspective, in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. They will also examine how social forces including medical technology and social constructions of the body shape health care, health outcomes and relations between patients and health professionals.

Assumed Knowledge: MRSC2450 Clinical Education IIA

MRSC3450 Clinical Education IIIB
Unit Value: 10
This subject provides the student with the opportunity to experience, apply, and develop, professionally relevant knowledge, skills and attitudes, informed by a sociological perspective, in a clinical setting. The integrated blocks of clinical studies will facilitate increased confidence and competence in undertaking and participating in medical procedures. At the same time, the student will further develop their understanding of the health care team and the role of the medical radiation practitioner as a member of that team. They will also examine how social forces including medical technology and social constructions of the body shape health care, health outcomes and relations between patients and health professionals.

Assumed Knowledge: MRSC2450 Clinical Education IIIB

MRSC3600 MRS Research Project IIIA
Unit Value: 10
The development of introductory research skills that enable students to participate in research within their and complementary professions, and participate successfully in higher degree research courses, is one of the aims of the undergraduate course. The project is designed to allow students to research a topic of essentially their choosing. The project need not be restricted to issues directly related to medical radiation science practice or procedure but may include related topics or indirectly associated issues. The project is to be undertaken in research groups that encourages peer support, team work, and the realism of being part of a research team.

Assumed Knowledge: Nil.

MRSC3650 MRS Research Project IIIB
Unit Value: 10
The development of introductory research skills that enable students to participate in research within their and complementary professions, and participate successfully in higher degree research courses, is one of the aims of the undergraduate course. The project is designed to allow students to research a topic of essentially their choosing. The project need not be restricted to issues directly related to medical radiation science practice or procedure but may include related topics or indirectly associated issues. The project is to be undertaken in research groups that encourages peer support, team work, and the realism of being part of a research team.

Assumed Knowledge: Nil.

MRSC4010A Readings in Medical Radiation Technology (Part A)
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Is a research development subject that is designed to build on the students appreciation and understanding of research by analysing and critically appraising the research of others. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent. Concurrent enrolment in MRSC402.

MRSC4010B Readings in Medical Radiation Technology (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Is a research development subject that is designed to build on the students appreciation and understanding of research by analysing and critically appraising the research of others. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or equivalent. Concurrent enrolment in MRSC402.

MRSC4020A Seminars in Medical Radiation Technology (Part A)
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Is a research development subject that is designed to build on the students appreciation and understanding of research and develop their ability to create a research plan and present orally. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or the equivalent. Concurrent enrolment in MRSC401.

MRSC4020B Seminars in Medical Radiation Technology (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Is a research development subject that is designed to build on the students appreciation and understanding of research and develop their ability to create a research plan and present orally. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or the equivalent. Concurrent enrolment in MRSC401.

MRSC4030A Research Project in Med Rad Tech (Part A)
Unit Value: 20
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

The basis of this subject is completion of a research project and the production of a research thesis. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or the equivalent.

MRSC4030B Research Project in Med Rad Tech (Part B)
Unit Value: 20
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

The basis of this subject is completion of a research project and the production of a research thesis. 

Assumed Knowledge: Undergraduate degree in Medical Radiation Science or the equivalent.

MUSI1011 Practical Music Studies (Education) 1
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it. 

Assumed Knowledge: There is no assumed knowledge for the subject other than the entry requirements for the program/ies, audition and minimum academic standard.

MUSI1012 Practical Music Studies (Education) 2
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it. 

Assumed Knowledge: MUSI1011 Practical Music Studies (Education) 1

MUSI1201 Principal Study 1
Unit Value: 10
Introductory studies in practical music including composition and church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it. Students are also required to participate in Large Ensemble (Choir, Orchestra or Wind Orchestra). Classes will be held at the Conservatorium.

Contact hours: 3 hours per week though hours may vary depending on Large Ensemble requirements.

Assumed Knowledge: Nil

MUSI1202 Principal Study 2
Unit Value: 10
Introductory studies in practical music including composition and church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it. Classes will be held at the Conservatorium.

Contact hours: 2 hours per week 

Assumed Knowledge: MUSI1201 Principal Study 1. Course is limited to program enrolment or permission of the Dean.
MUSI4602 Research Project
Unit Value: 20
Students will write and submit a minor thesis of normally 15-25,000 words in length, developed under supervision. The thesis may, if appropriate, be accompanied by a recorded or live performance submission.
Assumed Knowledge: MUSI404 Research Seminar

MUSI4603 Research Essay
Unit Value: 20
Prepares students for the writing of a minor thesis. Students develop, under supervision, an outline of their proposed music research topic together with a sample chapter for submission (normally between 3000-5000 words).
Assumed Knowledge: Entry to Bachelor of Music (Honours)

MUSI4604 Musicology Project
Unit Value: 20
Students develop a research project under supervision comprising a thesis of 15,000-25,000 words which may be accompanied by a recorded or live performance submission.
Assumed Knowledge: MUSI404

NEWS122 Newstep - English
Unit Value: 10
Develops academic reading and writing skills needed for undergraduate study at University. It provides practice in oral communication skills in an academic setting.
Contact hours: 2 lecture hours and 1 tutorial hour per week
Assumed Knowledge: Nil

NEWS122C Newstep English
Unit Value: 10
NEWS122C Newstep English develops reading and writing skills needed for undergraduate study at University. It provides practice in oral communication skills in an academic setting.
Contact: One 2 hour lecture and a 1 hour tutorial per week
Assumed Knowledge: Nil

NEWS123 Newstep English
Unit Value: 10
NEWS123 Newstep English develops reading and writing skills needed for undergraduate study at University. It provides practice in oral communication skills in an academic setting.
Contact: One 2 hour lecture and a 2 hour tutorial per week
Assumed Knowledge: NEWS122 Newstep English

NEWS123C Newstep English
Unit Value: 10
NEWS123C Newstep English develops reading and writing skills needed for undergraduate study at University. It provides practice in oral communication skills in an academic setting.
Contact: One 2 hour lecture and a 2 hour tutorial per week
Assumed Knowledge: Nil

NEWS124 Mathematics Advanced
Unit Value: 10
Mathematics Advanced prepares students for those courses requiring a rigorous level of mathematics. This first semester course is a prerequisite for NEWS125 Advanced Mathematics in the second semester. The depth and treatment of this subject is similar to 2/3 Unit Higher School Certificate mathematics. Topics include algebra, surds, linear and quadratic equations, trigonometry and sequences and series.
Contact: Two hours of lectures and two hours of tutorials per week
Assumed Knowledge: Mathematical techniques equivalent to year 10 School Certificate.

NEWS124C Mathematics Advanced
Unit Value: 10
NEWS124C Advanced Mathematics prepares students for those courses requiring a rigorous level of mathematics. This subject includes algebra, surds, equations, trigonometry, the linear function, quadratics and sequences and series. The depth of treatment is similar to 2/3 Unit Higher School Certificate mathematics.
Contact: Two hours of lectures and two hours of tutorials per week
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate.

NEWS125 Mathematics Advanced
Unit Value: 10
NEWS125 Mathematics Advanced prepares students for those courses requiring a rigorous level of mathematics. The depth and treatment of this subject is similar to 2/3 Unit Higher School Certificate mathematics. Topics include calculus (differentiation and integration), applications to the physical world and to trigonometry, exponential and logarithmic functions, growth and decay, probability and the binomial theorem.
Contact: Two hours of lectures and two hours of tutorials per week
Assumed Knowledge: NEWS124 Advanced Mathematics - in Semester One.

NEWS125C Mathematics Advanced
Unit Value: 10
NEWS125C Mathematics Advanced prepares students for those courses requiring a rigorous level of mathematics. This subject includes calculus, differentiation and integration, applications including the physical world and trigonometry, exponentials and logarithms, growth and decay, probability and the binomial theorem. The depth of treatment is similar to 2/3 Unit Higher School Certificate mathematics.
Contact: Two hours of lectures and two hours of tutorials per week
NEWS126 Mathematical Studies  
Unit Value: 10

NEWS126 Mathematical Studies prepares students for those courses requiring a non-rigorouse level of mathematics. This subject includes: the scientific calculator and number theory, types of data, collecting and organising data, types of data displays, measures of central tendency and measures of dispersion, data analysis. The depth of treatment is similar to Higher School Certificate 2 Unit Mathematics in Society.

Contact: Two hours of lectures and a one hour tutorial per week.  
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate.

NEWS126C Mathematical Studies  
Unit Value: 10

NEWS126C Mathematical Studies prepares students for those courses requiring a non-rigorouse level of mathematics. This subject includes: the scientific calculator and number theory, types of data, collecting and organising data, types of data displays, measures of central tendency and measures of dispersion, data analysis. The depth of treatment is similar to Higher School Certificate 2 Unit Mathematics in Society.

Contact: Two hours of lectures and a one hour tutorial per week.  
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate.

NEWS127 Newstep - Mathematical Studies  
Unit Value: 10

NEWS127 Newstep Mathematical Studies prepares students for degrees requiring a non-rigorouse level of mathematics. This subject includes: the normal distribution, statistical measures; ratio and variation; elementary trigonometry; the linear function and simultaneous equations; quadratic equations; elementary probability including set theory; the depth of treatment is similar to HSC 2 Unit Mathematics in Society.

Contact: One 2 hour lecture and a 1 hour tutorial per week  
Assumed Knowledge: NEWS126 Newstep Mathematical Studies

NEWS128 Mathematics for the Sciences  
Unit Value: 10

NEWS128 Mathematics for the Sciences introduces a broad range of topics in areas of mathematics most likely to be encountered by students whose major interests are in the sciences, engineering or commerce. These topics covered are the parts of calculus and algebra which have proved fundamental to all mathematics and its applications.

Contact: 4 hours of lectures and 2 hours of tutorials per week.

NEWS137 Australian Culture and Society  
Unit Value: 10

Introduces students to the basic dimensions, inequalities, and likely future directions of contemporary Australian society. It also outlines the nature and operation of selected social institutions. Emphasis is placed on the skills of note-taking, research, analysis and essay writing that are widely applicable to tertiary study.

Contact: 2 lecture hours and 1 tutorial hour per week  
Assumed Knowledge: Nil

NEWS137C Australian Culture and Society  
Unit Value: 10

NEWS137C introduces students to the basic dimensions, inequalities, and likely future directions of contemporary Australian society. It also outlines the nature and operation of selected social institutions. Emphasis is placed on the skills of note-taking, research, analysis and essay writing that are widely applicable to tertiary study.

Contact: 1 hour lecture and a one hour tutorial per week  
Assumed Knowledge: Nil

NEWS138 Tertiary Preparation Studies  
Unit Value: 10

NEWS138 Tertiary Preparation Studies comprises two interrelated strands: academic skills and career options; and computer literacy. It covers the academic and computer skills needed to start undergraduate study at University and provides information on undergraduate study and possible future careers.

Contact: 4 hours of lectures per week  
Assumed Knowledge: Nil

NEWS138C Tertiary Preparation Studies  
Unit Value: 10

NEWS138C Tertiary Preparation Studies comprises two interrelated strands: academic skills and career options; and computer literacy. It covers the academic and computer skills needed to start undergraduate study at University and provides information on undergraduate study and possible future careers.

Contact: 4 hours of lectures per week  
Assumed Knowledge: Nil

M

MUSI1210 Materials of Music 1  
Unit Value: 5

An elementary study of harmony, aural comprehension and sight-singing. The study of harmony provides rudimentary harmonic and contrapuntal procedures. It develops understanding in all styles of music composed in the period of tonality, through actual composition.

The study of aural comprehension at this level, introduced through graded exercises, develops the areas of intervals, triads, melodic structures, rhythmical phrases and elementary chordal concepts. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.

Availability in Semester 2 subject to student numbers. Please contact the Conservatorium student administration office.

Assumed Knowledge: Admission to the course.

MUSI1211 Principal Study (Studio Teaching) 1  
Unit Value: 10

Introductory studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.

Classes will be held at the Conservatorium.

Contact: 3 hours per week though hours may vary depending on Large Ensemble requirements.

Assumed Knowledge: Musical knowledge of a level to give admission to the Bachelor of Music.

MUSI1212 Principal Study (Studio Teaching) 2  
Unit Value: 10

Introductory studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.

Classes will be held at the Conservatorium.

Contact: 2 hours per week.

Assumed Knowledge: MUSI1211 - Principal Study (Studio Teaching) 1.

MUSI1220 Materials of Music 2  
Unit Value: 5

The study of harmony and aural. Harmony at this level provides a grasp of aaxiomat harmonic and contrapuntal procedures. These harmony studies provide students with additional harmonic resources to those studied in Material of Music 1, expanding harmonic awareness. Further applications of harmonic principles through representative works from the repertoire are discussed.

The study of aural comprehension at this level allows for recognition of the materials of music to become not only quicker, but more instinctive as the work progresses. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.

Availability in Semester 1 subject to student numbers. Please contact Conservatorium student administration office.

Assumed Knowledge: MUSI121: Materials of Music 1

MUSI1221 Principal Study Double Major 1  
Unit Value: 10

Students enrol in this subject concurrently with Principal Study 1 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: Admission to the course. Students undertaking the music technology strand will need to have an elementary understanding of the operation of a Windows 95/98 environment. Students should have completed or be concurrently enrolled in MUSI150.

MUSI1222 Principal Study Double Major 2  
Unit Value: 10

Students enrol in this subject concurrently with Principal Study 2 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: MUSI148. Students should have completed or be concurrently enrolled in MUSI151.
MUSI1310 Computing Techniques for Musicians
Unit Value: 5
Provides basic word processing and computing skills essential to the administration of music teaching studies, the organisation of musical productions/performances and in educational institutions. The use of the internet as a musical resource. Desktop publishing and graphical techniques are examined, including the creation of musical publications.
Assumed Knowledge: Nil

MUSI1320 Fundamental Music Technology
Unit Value: 5
Provides basic instruction in the operation and applications of Musical Instrument Digital Interface (MIDI), as well as the historic development and current range of sound sources and keyboard technology. Several automatic accompaniment applications are examined. Studies include the elementary skills of arranging and sequencing MIDI data extending to basic multitrack and orchestrated compositions. The application of synchronising other digital data (such as audio and video) and MIDI are examined.
Assumed Knowledge: Musical knowledge equivalent to the written entrance examination for the Faculty of Music's undergraduate degrees.

MUSI1401 Ensemble Studies 1
Unit Value: 10
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials. Voice students will have a language component as part of Small Ensemble.

Classes are held at the Conservatorium.
Contact hours: Four hours per week. Hours will vary depending upon scheduled Concert commitments.
Assumed Knowledge: There is no assumed knowledge for the subject other than the entry requirements for the course (ie audition and minimum academic standard).

MUSI1410 Musicology 1
Unit Value: 5
Emphasises the necessary musicology skills for the developing musician. The course addresses the areas of the aural awareness of the materials of music and the application of the principles of musicology 1 commences preparing the student for the detailed historical studies that are offered at 2000 and 3000 level. The topics covered are skill-based providing musicalological methodology.
Availability in Semester 2 subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Nil

MUSI1420 Musicology 2
Unit Value: 5
Further develops the necessary musicology skills for the musician. The course further addresses the areas of the aural awareness of the materials of music and the application of the principles of musicology 1 commences preparing the student for the detailed historical studies that are offered at 2000 and 3000 level. The topics covered are skill-based providing musicalological methodology.
Availability in Semester 1 subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Musicology 1: MUSI141

MUSI1550 Principal Study Performance (Education) 2
Unit Value: 10
Only available to students who commenced Bachelor of Teaching/Bachelor of Music in 1999.
The syllabus for each instrument describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it. Classes will be held at the Conservatorium.
Assumed Knowledge: Admission to the course

MUSI1600 Introduction to Studies in Western Music
Unit Value: 10
Introduction to Studies in Western Music provides rudimentary instruction in three broad areas. Harmony and repertoire studies provides an understanding of scales, intervals, triads, basic chord construction, and rudimentary harmonic procedures. Elementary analytic techniques are examined through representative studies from the repertoire. Aural studies includes written aural comprehension and sight-singing. Music history studies involves the development of introductory music research skills.
The course establishes preparatory understanding for the subsequent course Studies in Western Music
Assumed Knowledge: As this is a first year level course the assumed knowledge is an elementary understanding of the standard required in the Faculty's written and aural tests conducted during the audition process for admission.

MUSI1601 Studies in Western Music 1
Unit Value: 10
Studies in Western Music 1 provides instruction in three broad areas. Harmony and repertoire studies at this level provides a grasp of rudimentary harmonic and contrapuntal procedures and harmonic, analytical and structural concepts in relation to music from the Western tonal tradition. Aural studies allows for a basic assimilation of the rudimentary elements of pitch, rhythm and choral structure through both written comprehension and sight-singing. Music history studies develops fundamental music research skills, assimilation of concepts, and the evolution of a musical literary style in addition to providing an overview of musical style and structure in the Classical and Romantic eras.
Assumed Knowledge: The required standard in the Faculty's written and aural tests conducted during the audition process for admission OR a pass in Introduction to Studies in Western Music (MUSI 1600).

MUSI1602 Studies in Western Music 2
Unit Value: 10
Studies in Western Music 2 provides instruction in three broad areas expanding upon the concepts encountered in Studies in Western Music 1. Harmony and repertoire studies at this level provides a grasp of rudimentary harmonic and contrapuntal procedures and harmonic, analytical and structural concepts relevant to music from the Western tonal tradition. Aural studies allows for a basic assimilation of the rudimentary elements of pitch, rhythm and choral structure through both written comprehension and sight-singing. Music history studies develops fundamental music research skills, assimilation of concepts, and the evolution of a musical literary style in addition to providing a general overview of musical style in the Medieval, Renaissance and Baroque eras and music of the Twentieth Century and beyond.

MUSI1610 Principal Study (Education) 1
Unit Value: 5
Available to continuing Bachelor of Teaching/Bachelor of Music students only.
Studies in practical music on an instrument or in composition. The syllabus for each instrument or composition provides details of the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: Admission to the course.

MUSI1620 Principal Study (Education) 2
Unit Value: 5
Available to continuing Bachelor of Teaching/Bachelor of Music students only.
Studies in practical music on an instrument or in composition. The syllabus for each instrument or composition provides details of the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI162

MUSI1700 Introduction to Music Technology
Unit Value: 10
Introduction to Music Technology introduces core music technology studies within three components. Introduction to Musical Instrument Digital Interface (MIDI) explores the applications of using computers and associated electronic devices in the musical arena. Students are instructed in rudimentary applications of MIDI. The use of the computer to create music through “automatic accompaniment” applications is investigated. Elementary skills of arranging, synchronising and sequencing MIDI and other digital data are examined. Introduction to audio techniques provides an elementary overview of the operation of semi-professional and professional audio equipment. Areas of study include mixdown procedures, multitrack recording and vocal and instrumental recording techniques. Introduction to notation techniques provides introductory technology skills to produce simple musical notation.
Availability in Semester 2 is subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: As this is a first year level course the assumed knowledge is a pass in the Faculty’s written and aural tests conducted during the audition process for admission.

MUSI1801 Specialist Instrumental/Vocal Studies 1
Unit Value: 10
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: Nil
MUSI1802 Specialist Instrumental/Vocal Studies 2
Unit Value: 10
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: Nil

MUSI1811 Specialist Genre Studies 1
Unit Value: 10
Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. For options currently available please consult the Conservatorium student administration office.
Availability subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Nil

MUSI1812 Specialist Genre Studies 2
Unit Value: 10
Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. Options currently available include Opera Studies.
Availability subject to student numbers. Please consult the Conservatorium Student Administration.
Assumed Knowledge: Nil

MUSI1910 Ensemble Studies 1
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra, or Wind Ensemble) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials.
Assumed Knowledge: MUSI191

MUSI1970 Ensemble Studies Teaching (Education) 1
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation. 
Assumed Knowledge: Admission to the course.

MUSI1980 Ensemble Studies Teaching (Education) 2
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation.
Assumed Knowledge: MUSI197

MUSI2000 Basic Music Technology
Unit Value: 10
Provides a rudimentary understanding of several fields of music technology. Areas examined may include: software for musical accompaniment providing the student with skills in creating “backing” music; music appreciation software designed to enrich the students knowledge of music and technology; software for manipulating music enabling students to customise music to suit their requirements; and/or instructional music software designed to broaden the students understanding of various musical and technological fields. A number of resources will be utilised which may embrace the Internet, multimedia CDROMS and electronic musical instruments. No prior musical knowledge is required.
Assumed Knowledge: Basic knowledge of a Windows 95/98/2000 operating environment

MUSI2001 Introduction to Guitar
Unit Value: 10
Introduction to guitar teaches students to play the instrument enabling them to play simple accompaniments for folk-songs, nursery rhymes, ballads and so on. No prior musical knowledge is required for this subject. Students will be taught the elementary principles of playing the guitar, the suitability of different styles to a variety of types of songs, other uses for guitar playing, and how to tune, maintain and care for the instrument.
Students will develop the necessary technical skill to accompany small choral groups, provide musical support to class singing and the use of the guitar as an adjunct to other types of musical performance.
Not available to Bachelor of Music or Bachelor of Teaching/Bachelor of Music students.
Assumed Knowledge: Nil. Students undertaking this subject do NOT require any previous musical training.

MUSI2002 Introduction to Keyboard
Unit Value: 10
Introduction to Keyboard teaches students a number of rudimentary keyboard techniques. This introduction will facilitate the ability to play simple chordal accompaniments at the keyboard for elementary folk-songs, nursery rhymes and so on. Students will be taught the first principles of keyboard style, how to use the keyboard as an accompaniment to ensemble singing, combining drum and percussion settings to obtain musical interest, and various keyboard techniques possible at this level. No prior musical training is required for this course.
Not available to Bachelor of Music or Bachelor of Teaching/Bachelor of Music students.
Assumed Knowledge: Nil. Students undertaking this subject do NOT require any previous formal musical training.

MUSI2003 Introduction to Percussion
Unit Value: 10
Introduction to percussion explores the areas of both untuned and tuned percussion. No previous musical experience is required. The field of untuned percussion allows for the development of an understanding of basic rhythmic patterns, the concepts of beat and pulse, the use of untuned instruments including drums and blocks and how to create a group performance using such media. The area of tuned percussion involves the development of the appropriate elementary music reading skills connected with playing at a fundamental level and the group work associated with musical performance at this stage.
The course will develop a sense of basic musicianship and allow for the student to develop an appropriate set of resources for practical application of the skills acquired.
Not available to Bachelor of Music or Bachelor of Teaching/Bachelor of Music students.
Assumed Knowledge: Nil. Students undertaking this subject do NOT require any previous musical training.

MUSI2011 Practical Music Studies (Education) 3
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI1012 Practical Music Studies (Education) 2

MUSI2012 Practical Music Studies (Education) 4
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI2011 Practical Music Studies (Education) 3

MUSI2014 Introduction to Guitar 2
Unit Value: 10
This course is intended as a continuation of Introduction to Guitar and builds on the knowledge and skills learnt in that course. Students will play simple accompaniments in a range of different styles for songs suited to the primary school context. The range of chord patterns and playing techniques will be extended to suit the requirements of content and students' abilities.
Assumed Knowledge: There will be an assumed knowledge and skill level equivalent to the requirements of Introduction to Guitar MUSI2001.
MUSI2015 Introduction to Keyboard 2  
Unit Value: 10
This course is intended as a continuation of Introduction to Keyboard and builds on the knowledge and skills learnt in that course. Students will play simple pieces and accompaniments in a range of different styles for songs suited to the primary school context. The range of chord patterns and playing techniques will be extended to suit the requirements of content and students’ abilities
Assumed Knowledge: There will be an assumed knowledge and skill level equivalent to the requirements of Introduction to Keyboard MUSI2002.

MUSI2016 Vocal Studies for the Primary Classroom  
Unit Value: 10
This course aims at providing students with the skills to organise and implement vocal/choral programs suited to the primary school context. Vocal training techniques, selection and adaptation repertoire and conducting skills will be the focus of the course.
Assumed Knowledge: AART1010 Foundation in Creative Arts (Music strand)

MUSI2070 Music Publishing Software  
Unit Value: 10
For continuing students only.
Provides specialisation in the realm of music publishing and professional document production. The fundamentals of musical notation publishing techniques are examined and practically applied. The different techniques of note entry and various playback options are investigated. Students will develop techniques of exporting notational excerpts and transferring midi files between applications. The combination of notational tools is examined.
Availability subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: It is assumed that students undertaking this course have an elementary understanding of the operation of a Windows environment. Additionally, musical knowledge equivalent to the written entrance examination for the Faculty of Music’s undergraduate degrees is assumed.

MUSI2160 Composition Techniques  
Unit Value: 5
Designed to provide students with an introduction to the techniques of musical composition. The course offers two electives, Composition and Composition Through Improvisation. The Composition elective explores various compositional techniques through analysis tasks, exercises and two composition assignments during the semester. The Composition Through Improvisation elective uses improvisation as a direct pathway into the creation of a piece of music. Through structured activities students become part of the compositional process accessing their own creativity (students choose one elective only). Classes will be held at the Conservatorium.
Assumed Knowledge: Musical knowledge equivalent to MUSI1220 Making of Music 2

MUSI2170 Techniques Studies  
Unit Value: 5
The diversity of studies within practical and written music provides opportunity for specialist studies in a broad range of areas. This course will offer a range of approved electives for Bachelor of Music (Sedaya College) students only. The electives may include the specialised areas of orchestration, composition and conducting.
Assumed Knowledge: It is assumed that students will have an understanding of harmony and aural skills studied during the first two semesters of the Bachelor of Music programme.

MUSI2201 Principal Study 3  
Unit Value: 10
Intermediate level studies in practical music, composition or church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI152 Principal Study 2

MUSI2202 Principal Study 4  
Unit Value: 10
Intermediate level studies in practical music, composition or church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI250 Principal Study 3

MUSI2210 Materials of Music 3  
Unit Value: 5
Harmony at this level provides a significant extension of the rudimentary harmonic and contrapuntal procedures studied at the 100 level. This course expands the comprehension of harmonic and contrapuntal techniques through greater chordal and tonal complexities. Further study is conducted into the chorales of J.S. Bach. Aural at this level builds on the skills acquired during Aural at previous levels. Aural skills continue to be developed in line with new harmonic procedures and techniques. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.
Availability in Semester 2 subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Materials of Music 2: MUSI122

MUSI2211 Principal Study (Studio Teaching) 3  
Unit Value: 10
Intermediate studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.
Classes will be held at the Conservatorium.
Contact hours: 2 hours per week.
Assumed Knowledge: MUSI2112 - Principal Study (Studio Teaching) 2.

MUSI2212 Principal Study (Studio Teaching) 4  
Unit Value: 10
Intermediate studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.
Classes will be held at the Conservatorium.
Contact hours: 2 hours per week.
Assumed Knowledge: MUSI2211 - Principal Study (Studio Teaching) 3.

MUSI2220 Materials of Music 4  
Unit Value: 5
Harmony at this level provides a significant extension of the rudimentary harmonic and contrapuntal procedures studied in the previous 3 semesters. This course expands the comprehension of harmonic and contrapuntal techniques through greater chordal and tonal complexities. Further study is conducted into the chorales of J.S. Bach. Aural at this level builds on the skills acquired during Aural at previous levels. Aural skills continue to be developed in line with new harmonic procedures and techniques. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.
Availability in Semester 1 subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Materials of Music 3: MUSI221

MUSI2221 Principal Study Double Major 3  
Unit Value: 10
Students enrol in this subject concurrently with Principal Study 3 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI149 or permission of the Dean

MUSI2222 Principal Study Double Major 4  
Unit Value: 10
Students enrol in this subject concurrently with Principal Study 4 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI248. Students are expected to have completed or be concurrently enrolled in MUSI251.

MUSI2231 Principal Study Double Performance 3  
Unit Value: 20
Students who have achieved a very high level of performance in their first year of study may be permitted to undertake double performance courses. The syllabus requirements are somewhat higher than those for single courses.
Assumed Knowledge: Permission of the Dean. Students are expected to have attained a credit average in Principal Study subjects at 100 level.
MUSI2232 Principal Study Double Performance 4  
Unit Value: 20
Students who have achieved a very high level of performance in their first year of study may be permitted to undertake double performance courses. The syllabus requirements are somewhat higher than those for the 10 unit options.

Assumed Knowledge: MUSI258

MUSI2310 Audio Techniques  
Unit Value: 5
For continuing students only.

Designed to provide the musician with sufficient knowledge and practical skills to enable an elementary operation of semi-professional and professional audio equipment. The operation of mixdown procedures together with appropriate technological skills and elements involved in producing a multitrack recording. Additionally, studies cover the operation of a diversity of audio equipment.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: There is no assumed knowledge required to undertake this subject.

MUSI2320 Notation Techniques  
Unit Value: 5
For continuing students only.

Provides adequate skills to produce simple musical notation through the use of computer software, enabling the student to produce simple musical excerpts and solo instrumental parts. Studies also include importing MIDI files from an external source, viewing them as musical notation, editing and printing.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: Students undertaking this course will need to have an elementary understanding of the operation of a Windows environment.

Musical knowledge equivalent to the written entrance examination for the Faculty of Music’s undergraduate degrees is assumed.

MUSI2340 Orchestration  
Unit Value: 5
For continuing students only.

The study of Orchestration is designed to give students a solid foundation in the basics of orchestration and arranging for various types of ensembles and to develop their knowledge of the range and combinations of instruments used in orchestral music.

The study of string instruments and textures enables the students to perceive colour and string techniques in the works studied. Studies in wind writing, both in solo and orchestral settings, provide students with the skill for blending these instruments together in ensemble (wind and wind/strings). The nature of brass requires specialist attention to allow for the student to understand the specialist nuance of these instruments. The use of percussion, keyboard and harp are given thought and consideration. This allows the student to see the larger orchestral texture.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: Nil

MUSI2350 Conducting  
Unit Value: 5
For continuing students only.

Offers an introductory course in conducting. It is designed to give students basic technical skill in this field. The subject is predominantly practical in orientation. The basic skills of conducting are instructed through a graded series of exercises.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: Nil

MUSI2401 Ensemble Studies 2  
Unit Value: 10
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials. In addition students will attend techniques classes specific to their principal study. The techniques classes include: string orchestra, piano techniques, wind techniques, brass techniques, percussion ensemble, guitar techniques and language coaching for singers. Students may complete the program requirement of one semester of conducting concurrently with this course.

Classes will be held at the Conservatorium.

Contact hours: Four hours per week. Hours will vary depending upon scheduled concert commitments.

Assumed Knowledge: There is no assumed knowledge for the course other than the entry requirements for the course (ie audition and minimum academic standard).

MUSI2402 Ensemble Studies 3  
Unit Value: 10
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials. In addition students will attend techniques classes specific to their principal study. The techniques classes include: string orchestra, piano techniques, wind techniques, brass techniques, percussion ensemble, guitar techniques and language coaching for singers. Students may complete the program requirement of one semester of conducting concurrently with this course.

Classes will be held at the Conservatorium.

Contact hours: Four hours per week. Hours will vary depending upon scheduled concert commitments.

Assumed Knowledge: There is no assumed knowledge for the course other than the entry requirements for the course (ie audition and minimum academic standard).

MUSI2410 Musicology 3  
Unit Value: 5
Provides students with a comprehensive overview of the period 1600-1790. The main focus is the development of musical form, genre and language in this period. To this end, the course will consider the development of the sonata, the concerto, symphonic music and opera as its main components. Musical developments will be placed in their broader historical context, incorporating politics, art and literature. Additionally, students will further develop musicological skills necessary for independent study, analysis and writing: musical analysis, historical analysis, writing skills and discussion skills.

Assumed Knowledge: Musicology 2: MUSI142

MUSI2420 Musicology 4  
Unit Value: 5
Provides students with a comprehensive overview of the period 1770-1900. The main focus is the development of musical form, genre and language in this period. To this end, the course will consider the development of the sonata, the concerto, symphonic music and opera as its main components. Musical developments will be placed in their broader historical context, incorporating politics, art and literature. Additionally, students will further develop musicological skills necessary for independent study, analysis and writing: musical analysis, historical analysis, writing skills and discussion skills.

Assumed Knowledge: MUSI142

MUSI2540 Principal Study (Education) 3  
Unit Value: 5
Available to continuing Bachelor of Teaching/Bachelor of Music students only.

Studies in practical music on an instrument or in composition. The syllabus for each instrument or composition detail the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: MUSI 162

MUSI2550 Principal Study (Education) 4  
Unit Value: 5
Available to continuing Bachelor of Teaching/Bachelor of Music students only.

Studies in practical music on an instrument or in composition. The syllabus for each instrument or composition detail the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: MUSI 254

MUSI2601 Studies in Western Music 3  
Unit Value: 10
Studies in Western Music 3 provides instruction in three broad areas. Harmony and repertoire studies at this level provide a significant extension of the rudimentary harmonic and contrapuntal procedures studied at the 1000 level. Aspects of sequential and applied harmonic structure, rhythmic and melodic decoration, and expansive styles and forms are systematically investigated. Studies are commenced in the chorales of J.S. Bach. Studies in repertoire and orchestration, representative of the Western tonal tradition, expand harmonic awareness and analytical and structural concepts. Aural studies augments the prior development of pitch, rhythm and chordal structures through both written comprehension and sight-singing. Music history studies provide a comprehensive overview from 1600 to the late eighteenth century focusing on the development of musical form, genre and musical language. In a broad musical and historical context the course considers the development of vocal and instrumental music, notably the sonata, concerto, symphonic music, vocal music and opera. Music history studies further expands the students music research skills.

MUS2602 Studies in Western Music 4
Unit Value: 10
Studies in Western Music 4 provides instruction in the three broad areas. Harmony and repertoire studies at this level provides a significant extension of the rudimentary harmonic and contrapuntal procedures studied the preceding course classes. Harmonic structure, rhythm and style are expanded through concepts including modal exchange, leading note seventh and subsequent applied and modulatory techniques. Studies are continued in the chorales of J.S. Bach. Studies in repertoire and orchestra- tion, representative of the Western tonal tradition, expand harmonic awareness and analytical and structural concepts. Aural studies augments the developing pitch, rhythm and chordal structures through both written comprehension and sight-singing. Music history studies provides students with a comprehensive overview from the late eighteenth century to the close of the nineteenth century focusing on the development of musical form, genre and musical language. In a broad musical and historical context the course considers the development of vocal and instrumental music, notably the sonata, concerto, chamber music, solo instrumental music, symphonic music, vocal music and opera. Music history studies further expands the students music research skills.
Assumed Knowledge: Studies in Western Music 3 (MUSI2601) OR Materials of Music 3 (MUSI221) AND Musicology 3 (MUSI241).

MUSI2701 Sound Engineering
Unit Value: 10
Introduction to the operation and function of various pieces of audio equipment. Skills are developed for the production of good, well balanced recordings. The topics of microphone types, pickup patterns and placement on various musical instruments are examined. Digital editing techniques are examined, as well as audio enhancement. Students will experience group work in the production of a major recording with each student providing an important element of the final master.
Availability subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Nil

MUSI2702 Film Music: Soundtrack Creation
Unit Value: 10
Explores the compositional and technical aspects, aesthetics, and psychology of composing music for use with film, video, and other visual media. The major focus will be in the realm of film music, however, the principles and techniques of film scoring will transfer to other collaborative art forms using music. Essentially the primary emphasis will be on the creation of a musical soundtrack with secondary study areas to include the relationship shown in the musical creation with the basics of film making and its associated technical matters.
Assumed Knowledge: Students undertaking this subject will need to have an elementary understanding of the operation of a Windows 95/98 environment. Musical knowledge equivalent to the written entrance examination for the Faculty of Music’s undergraduate degree is assumed.

MUSI2703 Advanced Music Publishing Techniques
Unit Value: 10
The course provides instruction, at an advanced level, in the creation of music notation using computer software. The course allows for the identification of advanced score elements and the reproduction of complex musical scoring as used in musical works from the 17th century to the present day. Areas examined include complex note-entry techniques, alternative notation fonts, advanced page layouts, intricate notation terminology, exporting and importing material between software applications, best practice industry music publishing conventions and many techniques required for contemporary scoring.
Assumed Knowledge: Introduction to Music Technology (MUSI 1700) or Notation Techniques (MUSI 231).

MUSI2704 Instructional Music Software
Unit Value: 10
The course examines the multifarious areas where music education may be supported by computer software. Different applications investigated may include instrumental tutoring software, accompaniment software, software for music composition, aural/ musicianship training, and electronic music information resources. Design approaches and constructive issues of instructional music software are addressed. This will result in the student designing and producing their own interactive music instruction software package. It will use multimedia resources and be created within the architecture of a non-programming software package.
Assumed Knowledge: Introduction to Music Technology (MUSI1700) or Notation Techniques (MUSI231).

MUSI2801 Specialist Instrumental/Vocal Studies 3
Unit Value: 10
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: Nil

MUSI2802 Specialist Instrumental/Vocal Studies 4
Unit Value: 10
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: Nil

MUSI2811 Specialist Genre Studies 3
Unit Value: 10
Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. Options currently available include Opera Studies.
Availability subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Nil, Opera Studies will require audition.

MUSI2812 Specialist Genre Studies 4
Unit Value: 10
Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. Options currently available include Opera Studies.
Availability subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Nil, Opera Studies will require audition.

MUSI2910 Ensemble Studies 3
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra, or Wind Ensemble) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials.
Assumed Knowledge: MUSI192

MUSI2920 Ensemble Studies 4
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra, or Wind Ensemble) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials.
Assumed Knowledge: MUSI291

MUSI2970 Ensemble Studies Teaching (Education) 3
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation.
Assumed Knowledge: MUSI198

MUSI2980 Ensemble Studies Teaching (Education) 4
Unit Value: 5
For continuing students only.
Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation.
Assumed Knowledge: MUSI297
MUSI3011 Practical Music Studies (Education) 5
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI2012 - Practical Music Studies (Education) 4

MUSI3012 Practical Music Studies (Education) 6
Unit Value: 10
Studies in practical music on one principal instrument or composition for Bachelor of Teaching/Bachelor of Music students only. Students also undertake ensemble work and an instrument resource class. The syllabus for each instrument or composition details the minimum requirements and standards but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI3011 - Practical Music Studies (Education) 5

MUSI3201 Principal Study 5
Unit Value: 10
Advanced level studies in practical music, composition and church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI3211 - Practical Music Studies (Education) 5

MUSI3202 Principal Study 6
Unit Value: 10
Advanced level studies in practical music, composition and church music. The syllabus for each instrument, composition and church music describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI3201 - Principal Study 5

MUSI3210 Materials of Music 5
Unit Value: 5
Provides the student with a significant extension of the rudimentary harmonic and contrapuntal procedures studied at the second year level. Aspects of chromatic harmonic structure and advanced harmonic rhythm are studied, using a comprehensive series of graded exercises in addition to examples from the literature. A study of aural at third year level builds on the skills acquired during aural at the second year level. At all times the techniques studied are related to the student’s work in harmony. Thus aural skills are developed in line with new harmonic procedures and techniques, while also having the objective in mind of enhancing the student’s aural comprehension of the literature. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.
Availability in Semester 2 subject to student numbers. Please consult the Conservatorium student administration office.
Assumed Knowledge: Materials of Music 4: MUSI222.

MUSI3211 Principal Study (Studio Teaching) 5
Unit Value: 10
Advanced studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.
Classes will be held at the Conservatorium.
Contact hours: 2 hours per week.
Assumed Knowledge: MUSI2212 - Principal Study (Studio Teaching) 4.

MUSI3212 Principal Study (Studio Teaching) 6
Unit Value: 10
Advanced studies in practical music specializing in the necessary skill and knowledge required to become a competent performer and studio teacher. Classes and lectures will provide detailed guidance in repertoire and teaching techniques to enable students to gradually improve their musical standard in performance and to learn the skills necessary to become successful studio teachers.
Classes will be held at the Conservatorium.
Contact hours: 2 hours per week.
Assumed Knowledge: MUSI3211 - Principal Study (Studio Teaching) 6.

MUSI3220 Materials of Music 6
Unit Value: 5
This final examination requires a complete and thorough demonstration and recognition of the range of Western tonal harmony. Materials of Music 6 provides the student with their final studies in the areas of harmony and aural comprehension.
Further aspects of advanced chromatic harmonic structure are discussed. Studies in the chorales of J.S. Bach are completed. The harmonic structures and idiom discussed during the six semesters of Materials of Music are consolidated, using a comprehensive series of graded exercises in addition to examples from the literature. Aural comprehension during the final semester builds on the skills acquired during the preceding five semesters. Aural skills continue to be developed in line with new harmonic procedures and techniques, while also having the objective in mind of enhancing the student’s aural comprehension of the literature. Aural comprehension in this subject consolidates the students overall understanding as developed during the previous semesters of this subject area. The study of sight-singing examines these same areas with an emphasis on producing the sound rather than notating it.
Availability in Semester 1 subject to student numbers. Please consult the Conservatorium student administration office.

MUSI3221 Principal Study Double Major 5
Unit Value: 10
Students enrol in this subject concurrently with Principal Study 5 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI3249. Students are expected to have completed or be concurrently enrolled in MUSI350.

MUSI3222 Principal Study Double Major 6
Unit Value: 10
Students enrol in this subject concurrently with Principal Study 6 in order to undertake study in a second instrument, composition, church music or music technology. Approval from the Dean is required. The syllabus for each instrument, composition, church music and music technology describes in detail the minimum requirement and standard for this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.
Assumed Knowledge: MUSI3248. Students are expected to have completed or be concurrently enrolled in MUSI351.

MUSI3231 Principal Study Double Performance 5
Unit Value: 20
Students who have achieved a very high level of performance in their previous years of study may be permitted to undertake double performance subjects. The syllabus requirements are somewhat higher than those for the 10 unit courses.
Assumed Knowledge: MUSI259 or MUSI251 and permission of the Dean.

MUSI3232 Principal Study Double Performance 6
Unit Value: 20
Students who have achieved a very high level of performance in their previous years of study may be permitted to undertake double performance subjects. The syllabus requirements are somewhat higher than those for the 10 unit courses.
Assumed Knowledge: MUSI358.

MUSI3401 Ensemble Studies 4
Unit Value: 10
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials. In addition students will attend techniques classes specific to their principal study. The techniques classes include, string orchestra, piano techniques, wind techniques, brass techniques, percussion ensemble, guitar techniques and language coaching for singers. Students may complete the program requirement of one semester of conducting concurrently with this course. Classes will be held at the Conservatorium.
Contact hours: Four hours per week. Hours will vary depending upon scheduled Concert/commitments.
Assumed Knowledge: There is no assumed knowledge for the course other than the entry requirements for the course (ie audition and minimum academic standard).

MUSI3402 Ensemble Studies 5
Unit Value: 10
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials. Voice students will have a language component as part of Small Ensemble. Classes will be held at the Conservatorium.
Contact hours: Four hours per week. Hours will vary depending upon scheduled Concerts commitments.
Assumed Knowledge: There is no assumed knowledge for the course other than the entry requirements for the course (ie audition and minimum academic standard).
Having studied important periods of music history in Musicology at the 2000 level, the purpose of Musicology 5 is to allow the student greater specialisation in a number of areas. To that end, elective topics will be used. The topics covered are quite diverse and allow for development of students' proven interests in these fields. The electives may include: Studies in the Classical Era; Performance Practice; Composers World; Australian Music; Twentieth Century Music; Music theatre; Liturgical Studies. 

Assumed Knowledge: MUSI241 Musicology 3 and MUSI242 Musicology 4

MUSI3420 Musicology 6

Unit Value: 5

Having studied important periods of music history in Musicology at the 2000 level, the purpose of Musicology 6 is to allow the student greater specialisation in a number of areas. To that end, elective topics will be used. The topics covered are quite diverse and allow for development of students' proven interests in these fields. The electives may include: Studies in the Classical Era; Performance Practice; Composers World; Australian Music; Twentieth Century Music; Music theatre; Liturgical Studies.

Assumed Knowledge: Musicology 5: MUSI341.

MUSI3540 Principal Study (Education) 5

Unit Value: 5

Advanced level studies in practical music performance on one instrument for continuing Bachelor of Teaching/Bachelor of Music students only. The syllabus for each instrument describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: MUSI 255

MUSI3550 Principal Study (Education) 6

Unit Value: 5

Advanced level studies in practical music performance on one instrument for continuing Bachelor of Teaching/Bachelor of Music students only. The syllabus for each instrument describes in detail the minimum requirements and standards at this level but is flexible enough to encourage higher levels of attainment for those capable of achieving it.

Assumed Knowledge: MUSI 354

MUSI3601 Studies in Western Music 5

Unit Value: 10

Studies in Western Music 5 provides instruction in three broad areas. Harmony and repertoire studies at this level build on the harmonic foundations established in the preceding 100 and 200 level courses. Harmonic structure, rhythm and style are expanded through concepts including added dissonance and chromatic chords. Studies in the chorales of J.S. Bach continue with additional consideration shown to their application. This expanding harmonic awareness is applied to harmonic analytical and structural concepts through studies in repertoire representative of the Western tonal tradition. Aural studies expands the continued development of pitch, rhythm and chordal structures through both written comprehension and sight-singing. Music history studies at the 300 level is delivered through a combination of lectures, tutorials, seminars and/or workshops. Music history studies offer elective strands. These may include Performance Practice (including research by performance) or Twentieth Century Music Survey.


MUSI3602 Music Research Studies

Unit Value: 10

The course offers the opportunity to pursue specialist study through elective areas. The electives covered are diverse allowing for the development of students' interests. Each elective affords students the opportunity to pursue research in the chosen discipline area.

The electives discuss relevant musical styles and composers, always placing the historical facts in context with the music itself. A first-hand knowledge of the sound of the music is developed, and where possible, live performances of works are presented in workshops, seminars and concerts at the Conservatorium. Each component places the music in historical context while undertaking studies of relevant important works.

The electives may include (but not be limited to) Performance Practice, Australian Music, Twentieth Century Music, Repertoire Studies or Composers World.


MUSI3801 Specialist Instrumental/Vocal Studies 5

Unit Value: 10

Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.

Assumed Knowledge: Nil

MUSI3802 Specialist Instrumental/Vocal Studies 6

Unit Value: 10

Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Flamenco Guitar, Baroque Brass, Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment. Please contact the Conservatorium student administration office for details.

Assumed Knowledge: Nil

MUSI3811 Specialist Genre Studies 5

Unit Value: 10

Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. For options currently available please contact the Conservatorium student administration office.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: Nil

MUSI3812 Specialist Genre Studies 6

Unit Value: 10

Introduces students to specific historical periods and/or genres of musical activity and practice including the specific oeuvre of individual composers, the output of a school of composition or the product of a specific period of Western music. Options currently available include Opera Studies. For other options please contact the Conservatorium student administration office.

Availability subject to student numbers. Please consult the Conservatorium student administration office.

Assumed Knowledge: Nil. Opera Studies option will require audition.

MUSI3910 Ensemble Studies 5

Unit Value: 5

For continuing students only.

Students perform in two ensembles: an ensemble larger than chamber proportions (this may include choir or a larger instrumental ensemble); and a small ensemble (this may include duos, trios and larger chamber music combinations). In small ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials.

Assumed Knowledge: MUSI292

MUSI3920 Ensemble Studies 6

Unit Value: 5

For continuing students only.

Students perform in two ensembles: an ensemble larger than chamber proportions (this may include choir or a larger instrumental ensemble); and a small ensemble (this may include duos, trios and larger chamber music combinations). In small ensembles students are introduced to the techniques and styles of ensemble playing through lectures, demonstrations and tutorials.

Assumed Knowledge: MUSI391

MUSI3970 Ensemble Studies Teaching (Education) 5

Unit Value: 5

For continuing students only.

Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation.

Assumed Knowledge: MUSI298

MUSI3980 Ensemble Studies Teaching (Education) 6

Unit Value: 5

For continuing students only.

Students perform in Large Ensemble (Choir, Orchestra or Wind Ensemble) and attend a resource class which will cover one of the following: Voice, Guitar, Percussion, Keyboard, Brass or Woodwind. In the resource class students are taught the basic techniques required to enable them to use these instruments in a classroom situation.

Assumed Knowledge: MUSI397

MUSI4201 Performance I

Unit Value: 20

Advanced practical work in both solo and ensemble performance with a supervisor.

Assumed Knowledge: Nil

MUSI4202 Performance II

Unit Value: 20

Further develops both solo and ensemble performance with a supervisor.

Assumed Knowledge: MUSI400
MUSI4203  Professional Development Seminar  
**Unit Value:** 20  
Develops advanced skills in accompaniment, operatic performance or such other advanced specialisations.  
**Assumed Knowledge:** MUSI400 or MUSI406  

MUSI4204  Performance Project  
**Unit Value:** 20  
Students will gain experience in, and understanding of, advanced techniques and skills at a professional level, together with a written analysis of their performance, providing a rationale for those techniques/strategies and a substantial account of the rehearsal and performance process.  
**Assumed Knowledge:** MUSI408  

MUSI4211  Composition 1  
**Unit Value:** 20  
Advanced composition skills in both solo and small ensemble works.  
**Assumed Knowledge:** Nil  

MUSI4212  Composition 11  
**Unit Value:** 20  
Further develops composition skills.  
**Assumed Knowledge:** MUSI406  

MUSI4601  Research Seminar  
**Unit Value:** 20  
Introduces students to the variety of forms and styles of music research.  
**Assumed Knowledge:** Nil  

NUDI1020A  Foods 1 (Part A)  
**Unit Value:** 10  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Examines basic human needs with respect to food, nutrition and health, the factors affecting choice and the availability of food. A study of food commodities integrates basic food science with the development of practical skills.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** Nil  

NUDI1020B  Foods 1 (Part B)  
**Unit Value:** 5  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Examines basic human needs with respect to food, nutrition and health, the factors affecting choice and the availability of food. A study of food commodities integrates basic food science with the development of practical skills.  
**Contact:** 3 hours per week  
**Assumed Knowledge:** Nil  

NUDI1030  Introductory Nutrition  
**Unit Value:** 10  
Introduces a range of concepts which form the basis of nutritional science. Also examines the relation between these concepts within the course as well as their relation to other nutrition courses. Areas of study include history of nutrition, food and health, nutrition and nutrient requirements, food composition, food and dietary guidelines, Government policies, food and culture and current issues.  
Students will also be introduced to an interprofessional core component, studies with other health science students of the faculty, which embraces the key areas of communication skills development, health ethics and evidence based practice.  
**Assumed Knowledge:** Nil  

NUDI1040A  Food Chemistry (Nutrition and Dietetics) (Part A)  
**Unit Value:** 5  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
A foundation subject with emphasis on the fundamental principles of general and organic chemistry in relation to food, nutrition and health. An overview of the properties of macronutrients (carbohydrates, fatty acids and lipids, and amino acids and proteins) and their role in metabolic pathways is also included.  
**Assumed Knowledge:** NIL  

NUDI1040B  Food Chemistry (Nutrition and Dietetics) (Part B)  
**Unit Value:** 10  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
A foundation subject with emphasis on the fundamental principles of general and organic chemistry in relation to food, nutrition and health. An overview of the properties of macronutrients (carbohydrates, fatty acids and lipids, and amino acids and proteins) and their role in metabolic pathways is also included.  
**Assumed Knowledge:** NIL  

NUDI1050A  Food Chemistry (Design & Technology)(Part A)  
**Unit Value:** 5  
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
A foundation subject with emphasis on the fundamental principles of general and organic chemistry in relation to food, nutrition and health. An overview of the properties of macronutrients (carbohydrates, fatty acids and lipids, and amino acids and proteins) is also included.  
**Assumed Knowledge:** nil  

NUDI1050B  Food Chemistry (Design & Technology)(Part B)  
**Unit Value:** 5  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
A foundation subject with emphasis on the fundamental principles of general and organic chemistry in relation to food, nutrition and health. An overview of the properties of macronutrients (carbohydrates, fatty acids and lipids, and amino acids and proteins) is also included.  
**Assumed Knowledge:** nil
NUDI1200 Nutrition 1
Unit Value: 10
Introduces students to the study of nutrition with a focus on factors influencing food consumption of individuals and groups, and their nutrition requirements. This links the study of food choice behaviour, dietary guidelines, food composition, and nutrition assessment. A study of the sectors of the food industry and government bodies that are committed to achieving better nutrition for all Australians is included.
Assumed Knowledge: None

NUDI1210 Introductory Dietetics
Unit Value: 10
Introduces students to the dietetic profession. Students are provided with the opportunity to learn about the specific functions of dietitians at the commencement of their studies. Communication skills and an evidence based approach to best practice in nutrition and dietetics is also developed.
Assumed Knowledge: Nil

NUDI1220 Food Science 1
Unit Value: 10
Studies the chemical and physical composition of foods, with a special emphasis on fats, oils and carbohydrates, including interactions between and alterations within food components, as raw commodities are turned into processed food ready for consumption. The link between food processing, food consumption and health outcomes are also considered. A study of ethics and health law, and Aboriginal health is included.
Assumed Knowledge: NUDI1200 Nutrition 1

NUDI1230 Introductory Food Chemistry
Unit Value: 10
A foundation course with emphasis on the fundamental principles of chemistry in relation to food, nutrition and health. The course will focus on the study of organic chemistry, examining nomenclature and classes of organic compounds, the structure, properties and reactions of important functional organic groups and major types of organic reactions. Students are given an overview of the properties of the macronutrients, carbohydrates, fatty acids and lipids, and amino acids and proteins.
Assumed Knowledge: There is no assumed knowledge.

NUDI2020 Nutrients
Unit Value: 10
Develops the student’s knowledge of the physico-chemical nature, levels, utilisation and modification during processing/storage of nutrients in food. Topics include: chemical nature, digestion, metabolism, requirements and health effects of deficiency/ excess, levels of carbohydrates, fats, protein, vitamins, minerals, water, alcohol, within food.
Assumed Knowledge: Nil

NUDI2070A Food Science II (Part A)
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Includes a study of carbohydrates, starches, fibres and vegetable gums, as well as lipids, protein structure and protein foods, amino acids and beverages. Colours, flavours and additives are considered, as well as fruits, vegetables and produce development.
Assumed Knowledge: Assumed knowledge of chemistry and understanding of concepts of biochemistry and microbiology.

NUDI2070B Food Science II (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Includes a study of carbohydrates, starches, fibres and vegetable gums, as well as lipids, protein structure and protein foods, amino acids and beverages. Colours, flavours and additives are considered, as well as fruits, vegetables and produce development.
Assumed Knowledge: Assumed knowledge of chemistry and understanding of concepts of biochemistry and microbiology.

NUDI2100 Consumer Studies II
Unit Value: 10
The study of household consumption in terms of consumer satisfaction and living standards, and the concept of sustainable lifestyles. Students examine environmental resource management in a consumer versus conserver society, including food, water, energy, pollution and waste management. Students also study basic research methods and carry out a research project.
Assumed Knowledge: NUDI106 Consumer Studies 1

NUDI2110 Community Nutrition Practice
Unit Value: 10
Students are introduced to the role of a dietitian in a community setting, through a series of lectures and tutorials focussing on the theory and practice of health promotion and its application to dietetics. As part of this subject, students will spend four consecutive weeks at a community health agency working on a nutrition promotion project.
Assumed Knowledge: NUDI103 Introductory nutrition

NUDI2120 Applied Nutrition
Unit Value: 10
Explores specific nutritional requirements and nutritional related problems at different stages of the life cycle starting from foetus to old age, and various intervention strategies to improve nutritional status of individuals. It also introduces to students some common dietary assessment methodologies.
Assumed Knowledge: Assumed knowledge of nutrients in foods and their metabolism in human body.

NUDI2130 Health 2B
Unit Value: 5
Explains the role of carbohydrates, proteins and fats in providing appropriate energy levels; selection of recommended food sources; understanding of athletic nutritional requirements and emphasis on appropriate eating habits to enhance performance.
Assumed Knowledge: nil

NUDI2200 Nutrition 2
Unit Value: 10
Provides an introduction to the study of essential macronutrients and micronutrients with reference to the Australian diet. The course explores the specific nutritional requirements and nutrition related problems at all stages of the life cycle.
Assumed Knowledge: NUDI1200 Nutrition 1

NUDI2220 Food Science 2
Unit Value: 10
Studies of the chemical and physical composition of foods, interactions between and alterations within food components, especially protein foods. The scientific bases for preparation, processing, modification and production of manufactured foods is also studied.
Assumed Knowledge: NUDI1220

NUDI2230 Research Methods and Statistics
Unit Value: 10
Introduces students to research methods and basic biostatistics. It covers theoretical aspects of designing studies to answer a research question.
Assumed Knowledge: Nil

NUDI2240 Nutrition in Childhood
Unit Value: 10
The study of nutrition in childhood will focus on food and nutrition requirements, and nutrition education for children. The development of eating behaviours and barriers to change will also be studied. Students will be provided with the opportunity to integrate theory with practical applications in the laboratory.
Assumed Knowledge: nil

NUDI3010A Food Science (N & D) (Part A)
Unit Value: 5
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
a study of food science; the properties of carbohydrates, fats and proteins related to the commercial production of foods; systematic discussion of classifications and properties of food additives; food labelling and regulations;
a study of food technology and techniques and nutritional implications of freezing, drying, canning, heating and milling, brewing and distilling of foods and drinks;
a study of the classification and marketing of natural and manufactured goods
Assumed Knowledge: Assumed knowledge of chemistry and other sciences (biochemistry, microbiology)

NUDI3010B Food Science (N & D) (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
a study of food science; the properties of carbohydrates, fats and proteins related to the commercial production of foods; systematic discussion of classifications and properties of food additives; food labelling and regulations;
a study of food technology and techniques and nutritional implications of freezing, drying, canning, heating and milling, brewing and distilling of foods and drinks;
a study of the classification and marketing of natural and manufactured goods
Assumed Knowledge: Assumed knowledge of chemistry and other sciences (biochemistry, microbiology)
NUDI3030A Food and Food Service (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Links the study of nutrition with food service operations through menu design, quantity food preparation and production, and the management of food service operations, with particular attention being given to quality control and food safety. As part of this course, students will spend two consecutive weeks at a food service agency working on a project, and up to five single days in various food preparation facilities.
Assumed Knowledge: Foods and nutrition, applied nutrition, nutrients, and writing skills.

NUDI3030B Food and Food Service (Part B)
Unit Value: 5
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Links the study of nutrition with food service operations through menu design, quantity food preparation and production, and the management of food service operations, with particular attention being given to quality control and food safety. As part of this course, students will spend two consecutive weeks at a food service agency working on a project, and up to five single days in various food preparation facilities.
Assumed Knowledge: Foods and nutrition, applied nutrition, nutrients, and writing skills.

NUDI3040B Food Technology III (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Semester 1 - Food Safety and Quality Systems:
A study of the fundamental principles underlying food safety and quality including: food preservation technologies and their effect on food safety, the microbial ecology of foods particularly those groups of bacteria of significance in food poisoning and spoilage, food hygiene, and Quality Systems and their elements with emphasis given to flowcharting and practical HACCP procedures through a Case Study fieldwork assignment.
Semester 2 - Food Processing and Product Development:
A study of the principles and regulatory requirements of food processing and product development focussing on sensory science, food preservation technologies and their effect on food quality, and the characteristics and applications of modifying agents such as gums, starches and emulsifiers.
Assumed Knowledge: NUDI1040A & NUDI1040B Food Chemistry NUDI2070A & NUDI2070B Food Science

NUDI3050A Applied Nutrition III (Part A)
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Examines the application of nutrition in the food and health sector to change the eating habits of groups, communities and populations. Includes the development of a nutrition education program and practical exercises in product development. In Semester One, students attend weekly workshop-style classes, focussed on the knowledge and skills necessary for nutrition program development. In Semester Two, students undertake self-directed program development, with occasional class sessions.
Contact hours: 2 hours per week
Assumed Knowledge: n/a

NUDI3050B Applied Nutrition III (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Examines the application of nutrition in the food and health sector to change the eating habits of groups, communities and populations. Includes the development of a nutrition education program and practical exercises in product development. In Semester One, students attend weekly workshop-style classes, focussed on the knowledge and skills necessary for nutrition program development. In Semester Two, students undertake self-directed program development, with occasional class sessions.
Contact hours: 2 hours per week
Assumed Knowledge: n/a

NUDI3060A Product Development Project (Part A)
Unit Value: 10
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Students undertake a supervised research project and self-directed guided learning with assistance from their research supervisors. The project will involve integration of existing knowledge of food science and technology, applied nutrition and research design and methodology.
Projects must have a research component that the student is able to work on independently and ideally be in a field where sufficient published literature exists to enable the student to prepare a Literature Review of current knowledge relevant to the research topic. Examples of suitable fields include: market research; product development; community health and consumer education.
Students have a Discipline staff member as supervisor, with whom they are required to make regular appointments to discuss project direction and progress. Students will meet with an external consultant during the practical/fieldwork component of the project to seek advice and information relating to specific technical aspects of the project.
Contact hours: By arrangement
Assumed Knowledge: NUDI104 Food Chemistry NUDI207 Food Science

NUDI3060B Product Development Project (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Students undertake a supervised research project and self-directed guided learning with assistance from their research supervisors. The project will involve integration of existing knowledge of food science and technology, applied nutrition and research design and methodology.
Projects must have a research component that the student is able to work on independently and ideally be in a field where sufficient published literature exists to enable the student to prepare a Literature Review of current knowledge relevant to the research topic. Examples of suitable fields include: market research; product development; community health and consumer education.
Students have a Discipline staff member as supervisor, with whom they are required to make regular appointments to discuss project direction and progress. Students will meet with an external consultant during the practical/fieldwork component of the project to seek advice and information relating to specific technical aspects of the project.
Contact hours: By arrangement
Assumed Knowledge: NUDI104 Food Chemistry NUDI207 Food Science

NUDI312B Therapeutic Dietetics (Part B)
Unit Value: 10
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Deals with the role of nutrition in the disease process and the methodologies used in the nutritional assessment of, and dietary prescription for individuals and groups. Third Year Nutrition and Dietetics students will examine the theory and practice of nutrition and dietetics in the field of therapeutics and will develop skills in counselling individual clients to manage dietary problems.
As part of this subject, students will spend two consecutive weeks on practical placement in a hospital.
Contact hours: 9 hours per week
Assumed Knowledge: NUDI211 (Compulsory Prerequisite), BCHM206, NUDI212, Concurrent Assumed Knowledge: ALSC302, NUDI303, PSYCH376

NUDI3130 Micro-Nutrients
Unit Value: 10
Students will apply their knowledge of biochemistry, physiology and other sciences in the understanding of the principles of nutrition with special emphasis on micro-nutrients (vitamins and inorganic elements). The main purpose is to stimulate the interest of students in nutrition and in the role of nutrition in maintaining normal body metabolism and functions as well as the prevention and treatment of chronic diseases.
Assumed Knowledge: Assumed knowledge of nutrients and their metabolism in the human body.

NUDI3160 Macro-Nutrients
Unit Value: 10
Students will apply their knowledge of biochemistry, physiology and other sciences in the understanding of the principles of nutrition with special emphasis on macro-nutrients (carbohydrates, fats, proteins, alcohol and energy). The main purpose is to stimulate the interest of students in nutrition and in the role of nutrition in maintaining normal body metabolism and functions as well as the prevention and treatment of chronic diseases.
Assumed Knowledge: Assumed knowledge of chemistry, biochemistry and physiology as relates to nutrients in foods.
NUDI3170 Food Science and Food Safety  
Unit Value: 10
This course is divided into two strands, Strand A and Strand B.

Strand A - Food Safety  
A study is made of the fundamental principles underlying food safety and quality, including the microbial ecology of foods, food poisoning, food spoilage, food hygiene and HACCP.

Strand B - Food Science  
This strand covers the chemical composition of protein rich foods, interactions between and alterations within the food components. Knowledge of the chemical and physical properties and characteristics of individual food components provides the basis for understanding preparation and processing procedures for food production.  
Assumed Knowledge: Foods and nutrition, microbiology

NUDI3200 Product Development (Design & Technology)  
Unit Value: 10
A study of the principles and regulatory legislation of product development and food processing with a focus on sensory science, food processing technologies and their effect on food quality, and the characteristics and applications of modifying agents such as gums, starches and emulsifiers.  
Contact hours: 5 hours per week  
Assumed Knowledge: NUDI207 Food Science

NUDI3210 Food Safety and Quality Systems  
Unit Value: 10
Studies the fundamental principles underlying food safety and quality; the microbial ecology of foods particularly those groups of bacteria, of significance in food poisoning and spoilage; food hygiene; Quality Systems and their elements with emphasis given to flowcharting and practical Hazard Analysis of Critical Control Points (HACCP) procedures.  
Assumed Knowledge: NUDI1230 Introductory Chemistry  
NUDI2220 Food Science 2  
HUBS2201A Biochemistry - Part A  
HUBS2201B Biochemistry - Part B

NUDI3220 Clinical Nutrition 1  
Unit Value: 10
Studies nutrition as it relates to the prevention and treatment of disease. The course deals with the nutritional aspects of diseases and clinical disorders by integrating students' existing knowledge of physiology, biochemistry and food science.  
Assumed Knowledge: NUDI2220 Food Science  
HUBS2206A Physiology  
NUDI2220 Nutrition 2  
HUBS2201A Biochemistry - Part A  
HUBS2201B Biochemistry - Part B  
CONCURRENT ASSUMED KNOWLEDGE: NUDI3240 Dietetic Practice

NUDI3230 Clinical Nutrition 2  
Unit Value: 10
Studies clinical nutrition as it relates to the prevention and treatment of disease at the individual level. The course integrates the students' knowledge of Physiology and Biochemistry and Food Science.  
Assumed Knowledge: NUDI3230 Clinical Nutrition 1  
NUDI3240 Dietetic Practice  
CONCURRENT ASSUMED KNOWLEDGE: NUDI3270 Nutrition, Health and Disease

NUDI3250 Programs for Nutrition Education  
Unit Value: 10
Students will learn the theory of nutrition education and its application to groups in the community. Students will apply both nutrition knowledge and health promotion skills to the process of nutrition education. Students learn the theory of small group education processes and have the opportunity to observe and facilitate learning in small groups.  
Assumed Knowledge: NUDI2110, NUDI2200.

NUDI3260 Food Service, Food Industry  
Unit Value: 10
Explores issues associated with the management of nutrition and dietetics in food service operations. This includes menu planning, ordering, and preparation methods for quantity food production, quality control, modification of foods and meals for special needs. Nutrition issues related to the food industry are also considered. Students will have the opportunity to apply their theoretical knowledge and skills in professional food service practice.  
Assumed Knowledge: NUDI2200 Nutrition 2, NUDI2220 Food Science 2, NUDI3210 Food Safety and Quality Systems.

NUDI3270 Nutrition in Health and Disease  
Unit Value: 10
Offers a rational framework from which nutrition is used as an integral part of outcomes management in health and disease. Biochemical abnormalities with nutritional implications for loss of health and development of disease are examined.  
Assumed Knowledge: NUDI3220, NUDI3230 to be concurrent

NUDI3300 Research Project Design & Nutritional Immunology  
Unit Value: 10
This course has two modules. Module one permits the student to develop a research proposal in any area of nutrition, after carefully searching the literature, developing a research design and seeking ethical approval (if required by the nature of the project). Successful completion of this module permits the student to carry out the project in the 4th year of the degree program.  
The immunology module will begin with a lecture on differences between innate and acquired immunity. Antigens, antibodies, Tcell receptors will be presented at a molecular level. Then the nature of antigen-antibody interactions including complement function will be presented. The molecular insights gained here will then be used to explain the response of lymphocytes to antigens. Particular emphasis will be placed on the nutritional aspects of immunity and the mechanisms of immune sensitivity. The pivotal roles of the cytokines will be stressed throughout the course.  
Assumed Knowledge: Basic cell biology and biochemistry and microbiology

NUDI4100A Consumer Science Honours 410 (Part A)  
Unit Value: 20
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Comprises two seminar series: Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaborating with a sector of the food/related industry to investigate a current problem/issue. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.  
Assumed Knowledge: Bachelor of Applied Science (Consumer Science) degree

NUDI4100B Consumer Science Honours 410 (Part B)  
Unit Value: 20
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Comprises two seminar series: Series A is a series of seminar presentations based on directed readings and critical evaluation of the literature and current research. Seminar topics will vary each year depending on availability of staff. Series B involves collaborating with a sector of the food/related industry to investigate a current problem/issue. This work will be carried out under the supervision of the Discipline of Nutrition and Dietetics. Students will be required to undertake a literature review related to this investigation.  
Assumed Knowledge: Bachelor of Applied Science (Consumer Science) degree

NUDI4110A Consumer Science Honours 411 (Part A)  
Unit Value: 20
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Comprises a research thesis. Under supervision, students will draw on the skills and knowledge gained in NUDI410 to develop, conduct, analyse and report on a piece of empirical research. The thesis is a formal presentation of this research and should be limited to fifty pages of A4 size, excluding the appendices and references. Students will also present their findings in a seminar in NUDI410.  
Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI4110B Consumer Science Honours 411 (Part B)  
Unit Value: 20
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
Comprises a research thesis. Under supervision, students will draw on the skills and knowledge gained in NUDI410 to develop, conduct, analyse and report on a piece of empirical research. The thesis is a formal presentation of this research and should be limited to fifty pages of A4 size, excluding the appendices and references. Students will also present their findings in a seminar in NUDI410.  
Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI4150 Dietetics Practice  
Unit Value: 30
Students develop their dietetic practice competencies, consisting solely of 18 weeks fieldwork placements: clinical (12 weeks), food services (2 weeks), community (4 weeks).  
Assumed Knowledge: NUDI4140 and NUDI4160
NUDI4160 Nutrition Education Programs
Unit Value: 10
Focuses on nutrition education programs, especially the strategy of small group education. The subject is conducted through tutorial style workshops, and observations of dietitians in the community. It is designed to prepare students for a four week fieldwork placement in community nutrition in semester 2.
Contact hours: 4 hours per week
Assumed Knowledge: NUDI211 Community Nutrition Practice

NUDI4170 Research Project
Unit Value: 10
Involves students in either carrying out a small research project in the area of nutrition and dietetics or critically reviewing an area of research relevant to nutrition and dietetics and preparing a report of the results in the form of a Journal article. Skills acquired include data collection and entry, interpersonal communication, analysis and interpretation of data and report writing.
Assumed Knowledge: Completion of research module in NUDI3120.

NUDI4180 Applied Dietetics
Unit Value: 10
Examines the practical application of nutrition and dietetics knowledge in the field of therapeutics, community and public health nutrition. The course aims at developing a holistic and appropriate approach to the dietetic management of individuals and population groups.
Assumed Knowledge: NUDI3120 Compulsory pre-requisite), NUDI3030. Concurrent Assumed Knowledge: NUDI4160, NUDI4060, NUDI4170A, NUDI4170B, NUDI4190

NUDI4190 Applied Dietetics and Research
Unit Value: 10
This course is offered as two strands, Strand A and Strand B.
Strand A:
In this strand students will participate in workshop style teaching sessions and gain skills in applying knowledge of nutrition, diet therapy and health to the nutritional care of individuals and groups.
Assumed Knowledge: NUDI4160, NUDI4060, NUDI4170A, NUDI4170B

Strand B:
This strand involves carrying out a small research project in the area of nutrition and dietetics or critically reviewing an area of research relevant to nutrition and dietetics.
Assumed Knowledge: NUDI3120, NUDI3030
Concurrent NUDI4140, NUDI4160, NUDI4060, NUDI4170A, NUDI4170B

NUDI4200 Applied Dietetics 1
Unit Value: 10
Examines the application of nutrition and dietetics knowledge in the field of community nutrition and dietetics. The course aims at developing a holistic and appropriate approach to the dietetic management of community and population groups.
Assumed Knowledge: NUDI3220 Clinical Nutrition 1, NUDI3230 Clinical Nutrition 2, NUDI3260, NUDI3270 Nutrition, Health and Disease

NUDI4210 Applied Dietetics 2
Unit Value: 10
Applied Dietetics 2 is the study of nutrition and exercise in promotion of health, and prevention and management of disease process for groups with specific nutrient needs. Applied exercise science is integrated with nutrition and dietetics.
Assumed Knowledge: NUDI3220, NUDI3230, NUDI3250, NUDI3270, NUDI3260 Community / Food Industry Practice
Unit Value: 20
Students develop their community and food industry dietetic practice competencies. This course consists of 4-6 weeks of Community Placement and 2-4 weeks of Food Industry Placement to a total of 8 weeks placement. There is no face-to-face teaching on campus but tutorials may be held as necessary.
Assumed Knowledge: NUDI3210, NUDI3250, NUDI3260.

NUDI4240 Clinical Practice
Unit Value: 10
Develops students’ dietetic practice competencies to entry level standard in accordance with the professional requirements of the Dietitians Association of Australia. This consists of 12 weeks of clinical placements, which incorporates 1 week of food service placement within a dietetic department. There is no face-to-face teaching on campus but tutorials may be held as necessary.
Assumed Knowledge: NUDI3120, NUDI3220, NUDI3240, NUDI3260, NUDI3230, NUDI3250, NUDI3270, NUDI4200.

NUDI4250 Public Health Nutrition
Unit Value: 10
Analyses public health strategies and practices at both the National and International levels. It offers a comprehensive perspective on public health issues including both diet and nutrition-related issues, and the sociology of public health. The course will also incorporate the evaluation of public health strategies.
Assumed Knowledge: NUDI3250, NUDI3260, NUDI3270

NUDI4300 Research Project Report
Unit Value: 10
Involves students in either carrying out a small research project in the area of nutrition and dietetics or critically reviewing an area of research relevant to nutrition and dietetics and preparing a report of the results in the form of a Journal article. Skills acquired include data collection and entry, interpersonal communication, analysis and interpretation of data and report writing.
Assumed Knowledge: Completion of research module in NUDI3300.

NURS1010 Foundation Studies in Nursing 1A
Unit Value: 10
Offered at Callaghan Semester 1 and Gosford Semester 2.
Explores the historical development of nursing and introduces its basic theoretical principles within the context of three themes: CARING, CULTURE and CHOICE, and a philosophy of situation improvement. Students begin to develop enquiry and group skills and examine relevant bioethical and legal issues.
Assumed Knowledge: nil

NURS1020 Foundation Studies in Nursing 1B
Unit Value: 10
Offered at Callaghan Semester 2 and Gosford Semester 1.
Provides an initial understanding of research and its application to contemporary nursing practice within the context of the Australian health care system. Political, economic and equity issues which affect nursing practice and the quality of the delivery of nursing care are discussed.
Contact hours: 4 hours per week.
Assumed Knowledge: NURS101

NURS1070 MRT Patient Care
Unit Value: 5
Introduces basic communication skills needed for effective practice within the person-oriented health care professions. Fundamental principles of universal infection control, lifting/transfer techniques and safety in the workplace will be introduced to ensure a safe working environment for both the patient and the care provider.
Contact hours: 2 Hours per week
Assumed Knowledge: n/a

NURS1120 Nursing Practice 1B
Unit Value: 10
Offered at Callaghan Semester 2 and Gosford Semester 1.
Explores situations representing minor health breakdown in various age groups which may be encountered in community health nursing. Students develop understanding of health promotion, the factors which contribute to minor health breakdown processes, their management and associated nursing practice competencies.
Contact hours: 5 hours per week.
Assumed Knowledge: NURS111

NURS1130 Nursing Practice 1A
Unit Value: 10
Introduces the student to the skills and learning style required within the program and sets the foundation for the development of scholarship. The course explores a variety of roles of the registered nurse and introduces the student to frameworks that guide nursing assessment and clinical decision making. The focus of the course is individual health and wellness across the lifespan and the diverse role of nurses in the health care delivery system. There is an emphasis on various concepts of health and the formats used for health assessment. An exploration of developmental psychology and key psychological concepts that guide the individual’s understanding of health provides the framework for understanding some of the differences.
Assumed Knowledge: Nil

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NURS1210 Clinical Practicum 1A
Unit Value: 10
Provides the foundation for the development of a repertoire of clinical skills to be used in subsequent placements in the clinical setting. These include concepts of Occupational Health and Safety, Interpersonal and Professional Relationships, and the principles and clinical skills learned in all subjects. Contact hours: 4 workshops of 5 hours plus directed community experience and clinical placement. Essential skills: Safe clinical practice at NURS211 level and no unsatisfactory clinical reports at preceding levels.

NURS1220 Clinical Practicum 1
Unit Value: 10
Offers opportunities for students to express and apply theoretical principles and clinical skills learned in all subjects. Contact hours: 2 hours per week. Assumed Knowledge: Nil
Essential Skills: Pass in NURS111

NURS2010 Foundation Studies in Nursing 2A
Unit Value: 10
This subject entails an examination of some of the key professional, ethical and legal issues associated with the contemporary practice of nursing in the Australian health care system, and an exploration of the knowledge base required to address these. Emphasis will be placed on developing students' understanding of the process of critical thinking as an approach to the analysis and resolution of the moral problems and legal issues affecting nurses in their clinical practice. Classes will be held at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Contact hours: 3 hours per week. Assumed Knowledge: NURS101, NURS102

NURS2020 Foundation Studies in Nursing 2B
Unit Value: 10
Aims to encourage students to become familiar with the critical analysis of a range of research methods so students can use research to learn about nursing, and develop strategies for their own nursing practice, in line with an evidence-based approach. The subject also explores current public health issues with focus on epidemiology. A range of quantitative and qualitative methods is addressed. Classes will be held at Gosford in Semester 1 and Callaghan in Semester 2. Contact hours: 3 hours per week. Assumed Knowledge: NURS201

NURS2130 Nursing Practice 2A
Unit Value: 10
Develops the student's ability to work effectively in a variety of health care contexts, such as the community, psychiatric / mental health, and medical and surgical nursing. Emphasis is on the importance of early intervention in the management of health promotion at individual and community levels. Offered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Assumed Knowledge: NURS111, NURS112

NURS2140 Nursing Practice 2B
Unit Value: 10
Develops the student's ability to work effectively in a variety of health care contexts, such as the community, psychiatric / mental health, and medical and surgical nursing. Emphasis is on the importance of early intervention in the management of health promotion at individual and community levels. Offered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Assumed Knowledge: NURS111, NURS112, NURS213

NURS2150 Nursing Practice 2C
Unit Value: 10
Develops the student's ability to work effectively in a variety of health care contexts, such as the community, psychiatric / mental health, and medical and surgical nursing. Emphasis is on the importance of early intervention in the management of health promotion at individual and community levels. Offered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Assumed Knowledge: NURS111, NURS112, NURS213

NURS2210 Clinical Practicum 2A
Unit Value: 10
Offered at Callaghan Semester 1 and Gosford Semester 2. Working under supervision, but with an increasing level of independence, students develop their ability to plan, deliver and evaluate care. Opportunities are offered for clinical learning experience in a variety of health care settings, including medical-surgical nursing, mental health/psychiatric nursing, developmental disability and in the community. Contact hours: 2 hours per week plus directed community experience and clinical placement. Assumed Knowledge: NURS111, NURS112
Essential Skills: Safe clinical practice at 100 level

NURS2220 Clinical Practicum 2B
Unit Value: 10
Working under supervision, but with an increasing level of independence, students develop their ability to plan, deliver and evaluate care. Opportunities are offered for clinical learning experience in a variety of health care settings, including medical-surgical nursing, mental health/psychiatric nursing, developmental disability and in the community. Classes will be held at Callaghan in Semester 2 and at Gosford Hospital in Semester 1. Contact hours: 4 workshops of 5 hours plus directed community experience and clinical placement. Assumed Knowledge: NURS221
Essential skills: Safe clinical practice at NURS221 level and no unsatisfactory clinical reports at preceding levels.

NURS3010 Foundation Studies in Nursing 3A
Unit Value: 10
Consolidates students' preparation for entry to clinical practice by developing critical analysis as the basis for informed clinical judgement. Special emphasis is on promoting students' ability to research literature and present a cohesive nursing, legal and ethical approach to identified clinical situations within an appropriate theoretical framework. Classes will be held at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. This subject may be offered in Semester 2 at Callaghan if there is sufficient student demand. Contact hours: 3 hours per week. Assumed Knowledge: NURS202

NURS3020 Foundation Studies in Nursing 3B
Unit Value: 10
Offered at Callaghan Semester 2 and Gosford Semester 1. Offered in Semester 1 at Callaghan only if there is sufficient student demand. Introduces students to the professional, ethical and legal issues associated with the clinical subject NURS322 Clinical Practicum 3B. Contact hours: 3 hours per week. Assumed Knowledge: NURS301

NURS3120 Nursing Practice 3B
Unit Value: 15
Enables students to increase their skills and problem-solving abilities by exploring situations involving health breakdown. Emphasis is on continuity of care across the age continuum and various health care settings including health promotion, illness prevention, rehabilitation, and health education. Classes will be held at Callaghan in Semester 2 and at Gosford Hospital in Semester 1. Offered in Semester 1 at Callaghan only if there is sufficient student demand. Assumed Knowledge: NURS3110

NURS3130 Nursing Practice 3A
Unit Value: 10
Enables students to increase their skills and problem solving abilities by exploring situations involving clients experiencing multiple and complex pathologies and to assist in facilitating problem-solving and enquiry and learning skills relevant to these situations. Offered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Assumed Knowledge: NURS111, NURS112, NURS213, NURS214, NURS215, NURS313

NURS3140 Nursing Practice 3B
Unit Value: 20
Offers opportunities for students to express and apply theoretical principles and clinical skills in the context of experiential learning, under supervision but with increasing independence. Through this, they increase their ability to plan, deliver and evaluate care in a variety of health care settings. Contact hours: 3 hours per week plus directed community service and clinical placement. Assumed Knowledge: NURS222
Essential skills: Safe clinical practice at 200 level and no unsatisfactory clinical reports at preceding levels.

NURS3200 Clinical Practicum 3A
Unit Value: 10
Offered at Callaghan Semester 1 and Gosford Semester 2. Provides the foundation for the development of a repertoire of clinical skills to be used in subsequent placements in the clinical setting. These include concepts of Occupational Health and Safety and Infection Control and their application in clinical practice, health assessment skills and skills in assisting people with hygiene and eating. Parallel to the development of technical skills is interpersonal communication and the beginnings of effective clinical communication will be developed through this course. Offered at Callaghan in Semester 1 and at Gosford Hospital in Semester 2. Assumed Knowledge: Nil

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NURS3220  Clinical Practicum 3B  Unit Value: 10
Offered at Callaghan Semester 2 and Gosford Semester 1.
Offered in Semester 1 at Callaghan only if there is sufficient student demand.
Offers opportunities for students to express and apply theoretical principles and clinical skills in the context of experiential learning, under supervision but with increasing independence. Through this, they increase their ability to plan, deliver and evaluate care in a variety of health care settings.
Contact hours: 3 hours per week plus directed community experience and clinical placement.
Assumed Knowledge: NURS321
Essential Skills: Safe clinical practice at NURS321 and no unresolved or unsatisfactory clinical reports at previous levels.

NURS3510  Enquiry and Learning Skills  Unit Value: 10
Offered in Semester 2 only if there is sufficient student demand.
Enables students to acquire skills in the enquiry and learning process. Focus is on the development of skills needed to locate and utilise learning resources. Topics include preparation of academic communication, effective written and verbal skills, basic computer literacy and an understanding of basic research skills.
Contact hours: 2 hours per week.
Assumed Knowledge: nil

NURS3520  Conceptualising Nursing Practice  Unit Value: 10
Offered only if there is sufficient student demand.
Explores the complex practice of nursing by increasing students’ understanding of the phenomena/concepts that relate to its disciplinary knowledge base, and examines the source of nursing knowledge.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351
NURS3530  Legal and Ethical Issues in Nursing Practice  Unit Value: 10
Offered only if there is sufficient demand.
Explores relevant aspects of ethics and law which may effect nurses. Assumptions about ethics and law will be analysed, with students exploring basic principles and applying them to nursing and health care.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3540  Clinical Studies  Unit Value: 10
Offered only if there sufficient demand.
Clinical Studies NURS354 is a core component of the Bachelor of Nursing (Registered Nurses) designed to provide an arena for the exploration of clinical nursing practice. The aim of this subject is to assist students in augmenting their existing knowledge and skills related to clinical nursing practice. Each student will be given the opportunity to enhance their knowledge and skills within a specific clinical domain by negotiating and pursuing their individual learning needs.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3550  Community Health Nursing  Unit Value: 10
Offered only if there is sufficient student demand.
Explains the developing role of the nurse in promoting and maintaining individual, family and community health. This is linked with the fact that innovations are resulting in shorter hospital stays and consumers remaining in the community instead of being admitted to hospital.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3560  The Nurse as an Educator/Manager  Unit Value: 10
Offered only if there is sufficient demand.
NURS356 The Nurse as an Educator/Manager is a core subject in the Bachelor of Nursing (Registered Nurses) which explores the nursing roles of educator and manager. The subject utilizes a problem based approach to teaching and learning, in which theoretical concepts are linked to practice contexts and the learning process is student centered.
Contemporary Australian management issues are addressed, and there is a focus upon developing practical skills in education. The subject therefore highlights the links between theory, practice and research with respect to the education and management content.
Contact hours: 4 hour tutorials in weeks that alternate with NURS357 Nursing Research
Assumed Knowledge: NURS351

NURS3570  Nursing Research  Unit Value: 10
Offered only if there is sufficient demand.
Examines the role of research in nursing and health care in a focused way. There is a consolidation of previously introduced skills such as problem identification and data collection. The analyses and design of projects appropriate to introductory research activities are examined.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3580  Professional Elective Theories and Concepts of Men  Unit Value: 10
Offered only if there is sufficient student demand.
Introduces students to mental health nursing, with examination of introductory theoretical and applied issues. Topics such as stress, coping and anxiety are used as exemplars of the issues under consideration.
Contact hours: 2 Hours per week.
Assumed Knowledge: NURS351

NURS3590  Professional Elective Introduction to Psychiatric Nursing  Unit Value: 10
Offered only if there is sufficient demand.
Extends students’ knowledge about serious mental illness, and skills in symptom management through effective nurses intervention. A variety of disorders associated with serious mental illness are used as exemplars of the issues under consideration.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3600  Professional Elective Pathophysiological Concepts  Unit Value: 10
Not offered at present.
Provides understanding of pathophysiology that underpins critical decision making in all areas of nursing. Provides the foundation for an understanding of related pharmacological management in situations of health breakdown.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3610  Nursing Technology and Change  Unit Value: 10
Explores current and future potential developments in relation to the use of technology in nursing and health care. Emphasis is placed on the nursing practice and patient care implications of the use of such new technologies, particularly in relation to their ethical implications. The concept of change will be addressed in relation to the ways that society, the nursing profession, individual practitioners and health care consumers are adapting to rapid changes in the management and delivery of patient care.
Contact hours: 2 hours per week or equivalent on Motel.
Assumed Knowledge: NURS351

NURS3620  Professional Elective Primary Health Care Nursing  Unit Value: 10
Not offered at present.
Further enhances the student’s knowledge and understanding of role of the nurse in primary health settings in promoting and maintaining individual and family health. Develops critical thinking abilities to analyse, synthesise and evaluate contemporary issues in primary health settings.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3630  Professional Elective Health Promotion  Unit Value: 10
Not Offered at Present.
Examines the development of the health promotion movement and analyses the various approaches in health promotion at international, national, state and local level.
Contact hours: 2 hours per week.
Assumed Knowledge: NURS351

NURS3640  Professional Elective Transcultural Health Studies  Unit Value: 10
Not offered at present.
Enables students to respond therapeutically to clients who are from diverse cultural backgrounds including Aborigines. Addresses key concepts and issues which are common to all people, irrespective of their ethnicity.
Contact hours: 2 hours per week
Assumed Knowledge: NURS351
NURS3650 Studies in Specialised Practice
Unit Value: 10

Will allow students to undertake studies in a specific area of nursing practice to review and evaluate changes or innovation in nursing. Focus of studies will vary according to students' specific needs. For example, students studying an area of practice new to them will study basic knowledge and skills of the area. Students experienced in the area of practice may study topics such as roles of Nurse Practitioner, Clinical Nurse Consultant, or Clinical Nurse Specialist, or practise-development issues such as clinical supervision and nursing development units relevant to the chosen area of practice.

Contact: 3 Hours per week.

Assumed Knowledge: Knowledge required for registration as registered nurse in New South Wales.

NURS4020 Design and Method for Qualitative Research in Nurses
Unit Value: 10

Examines professional, epistemological, and ethical issues related to qualitative research in nursing and other health sciences. It explores a range of qualitative research approaches in terms of their underlying assumptions, theoretical orientations, methods and procedures.

Contact hours: 2 hours per week.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree in health or social sciences, with evidence of high academic achievement.

NURS4030 Introductory Epidemiology and Biostatistics
Unit Value: 10

Aims to introduce students to common epidemiology terms, vital statistics, risk, cause and bias. The student will develop skills in the description and interpretation of relationships and associations in given sets of data and the ability to critically appraise studies in health literature. The student further develops an understanding of the methods of data collection and analysis as well as the interpretation of statistical information as presented in scientific publications.

Contact: 2 hours per week.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree in health or social sciences, with evidence of high academic achievement.

NURS4120 Knowledge and Theory Development in Nursing A
Unit Value: 10

Focuses on the origins and development of nursing knowledge and the historical influences of broader philosophical and scientific inquiries in nursing.

Contact hours: 2 hours per week.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement.

NURS4130 Knowledge and Theory Development in Nursing B
Unit Value: 10

Focuses on theoretical thinking in nursing. Nursing knowledge, nursing ideas and theories are examined and their origins and current impact on practice are explored. Current socio-political, ethical and professional concerns arising from nursing practice and health service delivery are examined.

Contact hours: 2 hours per week.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement.

NURS4920 Honours Thesis Development
Unit Value: 20

Provides students with the opportunity to become actively involved in a project, with academic supervision, in an area of interest. The project may involve the design, implementation and evaluation of a brief intervention, an analytical study, a descriptive qualitative study, or an extended literature review or meta-analysis. It may involve primary data collection or secondary analysis of data. The final submission should reflect the appropriate academic style and structure of an honours thesis.

Contact hours: by supervision.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.

NURS4930 Honours Thesis Completion
Unit Value: 20

Provides students with the opportunity to become actively involved in a project, with academic supervision, in an area of interest. The project may involve the design, implementation and evaluation of a brief intervention, a descriptive qualitative study, or an extended literature review or meta-analysis. It may involve primary data collection or secondary analysis of data. The final submission should reflect the appropriate academic style and structure of an honours thesis.

Contact hours: by supervision.

Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement and demonstrated potential to carry out, under supervision, a significant research project.

OCC1000A Occupational Science 1 (Part A)
Unit Value: 5

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Explores: theories concerning the occupational nature of human beings; biological and socio-cultural bases of human occupation; concepts of health, well-being and quality of life as they apply to individuals and groups; propositions regarding the relationships between occupational engagement and health and wellbeing; data on the health status of Australians; basic qualitative research concepts.

Assumed Knowledge: N/A - is a compulsory first year course.

OCC1000B Occupational Science 1 (Part B)
Unit Value: 5

This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Explores: theories concerning the occupational nature of human beings; biological and socio-cultural bases of human occupation; concepts of health, well-being and quality of life as they apply to individuals and groups; propositions regarding the relationships between occupational engagement and health and wellbeing; data on the health status of Australians; basic qualitative research concepts.

Assumed Knowledge: N/A - is a compulsory first year course.

OCC1010A Occupational Therapy Practice 1 (Part A)
Unit Value: 5

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Aims to provide the student with a range of foundation skills that are essential for the development of a competent practitioner. Consequently, this course introduces students to a number of aspects of the Occupational Therapy profession and its practice.

In Semester One, students are introduced to the history and philosophy of Occupational Therapy. The basis of clinical practice in Occupational Therapy is the effective therapeutic use of activity. Students are given considerable grounding in Activity Analysis and participate in Therapeutic Activities Practice to reinforce the theory provided in the fixed resource sessions. Students then examine the practice of Occupational Therapy in the Human Lifespan phase of Childhood. This unit encompasses an introduction to, and application of, both the theory and process of Occupational Therapy practice. Students are also prepared for a complete 2 weeks of full time fieldwork placement at the end of Semester 1.

In Semester Two, students continue to apply the theory and process of Occupational Therapy practice in the Human Lifespan phases of Adulthood and Old Age. As with the Childhood unit, material covered includes an introduction to the practical skills involved in Assessment and Treatment.

Instructional Strategies - Students are introduced to Occupational Therapy theory and practice through fixed resource sessions, seminar discussions, clinical observation and practical experience in the use of activities. Students use a problem based learning approach in aspects of the curriculum. Case studies are an important learning tool.

Assumed Knowledge: Nil

OCC1010B Occupational Therapy Practice 1 (Part B)
Unit Value: 5

This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Aims to provide the course with a range of foundation skills that are essential for the development of a competent practitioner. Consequently, this subject introduces students to a number of aspects of the Occupational Therapy profession and its practice.

In Semester One, students are introduced to the history and philosophy of Occupational Therapy. The basis of clinical practice in Occupational Therapy is the effective therapeutic use of activity. Students are given considerable grounding in Activity Analysis and participate in Therapeutic Activities Practice to reinforce the theory provided in the fixed resource sessions. Students then examine the practice of Occupational Therapy in the Human Lifespan phase of Childhood. This unit encompasses an introduction to, and application of, both the theory and process of Occupational Therapy practice. Students are also prepared for a complete 2 weeks of full time fieldwork placement at the end of Semester 1.

In Semester Two, students continue to apply the theory and process of Occupational Therapy practice in the Human Lifespan phases of Adulthood and Old Age. As with the Childhood unit, material covered includes an introduction to the practical skills involved in Assessment and Treatment.

Instructional Strategies - Students are introduced to Occupational Therapy theory and practice through fixed resource sessions, seminar discussions, clinical observation and practical experience in the use of activities. Students use a problem based learning approach in aspects of the curriculum. Case studies are an important learning tool.

Assumed Knowledge: Nil
The course applies the problem solving process in occupational analysis, treatment planning, and community level. Opportunities for skill development in such areas as: communication, informatics, critical analysis and professional writing.

**Assumed Knowledge:** Nil

## OCCT2000A Occupational Science 2 (Part A)

This course is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Enables students to apply occupational science principles and concepts acquired whilst completing OCCT1000A & OCCT1000B, to better understand people with ill-health and occupational dysfunction. The international relevance of occupational science is viewed in relation to recent developments in the classification of dysfunction by the World Health Organisation. Assessment skills relevant to professional practice will be examined to see how information gained relates to the individual ‘occupational being’. Students will expand their inquiry skills in locating and interpreting data relevant to concerns with human occupation at both an individual and community level.

**Assumed Knowledge:** Satisfactory completion of the first year of the program - this includes Occupational Science 1.

## OCCT2000B Occupational Science 2 (Part B)

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Enables students to apply occupational science principles and concepts acquired whilst completing OCCT1000A & OCCT1000B, to better understand people with ill-health and occupational dysfunction. The international relevance of occupational science is viewed in relation to recent developments in the classification of dysfunction by the World Health Organisation. Assessment skills relevant to professional practice will be examined to see how information gained relates to the individual ‘occupational being’. Students will expand their inquiry skills in locating and interpreting data relevant to concerns with human occupation at both an individual and community level.

**Assumed Knowledge:** Satisfactory completion of the first year of the program - this includes Occupational Science 1.

## OCCT2010A Occupational Therapy Practice 2 (Part A)

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Aims to consolidate the occupational analysis skills acquired in Occupational Therapy Practice 1. It expands on the theory and process of occupational therapy practice by addressing occupational dysfunction experienced during childhood, adolescence, adulthood and late adulthood. More specifically, the course focus is on clients whose primary diagnosis is a physical dysfunction, and the learning material relates to communication skills, methods of assessment, treatment interventions, report writing and evaluation. Added to the theory of occupational therapy practice is the opportunity to experience specific treatments and to experiment with equipment and techniques in a supervised environment.

There are four blocks of theory during the year, each with a focus on an area of Occupational Therapy practice: General Physical, Paediatrics, Neurology, and Occupational Health. The content of each theory block relates to a focus area. The fieldwork following the theory block is also related to the focus area studied.

The course applies the problem solving process in occupational analysis and treatment planning. The process allows students to experience group learning and group process. Case studies are an important tool and are used to highlight major assessment and treatment areas in which therapists might be involved.

The course incorporates an interaction process with members of the community (client tutors) who have personal experience of the clinical conditions being discussed and are able to reflect on problems and treatment issues. This gives students the opportunity to practice their interview skills and get realistic feedback on the clinical and life experiences of people with a disability.

**Assumed Knowledge:** Occupational Therapy Practice 1, Professional Practice 1

## OCCT2010B Occupational Therapy Practice 2 (Part B)

This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Aims to consolidate the occupational analysis skills acquired in Occupational Therapy Practice 1. It expands on the theory and process of occupational therapy practice by addressing occupational dysfunction experienced during childhood, adolescence, adulthood and late adulthood. More specifically, the course focus is on clients whose primary diagnosis is a physical dysfunction, and the learning material relates to communication skills, methods of assessment, treatment interventions, report writing and evaluation. Added to the theory of occupational therapy practice is the opportunity to experience specific treatments and to experiment with equipment and techniques in a supervised environment.

There are four blocks of theory during the year, each with a focus on an area of Occupational Therapy practice: General Physical, Paediatrics, Neurology, and Occupational Health. The content of each theory block relates to a focus area. The fieldwork following the theory block is also related to the focus area studied.

The course applies the problem solving process in occupational analysis and treatment planning. The process allows students to experience group learning and group process. Case studies are an important tool and are used to highlight major assessment and treatment areas in which therapists might be involved.

The course incorporates an interaction process with members of the community (client tutors) who have personal experience of the clinical conditions being discussed and are able to reflect on problems and treatment issues. This gives students the opportunity to practice their interview skills and get realistic feedback on the clinical and life experiences of people with a disability.

**Assumed Knowledge:** Occupational Therapy Practice 1, Professional Practice 1
This course builds on Occupational Therapy Theory and Practice 4A (OCCT4100) to enable students to consolidate their knowledge and skills and broaden their experience in the practice of occupational therapy. Specific areas of specialist practice are studied in depth. Building on the proposal developed in OCCT4100, students undertake a major project that focuses on an area of occupational therapy practice. This project includes a thorough critical review of relevant literature, and an outcome that contributes to occupational therapy practice in that area. In addition, this course enables students to explore in depth a range of issues relevant to occupational science and occupational therapy practice using a socio-culturally sensitive framework derived from occupational science principles. Through the use of case scenarios, students explore both nationally and internationally significant issues of health and well being particularly in relation to minority groups. This analysis requires consideration of the influences of political, business, technological and other social systems on occupation and health.

Assumed Knowledge: Satisfactory completion of all courses in the previous 3 years of the Bachelor of Health Science (Occupational Therapy).

Unit Value: 40

OCCT4200 OCCUPATIONAL THERAPY THEORY AND PRACTICE 4B

This course is Part A of a two part course to broaden students' knowledge/skill base related to occupational therapy practice. Students are offered a choice of an elective study module from among a number of speciality areas of occupational therapy practice. The study modules on offer vary from year to year but include such topics as home modifications, occupational health, paediatrics and creative/expressive arts in therapy.

Assumed Knowledge: Years 1 and 2 studies in the Bachelor of Health Science (Occupational Therapy).

Unit Value: 10

OCCT3020 OCCUPATIONAL THERAPY Specialty Topics 3

This subject broadens students' knowledge/skill base related to specialist areas of occupational therapy practice. Students are offered a choice of two elective study modules from among a number of speciality areas of occupational therapy practice. The study modules on offer vary from year to year but include such topics as home modifications, occupational health, paediatrics and creative/expressive arts in therapy. The two study modules combined, undertaken by each student, will require around 35 hours of class contact in total over the semester.

Assumed Knowledge: Years 1 and 2 studies in the Bachelor of Health Science (Occupational Therapy)

Unit Value: 10

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OFC131C Australian History 1
Unit Value: 10
Introduces students to the study of Australian history at the tertiary level. Topics covered include race and gender relations, convict society, and the growth of self-government. Emphasis is placed on academic skills, such as note taking, research, analysis and essay writing, which are widely applicable to the tertiary study of history and to humanities subjects in general.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC132 Australian Economic History 1
Unit Value: 10
Introduces the student to the study of Australian Economic History at the tertiary level. Topics covered include: Trade Routes of the Aboriginal Economy; the 19th Century; Convict Society; the Gold Rush Era; Land Reform; Pastoral Industry; and Federation. The course is designed to enhance and develop academic skills. Emphasis is placed on note taking, research (library and internet), and analysis essay writing skills applicable to the tertiary study of economics, commerce, history, education and humanities subjects.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC134 Core Mathematics 1
Unit Value: 10
Core Mathematics 1 is a foundation mathematics subject, which will equip students with enough basic mathematics for the Social Sciences. It is not a mathematics prerequisite for degrees involving a mathematics major. It supports degrees where a minor degree of mathematical aptitude is required. The main topics are numeracy and algebra.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC134C Core Mathematics 1
Unit Value: 10
Core Mathematics 1 is a foundation mathematics subject which will equip students with enough basic mathematics for the Social Sciences. It is not a mathematics prerequisite for degrees involving a mathematics major. It supports degrees where a minor degree of mathematical aptitude is required. The main topics are numeracy and algebra.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC135 Basic Quantitative Methodology 1
Unit Value: 10
Provides students with an introduction to the broad based mathematical and computing skills required for Economics, Commerce and other studies. It contains the following elements: arithmetic and algebraic principles, introduction to differential calculus and its applications, and the basics of computing with a focus on spreadsheets.
Contact hours: 2 lecture hours and 1 tutorial hour per week
Assumed Knowledge: School Certificate Mathematics or equivalent

OFC135C Basic Quantitative Methodology 1
Unit Value: 10
OFC135C Basic Quantitative Methodology 1 provides students with an introduction to the broad based mathematical and computing skills required for Economics, Commerce and other studies. It contains the following elements: arithmetic and algebraic principles, introduction to differential calculus and its applications, and the basics of computing with a focus on spreadsheets.
Contact: One two hour lecture and a one hour tutorial per week
Assumed Knowledge: School Certificate Mathematics or equivalent

OFC137 Foundation Concepts for Chemistry & Life Sciences
Unit Value: 10
Designed to introduce basic concepts in the physical and life sciences. Topics include an introduction to the study of the basic chemistry required for further studies in the physical and life sciences, including the concepts of pure substances and mixtures; atoms, molecules and ions; simple atomic models; the periodic table; chemical compounds and formulae and simple molecules of biological importance; bonding; basic shapes of molecules; chemical amounts and the mole concept; solution studies; acids; and simple chemical reactions. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental and the Chemical Sciences.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC137C Foundation Concepts for Chemistry & Life Sciences
Unit Value: 10
Designed to introduce basic concepts in the physical and life sciences. Topics include an introduction to the study of the basic chemistry required for further studies in the physical and life sciences: the concepts of pure substances and mixtures; atoms, molecules and ions; simple atomic models; the periodic table; chemical compounds and formulae and simple molecules of biological importance; bonding, basic shapes of molecules; chemical amounts and the mole concept; solution studies; acids; and simple chemical reactions. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental, and the Chemical Sciences.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC138 Classical Studies 1
Unit Value: 10
Introduces key aspects of the worlds of Ancient Greece in the context of Mediterranean civilisation. Investigation of these fascinating civilisations will include the following topics:
- Society and culture in Greece.
- Greek families, households and values.
- Religions, values and beliefs in Ancient Greece.
- City life in Athens and Greece.
- Plague and disease in Athens.
- War, warfare, generals and politics in Greece.

The subject employs historical, archaeological and other written and literary forms of evidence to shed light upon Greek society.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC138C Classical Studies 1
Unit Value: 10
Introduces students to the history, culture and peoples of Ancient Greece, covering the period 750 BC to 400 BC. Topics include the rise of the city-state, Athens, Sparta, the Persian Wars and the Greek Gods. Emphasis is placed on the skills needed to succeed at the University level, such as the ability to research, take notes, analyse and write essays.
Contact: Two hours of lectures per week
Assumed Knowledge: Nil

OFC141 Earth Science 1
Unit Value: 10
OFC141 Earth Science 1 provides a dynamic introduction to Earth Science systems. It introduces the disciplines of Geology, Physical Geography and Environmental Science and affords a better understanding of the earth and its processes. This subject provides a sound basis on which to proceed to undergraduate studies in the Earth and Environmental Sciences and provides a body of knowledge and skills, complete in itself, for those planning to continue their study in other areas of Science, Technology and Education.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC141C Earth Science 1
Unit Value: 10
OFC141C Earth Science 1 provides a dynamic introduction to Earth Science systems. It introduces the disciplines of Geology, Physical Geography and Environmental Science and affords a better understanding of the earth and its processes. This subject provides a sound basis on which to proceed to undergraduate studies in the Earth and Environmental Sciences and provides a body of knowledge and skills, complete in itself, for those planning to continue their study in other areas of Science, Technology and Education.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC144 English Literature & Film 1
Unit Value: 10
Explores different representations of Australian identities in a range of literary and film texts. Key topics include Indigenous cultures, migrations, and the relationships between identities, language and Australian landscapes.
Contact hours: 2 lecture hours per week
Assumed Knowledge: Nil

OFC144C English Literature & Film 1
Unit Value: 10
OFC144C English Literature and Film 1 explores different representations of Australian identities in a range of literary and film texts. Key topics include Indigenous cultures, migrations, and the relationships between identities, language and Australian landscapes. Classes will be held at the Central Coast campus.
Contact hours: 2 lecture hours per week
Assumed Knowledge: Nil
OFC147  Studies in Law 1
Unit Value: 10
Studies in Law 1 is an introduction to the Australian legal system. It explores the foundation of our legal heritage and specific areas of law. Topics include:
1. what is law?
2. sources of law
3. Indigenous people and Native Title
4. constitutional law and the structure of Australian government
5. court hierarchies and the doctrine of precedent
6. common law and how statute law is made
7. the legal profession
8. Legal Aid and alternative dispute resolution

Assumed Knowledge: Nil

OFC149  Linguistics 1
Unit Value: 10
An introduction to the study of language including theoretical and applied aspects. It includes language learning; language and communication; sociolinguistics; and language concepts, including basic grammatical terms.

Contact: One 2 hour lecture per week.
Assumed Knowledge: Nil

OFC150  Philosophy 1
Unit Value: 10
Introduces students to philosophy through the study of two central areas of philosophical interest: epistemology and critical reasoning. A basic level of knowledge of core philosophical concepts and skills is provided. Emphasis is placed on the application of a wider set of necessary skills for university study, including academic reading, writing and discussion.

Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC152  Physics 1
Unit Value: 10
Prepares students for the commencement of undergraduate study which requires a sound knowledge of fundamental principles of physics. The depth and extent of the course is similar to 2 Unit HSC Physics. Broadly, it covers the basic concepts of mechanics, circular motion, fluid mechanics and fluid dynamics.

Contact: Two lecture hours and one tutorial hour per week
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate

OFC152C Physics 1
Unit Value: 10
Prepares students for the commencement of undergraduate study which requires a sound knowledge of fundamental principles of physics. The depth and extent of the course is similar to 2 Unit HSC Physics. Broadly, it covers the basic concepts of mechanics, circular motion, fluid mechanics and fluid dynamics.

Contact: Two lecture hours and one tutorial hour per week
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate

OFC153  Science Mathematics 1
Unit Value: 10
OFC153 Science Mathematics 1 prepares students for the commencement of undergraduate study and requires a sound knowledge of mathematical principles. The depth and content of the course is similar to 2 Unit HSC Mathematics. The subject covers number systems, basic algebra, simultaneous and quadratic equations, functions and graphs, sequences and series.

Assumed Knowledge: It is assumed that students are proficient with algebra at Year 10 level.

OFC154  Social Enquiry 1
Unit Value: 10
This subject introduces the discipline of Sociology, which represents the study of people and cultures in industrial societies. The subject provides an understanding of sociological theories, which are the tools for analysis of social structures and interaction. It will examine the concept of social inequality and class as well as explore the historical changes in social, political and economic arrangements of cultural groups. In addition, the sociology of family and gender identity will be studied as examples of the sociological imagination. An introduction to sociological research methods allows students to gain insight into the complex dynamics of sociological analysis. Sociological thought provides a different perspective on social life and culture. This viewpoint challenges the taken-for-granted, or commonsense view of the world.

Assumed Knowledge: Nil

OFC156  Visual Art 1
Unit Value: 10
Introduces a wide variety of approaches leading to a substantial and varied portfolio of work suitable to assist admission to art and design studies at university level. Studio space restricts the class size. Class work includes: exercises and discussions to extend creative and personal expression; the development of observational skills through life drawing; design, colour and compositional theory. Drawing, painting and sculpture are reinforced by independent studio and home projects. Visits to art galleries provide insights into current art practice. An understanding of the language of art criticism and research methods will be provided.

Contact: Three hours per week, studio work.
Assumed Knowledge: Nil

OFC156C Visual Art 1
Unit Value: 10
Introduces a wide variety of approaches leading to a substantial and varied portfolio of work, suitable to assist admission to art and design studies at university level. Studio space restricts the class size. Class work includes: exercises and discussions to extend creative and personal expression; the development of observational skills through life drawing; design, colour, and compositional theory. Drawing, painting, and sculpture are reinforced by independent studies and home projects. Visits to art galleries provide insights into current art practice. An understanding of the language of art criticism and research methods will be provided.

Contact: Three hours per week, studio work.
Assumed Knowledge: Nil

OFC158  Aboriginal and Torres Strait Islander Studies 1
Unit Value: 10
OFC158 Aboriginal and Torres Strait Islander Studies 1 assists in the development of a comprehensive knowledge of Aboriginal and Torres Strait Islander cultures and histories through Australia’s development. It covers the traditional context through to the end of the 20th Century.

Contact: Problem-based learning of 2 hours per week
Assumed Knowledge: Nil

OFC231  Australian History 2
Unit Value: 10
Introduces students to the study of twentieth century Australian history at the tertiary level. Topics covered include twentieth century race and gender relations, war and society and postwar developments. Emphasis is placed on academic skills, such as note taking, research, analysis and essay writing, which are widely applicable to the tertiary study of history and to humanities subjects in general.

Contact: One 2 hour lecture per week.
Assumed Knowledge: Nil

OFC231C Australian History 2
Unit Value: 10
Introduces students to the study of twentieth century Australian history at the tertiary level. Topics covered include race and gender relations, war and society, and postwar developments. Emphasis is placed on academic skills, such as note taking, research, analysis and essay writing, which are widely applicable to the tertiary study of history and to humanities subjects in general.

Contact: One 2 hour lecture per week.
Assumed Knowledge: Nil

OFC232  Australian Economic History 2
Unit Value: 10
Introduces the student to the study of Australian Economic History at the tertiary level. Covers the major changes that took place in the twentieth century economy and its effects on society; government’s changing role in society due to globalisation during the last ten years to the present day; and the changing role of work. Emphasis is placed on note taking, research, library and internet and analysis essay writing skills applicable to the tertiary study of economics, commerce, history, education and humanities subjects.

Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC234  Core Mathematics 2
Unit Value: 10
Core Mathematics 2 is a foundation mathematics subject, which will equip students with the basic mathematics for the Social Sciences. It is a prerequisite for degrees involving a mathematics major. It supports degrees where a minor degree of mathematical aptitude is required. The main topics are trigonometry and statistics.

Contact: One 2 hour lecture per week
Assumed Knowledge: Topics covered in OFC134 Core Mathematics 1

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OFC234C Core Mathematics 2
Unit Value: 10
Core Mathematics 2 is a foundation mathematics subject, which will equip students with enough mathematical skills for the Social Sciences. It is not a mathematics prerequisite for degrees involving a mathematics major. It supports degrees where a minor degree of mathematical aptitude is required. The main topics are trigonometry and statistics.
Contact: One 2 hour lecture per week
Assumed Knowledge: Topics covered in OFC134C Core Mathematics 1

OFC235 Basic Quantitative Methodology 2
Unit Value: 10
OFC235 Basic Quantitative Methodology 2 provides students with an introduction to the broad based mathematical skills required for Economics, Commerce and other studies which are not included in OFC135 Basic Quantitative Methodology 1. It contains the following elements: essential statistics, basic probability and an introduction to integral calculus and its applications. Contact: One two hour lecture and a one hour tutorial per week.
Assumed Knowledge: School Certificate Mathematics or equivalent

OFC235C Basic Quantitative Methodology 2
Unit Value: 10
OFC235C Basic Quantitative Methodology 2 provides students with an introduction to the broad based mathematical skills required for Economics, Commerce and other studies which are not included in OFC135C Basic Quantitative Methodology 1. It contains the following elements: essential statistics, basic probability and an introduction to integral calculus and its applications. Contact: One two hour lecture and a one hour tutorial per week.
Assumed Knowledge: School Certificate Mathematics or equivalent

OFC237 Chemistry
Unit Value: 10
OFC237 Chemistry aims to increase knowledge and awareness of the significant role that chemistry plays in everyday life. It strikes a balance between theory and real life examples. Topics include analytical chemistry; the gas laws; chemical equilibria; thermodynamics; oxidation and reduction; electrochemistry; and organic chemistry. It equips students students with problem solving, critical thinking and analytical skills and prepares them for undergraduate study at the University level. Students will be able to choose to study some of these concepts in the context of the area of chemistry which they wish to undertake in their undergraduate studies.
Assumed Knowledge: Nil

OFC237C Chemistry
Unit Value: 10
OFC237C Chemistry aims to increase knowledge and awareness of the significant role that chemistry plays in everyday life. It strikes a balance between theory and real life examples. Topics include analytical chemistry; the gas laws; chemical equilibria; thermodynamics; oxidation and reduction; electrochemistry; and organic chemistry. It equips students students with problem solving, critical thinking and analytical skills and prepares them for undergraduate study at the University level. Students will be able to choose to study some of these concepts in the context of the area of chemistry which they wish to undertake in their undergraduate studies.
Assumed Knowledge: Nil

OFC238 Classical Studies 2
Unit Value: 10
Introduces key aspects of the world of Rome in the context of Mediterranean civilisation. The following topics are included:
* Society and culture in Rome.
* Slaves and slavery.
* City life in Rome.
* Archaeological approaches and the Greco-Roman Mediterranean.

The subject employs historical, archaeological and other written and literary forms of evidence to shed light upon Greco-Roman societies in the context of the building of the Roman and Republican Empire.

Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC238C Classical Studies 2
Unit Value: 10
Introduces students to the history, culture and peoples of ancient Rome, covering the period 753 BC to 44 BC. Topics include the foundation of Rome, the establishment of the Roman Republic, the Punic Wars, the Gracchan Crisis, the era of Marius and Sulla, and the careers of Pompey, Crassus and Caesar. Emphasis is placed on the skills needed to succeed at University level, such as the ability to research, take notes, analyse and write essays.
Contact: Two hours of lectures per week
Assumed Knowledge: Nil

OFC241 Earth Science 2
Unit Value: 10
OFC241 Earth Science 2 provides a dynamic introduction to Earth Science applications. It applies the skills and knowledge of Geology, Physical Geography and Environmental Science to the solution of problems involving the earth and its processes.

No prior knowledge is assumed. This subject provides a sound basis on which to proceed to undergraduate studies in the Earth and Environmental Sciences and provides a body of knowledge and skills, complete in itself, for those planning to continue their study in other areas of Science, Technology and Education.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC241C Earth Science 2
Unit Value: 10
OFC241C Earth Science 2 provides a dynamic introduction to Earth Science applications. It applies the skills and knowledge of Geology, Physical Geography and Environmental Science to the solution of problems involving the earth and its processes. This subject provides a sound basis on which to proceed to undergraduate studies in the Earth and Environmental Sciences and provides a body of knowledge and skills, complete in itself, for those planning to continue their study in other areas of Science, Technology and Education.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: Nil

OFC244 English Literature & Film 2
Unit Value: 10
OFC244 English Literature and Film 2 examines the role, point of view and responsibility of storytellers in a range of literary genres and in film. There will be particular emphasis on the art and language of narratives as they draw upon individual and collective memory, myth and the imagination in the periods and cultures from which they come.
Contact: One two hour lecture per week
Assumed Knowledge: Nil

OFC244C English Literature & Film 2
Unit Value: 10
OFC244C English Literature and Film 2 examines the role, point of view and responsibility of storytellers in a range of literary genres and in film. There will be particular emphasis on the art and language of narratives as they draw upon individual and collective memory, myth and the imagination in the periods and cultures from which they come.
Contact: Two lecture hours per week
Assumed Knowledge: Nil

OFC247 Studies in Law 2
Unit Value: 10
Studies in Law 2 builds on the foundation laid in OFC147 Studies in Law 1 - “The Australian Legal System”. Students will study specific areas of law, which are both interesting and topical. The key topics include:
1. Criminal Law
2. Family Law
3. Negligence
4. Contract
Assumed Knowledge: OFC147 Studies in Law 1 or other introductory legal studies, would be highly preferred.

OFC249 Linguistics 2
Unit Value: 10
Introduces the study of language including theoretical and applied aspects. It includes semantics and language in Australia; sociolinguistics; an introduction to phonetics, phonology and morphology.
Contact: One 2 hour lecture per week.
Assumed Knowledge: Nil

OFC250 Philosophy 2
Unit Value: 10
Introduces students to philosophy through the study of two central areas of philosophical interest: metaphysics and ethics. A basic level of knowledge of core philosophical concepts and skills is provided. Emphasis is placed on the application of a wider set of necessary skills for university study, including academic reading, writing and discussion.
Contact: One 2 hour lecture per week
Assumed Knowledge: Nil

OFC250C Philosophy 2
Unit Value: 10
Prepares students for the commencement of undergraduate study which requires a sound knowledge of the fundamental principles of physics. The depth and extent of the course is similar to 2 Unit HSC Physics. Broadly, it covers the basic concepts of wave mechanics, optics, electromagnetic and some modern physics.
Contact: Two lecture hours and one tutorial hour per week
Assumed Knowledge: Mathematical techniques equivalent to Year 10 School Certificate
OFC253 Science Mathematics 2
Unit Value: 10
OFC253 Science Mathematics 2 prepares students for the commencement of undergraduate study and requires a sound knowledge of mathematical principles. The depth and content of the course is similar to 3 Unit HSC Mathematics. The subject covers trigonometry and differential and integral calculus with applications.
Contact: One two hour lecture and a one hour tutorial per week
Assumed Knowledge: It is assumed that students are proficient with algebra at a level comparable to Science Mathematics 1.

OFC254 Social Enquiry 2
Unit Value: 10
This subject provides an introduction to the discipline of Sociology, which represents the study of people and cultures in industrial societies. It provides an understanding of social structures and interaction; and investigates theories into the sociology of education, deviance and sub-cultures. Application of sociological theory and research methods provides students with insights into the complex dynamics of social interactions in everyday life.
Contact: One two hour lecture per week
Assumed Knowledge: Nil

OFC256 Visual Art 2
Unit Value: 10
Introduces a wide variety of approaches leading to a substantial and varied portfolio of work suitable to assist admission to art and design studies at university level. Studio space restricts class size. Class work includes: exercises and discussions to extend creative and personal expression; the development of observational skills through life drawing; printmaking and photography are reinforced by independent studies and home projects; thematic developments, intermedia experiments, exhibition, preparation and presentation; visits to art galleries provide insights into current art practice. An understanding of the language of art criticism and research methods will be provided.
Contact: Three hours per week, studio work
Assumed Knowledge: Nil

OFC256C Visual Art 2
Unit Value: 10
Introduces a wide variety of approaches leading to a substantial and varied portfolio of work suitable to assist admission to art and design studies at university level. Studio space restricts class size. Class work includes: exercises and discussions to extend creative and personal expression; the development of observational skills through life drawing; printmaking and photography are reinforced by independent studies and home projects; thematic developments, intermedia experiments, exhibition, preparation and presentation; visits to art galleries provide insights into current art practice. An understanding of the language of art criticism and research methods will be provided.
Assumed Knowledge: Nil

OFC258 Aboriginal and Torres Strait Islander Studies 2
Unit Value: 10
OFC258 Aboriginal and Torres Strait Islander Studies 2 assists in the development of a comprehensive knowledge and analysis of current Aboriginal and Torres Strait Islander cultures and issues.
Contact: Problem-based learning of 2 hours per week
Assumed Knowledge: Nil

OFC259 Introduction to the Life Sciences
Unit Value: 10
This subject builds on OFC137 Foundation Concepts for Chemistry and the Life Sciences and introduces concepts in the Life Sciences. Topics include the basic concepts of cell biology, anatomy and physiology: the nature and practice of biology, applications and uses of biology, the components of the cell, osmosis, homeostasis, body systems, tissues and organs, body functions and important biochemical reactions. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental and Biological Sciences.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: OFC137 Foundation Concepts for Chemistry and the Life Sciences

OFC259C Introduction to the Life Sciences
Unit Value: 10
OFC259C Introduction to the Life Sciences builds on OFC137C Foundation Concepts for Chemistry and the Life Sciences. Topics include the basic concepts of cell biology, anatomy and physiology: the nature and practice of biology, applications and uses of biology, the components of the cell, osmosis, homeostasis, body systems, tissues and organs, body functions and important biochemical reactions. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental and Biological Sciences.
Contact: Two hours of lectures and a one hour tutorial per week
Assumed Knowledge: OFC137C Foundation Concepts for Chemistry and the Life Sciences

OFC301 Australian Economic History
Unit Value: 20
In a series of lectures, seminars, audio visual and overhead presentations, this subject introduces the student to the study of Australian Economic History at the tertiary level. The subject is designed to enhance and develop academic skills. Emphasis is placed on note taking, research (in library and Internet), analysis and essay writing skills as they apply to the tertiary study of economics, commerce, history, education and the humanities subjects.
Contact: 5 hours of lectures per week.
Assumed Knowledge: Nil

OFC302 Basic Quantitative Methodology
Unit Value: 20
OFC302 Basic Quantitative Methodology (BQM) provides students with the broad based mathematical, statistical and computing skills required for Economics, Commerce and other studies. It contains the following elements: arithmetic and algebraic principles, introduction to calculus, statistics and probability and the basics of computing with a focus on spreadsheets.
Contact: Five hours of lectures and a one hour tutorial per week.
Assumed Knowledge: Nil

OFC303 Chemistry
Unit Value: 10
OFC303 Chemistry:
1. investigates people and their world.
2. introduces the basic ideas of chemistry (the world of atoms, molecules and chemical substances) and develops an ability to interpret and communicate chemical ideas.
3. uses simple models to explain chemical concepts and provide insights into the role of chemistry in modern society.
Contact: 5 hours of lectures per week.
Assumed Knowledge: Nil

OFC303C Chemistry
Unit Value: 20
Chemistry is a central Science. The subject:
1. investigates people and their world.
2. introduces the basic ideas of chemistry (the world of atoms, molecules and chemical substances), and develops an ability to interpret and communicate chemical ideas.
3. uses simple models to explain chemical concepts and provide insights into the role of chemistry in modern society.
Assumed Knowledge: Nil

OFC304 Classical Studies
Unit Value: 20
Introduces key aspects of the worlds of Ancient Greece and Rome in the context of Mediterranean civilisation. Employs historical, archaeological and other written and literary forms of evidence to shed light upon Greco-Roman societies.
Contact: Five hours of lectures per week.
Assumed Knowledge: Nil

OFC304C Classical Studies
Unit Value: 20
Classical Studies introduces students to the history and culture of the ancient civilisations of Greece and Rome at the tertiary level via a coordinated series of lectures, tutorials and audio-visual presentations.
Contact: Five hours of lectures per week.
Assumed Knowledge: Nil

OFC305 Earth Science
Unit Value: 20
Introduces Geology, Physical Geography and Environmental Science for those with no prior knowledge of the subjects and affords a better understanding of the earth and its processes. Provides an appropriate basis on which to proceed to undergraduate studies in the Earth and Environmental Sciences and a body of knowledge and skills, complete in itself, for those not planning to continue with such subjects.
Contact: Five hours of lectures per week.
Assumed Knowledge: Nil

OFC306 English Literature and Film
Unit Value: 20
Explores a variety of literary and film texts, including fiction, drama and poetry, ranging from Shakespeare to 20th Century Australian, including a strong component of Irish literature. Critical techniques which assist in the appreciation of a variety of styles and genres, and which will assist in the process of building up essay-writing skills, will be emphasised. The method of delivery is by face-to-face teaching, with some opportunity for group discussion. Some audio tapes of poetry-readings and videos of films are used where appropriate as teaching aids.
Contact: Five hours of lectures per week.
Assumed Knowledge: Basic literacy
OF306C English Literature and Film  
**Unit Value:** 20  
This subject explores a variety of literary and film texts including fiction, drama and poetry, ranging from Shakespeare to 20th century Australian works, including a study component of Irish literature. Critical techniques which assist in the appreciation of a variety of styles and genres, and which assist in building up essay-writing skills, is emphasised. The major mode of delivery is through lecture and discussion.  
**Assumed Knowledge:** Nil  
**OF307 Philosophy**  
**Unit Value:** 20  
The subject will introduce students to philosophy through the study of four central areas: epistemology, critical reasoning, metaphysics and ethics. A basic level of knowledge of core philosophical concepts and skills is provided. Emphasis is placed on the application of a wider set of necessary skills for university study, including academic reading, writing and discussion.  
**Contact:** Five hours of lectures per week.  
**Assumed Knowledge:** Nil  
**OF308 Physics**  
**Unit Value:** 20  
OF308 Physics prepares students for the commencement of undergraduate study and requires a sound knowledge of fundamental principles of physics. The depth and extent of the subject is similar to 2 Unit HSC physics. It covers the basic concepts of mechanics, circular motion, wave motion, fluid mechanics, sound, light, electromagnetism and some modern physics.  
**Contact:** Five hours per week.  
**Assumed Knowledge:** Mathematical techniques equivalent to year 10 School Certificate.  
**OFC309 Science Mathematics**  
**Unit Value:** 20  
Provides students with the necessary mathematics required for first year undergraduate mathematics at University. Topics include number systems, basic algebra, simultaneous and quadratic equations, functions and graphs, sequences and series, trigonometry and differential and integral calculus with applications.  
**Contact hours:** 5 lecture hours per week  
**Assumed Knowledge:** It is assumed that students are proficient with algebra at Year 10 level  
**OFC309C Science Mathematics**  
**Unit Value:** 20  
Prepares students for the commencement of undergraduate study and requires a sound knowledge of mathematical principles. The depth and content is similar to 3 Unit HSC Mathematics. It covers number systems, basic algebra, simultaneous and quadratic equations, functions and graphs, sequences and series, trigonometry and differential and integral calculus with applications.  
**Contact hours:** 5 lecture hours per week  
**Assumed Knowledge:** Mathematical techniques equivalent to year 10 School Certificate.  
**OFC310 Social Enquiry**  
**Unit Value:** 20  
OFC310 Social Enquiry offers an introduction to the discipline of Sociology, which represents the study of people and cultures in industrial societies. OFC310 Social Enquiry an understanding of social structures and interaction, rule breaking, social inequality, the sociology of the family, gender identity, education, socialisation, childhood and peer culture. A range of sociological theories are taught, providing frameworks for analysing many aspects of social life. An introduction to research methods allows students to gain insight into the complex dynamics of social interaction. Sociological thought provides a different perspective for looking at social life and culture. This viewpoint challenges the taken for granted, or commonsense, view of the world.  
**Contact:** Five hours of lectures per week.  
**Assumed Knowledge:** Nil  
**OFC310C Social Enquiry**  
**Unit Value:** 20  
Social Enquiry offers an introduction to the discipline of Sociology and Anthropology, which represents the study of people and cultures in industrial and non-industrial societies. It provides an understanding of social structures and interaction, rule breaking, social inequality, the sociology of the family, gender identity, education, race and health. A range of sociological theories are taught, providing frameworks for analysing many aspects of social life. An introduction to research methods allows students to gain insight into the complex dynamics of social interaction. Sociological thought provides a different perspective for looking at social life and culture. This viewpoint challenges the taken for granted, or commonsense, view of the world.  
**Contact:** Five hours of lectures per week.  
**Assumed Knowledge:** Nil  
**OFC311C Linguistics**  
**Unit Value:** 20  
This is an introduction to the study of language including theoretical and applied aspects. It includes language learning, language concepts (including basic grammatical terms), language meaning and language in Australia.  
**Contact:** Five hours of lectures per week  
**Assumed Knowledge:** Nil  
**OFC312 Australian Human and Environmental Systems**  
**Unit Value:** 20  
OFC312 Australian Human and Environmental Systems allows students to develop a greater understanding of the world we live in. It investigates the dramatic events that shape the modern physical and human environment. It examines the human-language-environment systems through a program of lectures, practicals and fieldwork covering topics that include climate change, soil erosion and biodiversity, economic development and minority and ethnic diversity. It also reviews the impact of humans on Australian ecosystems and explores the implications for the management of the environment. Students develop hands-on-skills and techniques transferable to other subject areas. OFC312 Australian Human and Environmental Systems will provide students with the basis to continue in Geography, Environmental Science, Ecology and/or Biology either through a Bachelor of Science or a Bachelor of Arts degree.  
**Contact:** Two hours of lectures and three hours of tutorials per week  
**Assumed Knowledge:** Nil  
**OFC314 Introduction to Chemistry and the Life Sciences**  
**Unit Value:** 20  
Designed to introduce concepts in the physical and life sciences. Topics in the first part of the Semester include an introduction to the study of the basic chemistry required for further studies in the physical and life sciences: the concepts of atoms, molecules and ions; the periodic table; chemical compounds and formulae; bonding; basic shapes of molecules; chemical amounts and the mole concept; solution studies; and acids, pH and buffers. In the second part of the Semester, students will study EITHER the basic concepts of cell biology, anatomy and physiology, the components of the cell, osmosis, homeostasis, body systems, tissues and organs, body functions and important biochemical reactions; OR analytical chemistry; the gas laws; chemical equilibria; thermodynamics; oxidation and reduction; electrochemistry; and organic chemistry. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental, Biological and Chemical Science and Engineering.  
**Contact:** Five hours of lectures per week  
**Assumed Knowledge:** Nil  
**OFC314C Introduction to Chemistry and the Life Sciences**  
**Unit Value:** 20  
Designed to introduce concepts in the physical and life sciences. Topics in the first part of the Semester include an introduction to the study of the basic chemistry required for further studies in the physical and life sciences: the concepts of atoms, molecules and ions; the periodic table; chemical compounds and formulae; bonding; basic shapes of molecules; chemical amounts and the mole concept; solution studies; and acids, pH and buffers. In the second part of the Semester, students will study either the basic concepts of cell biology, anatomy and physiology, the components of the cell, osmosis, homeostasis, body systems, tissues and organs, body functions and important biochemical reactions; OR analytical chemistry; the gas laws; chemical equilibria; thermodynamics; oxidation and reduction; electrochemistry; and organic chemistry. Students will develop skills in observation, research and communication appropriate to further study in Life Sciences, Nursing, Environmental, Biological and Chemical Science and Engineering.  
**Contact hours:** 5 lecture hours per week  
**Assumed Knowledge:** Nil  
**OHSE1120 Occupational Health II**  
**Unit Value:** 10  
The purpose of this subject is to provide students with an understanding of the occupationally induced injuries and diseases affecting each body system. Through the study of occupational disease and the occupational effects on specific organ systems (such as respiratory disease, cancer, stress, back problems), students will gain an appreciation of the OHS problems of specific groups of workers.  
**Assumed Knowledge:** Basic biology and terminology, eg, HUBS1080.  
**OHSE1210 Safety Science I**  
**Unit Value:** 10  
The course comprises two parts of equal weighting which introduce students to concepts in chemistry and physics relevant to occupational health and safety. The chemistry component includes hazards, properties, reactions, bonding and equilibria, while the physics component covers mechanics and energy (heat, light and sound).  
**Assumed Knowledge:** There is no assumed knowledge. However, students who have not studied High School Certificate level Mathematics or Physics or Chemistry are recommended to consider a bridging course in at least one of these disciplines, prioritisising Mathematics.
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OHSE1210 Safety Science II
Unit Value: 10
Taught in two equal parts, one devoted to chemistry and chemical safety and the other to physics and physical safety. It will provide a basic background to the chemistry and physics of our working environment. There will be an emphasis on explaining safety data associated with chemicals and the physics of safe operation of equipment and safe workplace practices. This subject is a companion subject to ‘Safety Science I’, OHSE1210.
Assumed Knowledge: The knowledge considered desirable to facilitate success in the subject is the successful completion OHSE1210.

OHSE1310 Occupational Health and Safety Management 1
Unit Value: 10
Considers the theories and ideas underlying management and organisational behaviour. Supporting tutorials provide exposure to the more practical aspects of work in organisations. OHS131 is organised to give a general introduction to human behaviour and management, including an examination of individual behaviour followed by the study of groups and group processes, the organisation, management and management practices. Where appropriate, guest lecturers from industry provide examples of management in practice.
Assumed Knowledge: OHSE1310 is a first year course and there is no assumed prior knowledge.

OHSE1320 Occupational Health and Safety Law
Unit Value: 10
Gives students an understanding of the impact of the legal and regulatory system on health and safety in the workplace. Topics covered include: structure and functions of law and legal institutions in Australia as they relate to OH&S, an introduction to the employers/employee relationship; Tort Liability; Negligence, Breach of Statutory Duty; the Occupational Health & Safety Act 2000 (NSW) and related legislation; an introduction to the principles of Workers’ Compensation; issues in litigation and OH&S and anti-discrimination laws.
Assumed Knowledge: The course assumes no prior knowledge of law.

OHSE1410 Occupational Health & Safety Practice I
Unit Value: 10
Introduces the mathematical and statistical work required by the student in the early stages of this course. The informatics section covers PC operation, word processing, spreadsheets and databases, statistical usage and powerpoint. In line with the notion of practical application, this subject also contains a program of industrial and other visits.
Assumed Knowledge: Nil

OHSE1430 Occupational Health & Safety Practice II
Unit Value: 10
Will focus on experiential learning and problem based learning (pbl) techniques. Students will gain knowledge of a wide variety of occupational health and safety problems through real time industrial visits, videos of industrial visits and a range of pbl exercises covering major occupational groups and hazards.
Contact hours: 4 hours per week
Assumed Knowledge: nil

OHSE2110 Occupational Hygiene & Toxicology I
Unit Value: 10
Develops a conceptual framework for toxicology and knowledge and skills relevant to the practice of occupational hygiene in hazard identification, risk assessment and control of the work environment. Topics include: toxicological terminology; toxicokinetics and toxico-dynamics; toxicological testing methods; toxicity of specific groups of industrial chemicals; environmental and biological monitoring; setting and using hygiene standards; methods for monitoring environmental pollutants; strategies for the control of environmental pollutants; conducting and reporting on hygiene surveys.
Assumed Knowledge: Students undertaking this subject should have a good grasp of human bioscience. Assumed knowledge relates to subject HUBS108.

OHSE2120 Occupational Health III
Unit Value: 10
Introduces students to epidemiology as a way in which new knowledge in OH&S is gained, and provides the tools by which the OH&S literature can be critically evaluated. Also looks at the functions of occupational health services and other ‘populism’ issues in occupational health.
Assumed Knowledge: OHSE1120

OHSE2130 Occupational Hygiene & Toxicology I (DL)
Unit Value: 10
Restricted to overseas students.
Develops a conceptual framework for toxicology and knowledge and skills relevant to the practice of occupational hygiene in hazard identification, risk assessment and control of the work environment. Topics include: toxicological terminology; toxicokinetics and toxico-dynamics; toxicological testing methods; toxicity of specific groups of industrial chemicals; environmental and biological monitoring; setting and using hygiene standards; methods for monitoring environmental pollutants; strategies for the control of environmental pollutants; conducting and reporting on hygiene surveys. This subject is taught by distance learning.
Assumed Knowledge: Students undertaking this subject should have a good grasp of human bioscience. Assumed knowledge relates to subject HUBS108.

OHSE2140 Occupational Health III (DL)
Unit Value: 10
Restricted to overseas students.

OHSE2210 Safety Technology I
Unit Value: 10
Covers safety aspects of materials choice in engineering design, examining reasons for failures and the role of the material in the safety of mechanical plant and equipment. The safety aspects of chemical processing and storage, and identification of potential hazards is studied.
Assumed Knowledge: Subjects OHSE1210 and OHSE1220 encompass basic physical principles which are assumed knowledge for this subject.

OHSE2220 Safety Technology II
Unit Value: 10
Covers safety in the operation of plant and equipment in manufacturing and in the building and construction industry. It examines identification of hazards and their correction and elimination. Topics include handling systems, causes of failure, testing methods, guarding, safety of excavations, scaffolding and lifts.
Assumed Knowledge: Subjects OHSE1210 and OHSE1220 encompass basic physical principles which are assumed knowledge for this subject.

OHSE2310 Occupational Health and Safety Management II
Unit Value: 10
Offers a broad introduction to the discipline of industrial relations with a specific focus on the employment relationship. Attention is devoted to the historical development of the regulation of the employment relationship, and the role of the state, employers and employees in regulating this relationship, including the regulation of issues associated with occupational health and safety. The Australian system of industrial relations is placed in international context. An understanding of the real world of industrial relations and variations in the regulation of the employment relationship forms a basis for the investigation of theoretical perspectives on the employment relationship and consideration of issues associated with gender and work.
Assumed Knowledge: OHSE1310

OHSE2320 Ergonomics for OHS
Unit Value: 10
Introduces the student to the scope of ergonomics and the application of ergonomic principles to workplace design and work organisation. It includes physiological, anatomical, psychological, environmental and management perspectives on work capacity, workplace design and work organisation.
Assumed Knowledge: No prior knowledge assumed.

OHSE2330 Ergonomics for OHS (DL)
Unit Value: 10

OHSE2430 Occupational Health and Safety Practice III
Unit Value: 10
Will develop knowledge and skills in risk assessment and management, as required for effective occupational health & safety practice. It will include the application of adult learning principles to the development of OHS training; accident theories and the analysis of accident causation; accident investigation techniques; safety inspections and auditing and practical approaches to safety management and risk management.
Assumed Knowledge: One thousand level courses in the Bachelor of Occupational Health & Safety.
Each student is required to find a workplace in the Hunter Region where s/he can work unpaid in an OHS function, for a minimum of 40 hours. Each student prepares a learning contract with the Discipline which details the individual objectives of the placement, the approach to be taken in achieving the objectives and the means of assessing if the objectives have been met. The student works under the supervision of a member of academic staff in the Discipline and a local supervisor. At the end of the placement, the student reviews the learning experience and reports on any modifications desirable to maximise the benefits. The student is expected to reflect on the contribution of the experience to professional and general development.

Assumed Knowledge: Nil

OHSE2630 Occupational Health

Unit Value: 10

The course is only offered externally in Singapore. Focuses on experiential learning and problem based learning (pbl) techniques. Students will gain knowledge of a wide variety of occupational health and safety problems through real time industrial visits, videos of industrial visits and a range of pbl exercises covering major occupational groups and hazards.

Assumed Knowledge: Nil

OHSE2640 Hygiene & Toxicology I

Unit Value: 10

The course is only offered externally in Singapore. Develops a conceptual framework for toxicology and knowledge and skills relevant to the practice of occupational and environmental hygiene in hazard identification, risk assessment and control of the environment. Topics include: toxicological terminology; toxicokinetics and toxico-dynamics; toxicological testing methods; toxicity of specific groups of industrial chemicals; environmental and biological monitoring; setting and using hygiene standards; methods for monitoring environmental pollutants, including noise; strategies for the control of environmental pollutants; and reporting on hygiene surveys.

Assumed Knowledge: ENVS2620 Biosciences for EOHS

OHSE3040 Environmental Health

Unit Value: 10

Introduces the concepts of environmental health. Part of the course explores the relationship between the environment and human disease and looks at specific environmental pollutants and health. The other part considers the methods used to assess the relationship between the environmental and human health both to identify hazards and to quantify risk. This includes risk assessment which is important in environmental health and communicating this risk to the community presents many challenges.

Assumed Knowledge: Nil

OHSE3110 Occupational Hygiene & Toxicology II

Unit Value: 10

Enhances the knowledge and skills acquired in OHSE 2110: Occupational Hygiene and Toxicology I and relates them to the practice of occupational hygiene in the field, to the toxicological evaluation of chemicals and to hazardous substances risk assessment.

Assumed Knowledge: OHSE2110 Occupational Hygiene & Toxicology I

OHSE3120 Research Methods in OHS

Unit Value: 10

Research is important in Occupational Health and Safety as in any other aspect of human endeavour. There is always a need to find new information or develop new processes or procedures. We should be able to do this to some extent in our own workplaces. Often we have ideas about research but don’t really know how to go about it or are not able to persuade someone else to contribute to it. This course will introduce students to the nature of research and how to start conducting research. Students work in small groups to write a research protocol for a research project. The writing of a research protocol helps get ideas straight and clearly outlines what is to be done so others can judge its merits fairly. In doing this students need to refer to their studies in Epidemiology for Occupational Health (part of OHSE2120).

Assumed Knowledge: OHSE2120 or equivalent.

OHSE3210 Safety Technology III

Unit Value: 10

Examines various methods of optimising safety in the workplace, in the context of technological developments and practices in relation to fire and explosion safety, electrical safety and environmental control, including noise and ventilation.

Assumed Knowledge: Nil

OHSE3220 Safety Technology IV

Unit Value: 10

This subject is now an elective on the Bachelor Occupational Health & Safety course. A minimum enrolment of 16 is required to offer the subject in any one year. Examines the role of maintenance in preventing machinery breakdowns and the relationship between machinery failures and safety. The determination of maintenance schedules, cost, documentation, and reliability are considered.

Contact hours: 4 hours per week

Assumed Knowledge: OHS121 and OHS122

OHSE3310 OHS Management III

Unit Value: 10

Considers OHS management within a strategic and tactical human resource management (HRM) framework. Students learn how OHS interacts with the values and assumptions underlying HRM, the contribution made by HRM to organisational performance and in auditing HRM. Contemporary developments in HRM are also analysed.

Contact hours: 3 hours per week

Assumed Knowledge: It is recommended students complete OHS 131: OH & Management I, prior to undertaking this subject.

OHSE3330 OHS Management III (Human Resource Management)(DL)

Unit Value: 10

Restricted to overseas students. Considers OHS management within a strategic and tactical human resource management (HRM) framework with special reference to the South East Asian context. Students learn how OHS interacts with the values and assumptions and functional aspects of HRM. In addition special topics on contemporary developments in HRM are also presented and analysed.

Contact hours: Distance learning

Assumed Knowledge: OHS131 Introduction to Management (or equivalent).

OHSE3410 OHS Practice V

Unit Value: 10

Consists of lectures and seminars on international perspectives on occupational and environmental health and safety. In particular it provides an international context for examining the scope of occupational and environmental health and safety. It explores how the functions of international organisations, such as ILO and WHO and examines the role of Australia in OH&S development overseas.

Assumed Knowledge: Nil/A

OHSE3620 Epidemiology & Environmental Health

Unit Value: 10

The course is only offered externally in Singapore. Introduces students to epidemiology as a way in which new knowledge in EOHS is gained, and provides the tools by which the EOHS literature can be critically evaluated. Explores the relationship between the environment and human disease and looks at specific environmental pollutants and health.

Assumed Knowledge: ENVS2620 Biosciences for EOHS

OHSE3710 International Perspectives on EOHS

Unit Value: 10

The course is only offered externally in Singapore. Considers international perspectives on environmental and occupational health and safety. In particular it provides an international context for examining the scope of EOHS, the impact of global economic and political climates on EOHS developments, and explores the functions and activities of international organisations, such as ILO, WHO and Greenpeace.

Assumed Knowledge: Nil
PHIL1020 Introduction to Philosophy A
Unit Value: 10
Introduces students to areas, themes or problems in philosophy in a manner designed to provide them with a basic grasp of the nature and scope of the discipline.
Assumed Knowledge: There is no assumed knowledge.

PHIL1030 Introduction to Philosophy B
Unit Value: 10
Introduces students to areas, themes or problems in philosophy in a manner designed to provide them with a basic grasp of the nature and scope of the discipline.
Contact hours: 3 hours per week
Assumed Knowledge: There is no assumed knowledge.

PHIL1050 Great Philosophers - Great Books
Unit Value: 10
Introduces students to the philosophical ideas in some of the greatest works of the thinkers that helped found the world’s civilisations, such as Plato and Confucius.
Contact hours: 3 hours per week
Assumed Knowledge: There is no assumed knowledge.

PHIL1060 INTRODUCTION TO PHILOSOPHY OF PSYCHOLOGY
Unit Value: 10
This subject introduces students to the philosophical issues that arise from the theory and practice of Psychology. It has been specifically designed to meet the requirements of the Bachelor of Psychology degree. Topics covered will include the mind/body problem, scientific method, behaviourism, norms and ethics.
Assumed Knowledge: Qualification for entry to Bachelor of Psychology or other relevant degrees.

PHIL3030 Reason and Religion
Unit Value: 10
Examines a number of issues in philosophical theology which came to the fore in the medieval and early modern periods. Issues to be discussed may include proofs for the existence of God, the nature of deity, God’s knowledge of the future and predestination, the nature of religion, the relation of religion and science, and the sources of the concept of deity. Philosophers and theologians to be considered in the discussion of one or more of these issues may include St Thomas Aquinas, Luther, Calvin, Lord Herbert of Cherbury, Descartes, the Cambridge Platonists, Locke and Hume.
Assumed Knowledge: At least 10 units of PHIL courses at 1000 level, or 40 units of any courses at any level.

PHIL3060 Topics in Ancient, Medieval, and Modern Philosophy
Unit Value: 10
Examines a range of topics in metaphysics, epistemology and philosophical anthropology in a number of different philosophical traditions. Examples of topics which may be covered in the course include theories of reality and knowledge in the Platonic, Neo-platonic, and Aristotelian traditions; ancient and modern scepticism; theories of the person in the Platonic, Aristotelian and the Empiricist traditions.
Contact hours: 2 hours per week
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any subjects at any level.

PHIL3070 Scientific Knowledge & Scientific Method
Unit Value: 10
Introduces the nature of scientific method and the grounds of scientific knowledge as expressions of scientific rationality for both science and humanities students.
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3130 Gender and Philosophy
Unit Value: 10
Introduces students to an appreciation and critical appraisal of the central philosophical issues raised within the analysis of gender. It is aimed at students undertaking courses in Gender Studies as well as Philosophy.
Contact hours: 2 hours per week
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3140 Non-European Philosophies
Unit Value: 10
Examines philosophies developed by cultures that are not rooted in Western Europe. Examples of philosophies that may be covered in this course include Chinese, Indian, Southeast Asian, Native American, Aboriginal Australian, African, and Middle Eastern.
Assumed Knowledge: At least 10 units of PHIL courses at 1000 level, or 40 units of any courses at any level.

PHIL3450 Philosophy and the Good Life
Unit Value: 10
Involves discussion of issues raised by the question of what makes a good life. Such issues may include: Does the meaning of life depend on being externally given, or can we create meaning? What is the difference between friendship and love, and is a good life possible without these? What is death, and why does it matter? The subject also addresses the methodological question of how a life is best understood: analytically, poetically, as a narrative, or in some other way.
Assumed Knowledge: At least 10 units of PHIL courses at 1000 level, or 40 units of any courses at any level.

PHIL3580 Ethical Issues
Unit Value: 10
Introduces students to moral issues relevant to their profession, and to techniques for dealing in general with moral problems and dilemmas they may encounter in their professional lives. The course is designed for students of Communications and Media Arts, and Social Work, as well as for philosophy students.
Contact hours: 3 hours per week
Assumed Knowledge: 60 units of successfully completed courses.

PHIL3710 Metaphysics Epistemology Rationioality 1
Unit Value: 10
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on metaphysics, epistemology and rationality.
Contact hours: 2 hours per week
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3720 Metaphysics Epistemology Rationioality 2
Unit Value: 10
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on metaphysics, epistemology and rationality.
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3730 Metaphysics Epistemology Rationioality 3
Unit Value: 10
A systematic study of a major problem or major theme or major philosopher or group of philosophers, focused on metaphysics, epistemology and rationality.
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3910 Technology and Human Values
Unit Value: 10
Teaches the nature and systematic analysis of normative design decisions, in particular in engineering, in the context of a systems dynamic approach to modelling. It sets that study in a larger framework of analysis of Western commercial, political and social systems and their functioning, and of the professional ethics that flow from that.
Assumed Knowledge: At least 10 credit points of PHIL subjects at 1000 level or 40 credit points of any other subjects at any level.

PHIL3930 Human Values & Commercial Prac
Unit Value: 10
Teaches the nature and systematic analysis of normative decisions, in particular in business settings. It sets that study in a larger framework of analysis of Western commercial, political and social systems and their functioning, and of the professional ethics that flow from that.
Assumed Knowledge: Either 10 units of Philosophy courses at 1000 level, or 40 units of any courses at any level.

PHIL3990 Directed Readings
Unit Value: 10
 Provides an individual student with an appropriate demonstrated expertise and discipline, and an appropriate rationale for doing so, the opportunity to study a mutually agreed area, theme or problem in philosophy which would not normally be available in the department’s regularly scheduled courses.
Assumed Knowledge: 100 units of successfully completed courses.
PHIL4050 Philosophy Honours I
Unit Value: 20
Studied in conjunction with PHIL405, PHIL406 and PHIL407, the four courses jointly constituting the honours program in philosophy - provides honours philosophy students with an opportunity to participate in an intensive in-depth study seminar on a major area, theme or problem in philosophy based in extensive reading and extended critical discussion.
Contact hours: 3 hours per week
Assumed Knowledge: 110 units of successfully completed Philosophy course, or equivalent, plus qualification for entry to the B.A. pass degree, or equivalent.

PHIL4060 Philosophy Honours II
Unit Value: 20
Studied in conjunction with PHIL 405, PHIL 407 and PHIL 408, the four courses jointly constituting thehonours program in philosophy - provides honours philosophy students with an opportunity to participate in an intensive in-depth study seminar on a major area, theme or problem in philosophy based in extensive reading and extended critical discussion.
Contact hours: 3 hours per week
Assumed Knowledge: 110 units of successfully completed Philosophy courses, or equivalent, plus qualification for entry to the B.A. pass degree, or equivalent.

PHIL4070 Philosophy Honours III
Unit Value: 20
Studied in conjunction with PHIL 405, PHIL 406 and PHIL 408, the four courses jointly constituting thehonours program in philosophy - provides honours philosophy students with an opportunity to participate in an intensive in-depth study seminar on a major area, theme or problem in philosophy based in extensive reading and extended critical discussion.
Contact hours: 3 hours per week
Assumed Knowledge: 110 units of successfully completed Philosophy course, or equivalent, plus qualification for entry to the B.A. pass degree, or equivalent.

PHIL4080 Philosophy Honours IV
Unit Value: 20
Studied in conjunction with PHIL 405, PHIL 406 and PHIL 407, the four courses jointly constituting thehonours program in philosophy - provides honours philosophy students with an opportunity to participate in an intensive in-depth study seminar on a major area, theme or problem in philosophy based in extensive reading and extended critical discussion.
Contact hours: 3 hours per week
Assumed Knowledge: 110 units of successfully completed Philosophy course, or equivalent, plus qualification for entry to the B.A. pass degree, or equivalent.

PHTY1101 Physiotherapy I
Unit Value: 20
An introduction to the roles and responsibilities of the physiotherapist in the health care team. Basic health evaluation and measurement skills and related knowledge needed for general physiotherapy practice.
Assumed Knowledge: Nil

PHTY1102 Physiotherapy II
Unit Value: 20
Basic treatment and health intervention skills and related knowledge needed for general physiotherapy practice. An introduction to physiotherapy clinical practice and the theory and concepts of clinical reasoning.
Assumed Knowledge: PHTY1101 - Physiotherapy I

PHYS1130 Advanced Physics for Scientists and Engineers I
Unit Value: 10
Not to count with PHYS1100, PHYS1110, PHYS1150C, PHYS1200 or PHYS1210. Introduces students to the basic concepts and principles in Physics essential for further studies in science and technology. The topics covered in this rigorous calculus based subject are linear mechanics, electricity, thermal physics and waves.
Assumed Knowledge: Completion of HSC 2 unit Physics and 3 unit Mathematics, or their equivalent.

PHYS1140 Advanced Physics for Scientists and Engineers II
Unit Value: 10
Not to count with PHYS1120, PHYS1220 or PHYS1160C. Presents the basic concepts and principles of Physics that are required for further studies in science and technology. The topics covered in this rigorous calculus based subject, which is an extension of the first semester subject PHYS1130, are rotation, electromagnetism, kinetic theory, optics and nuclear physics.
Assumed Knowledge: Completion of HSC 2 unit Physics and 3 unit Mathematics, or their equivalent.

PHYS1150 Physics for Biotechnologists I
Unit Value: 10
Provides an introduction to the basic knowledge and techniques used in physics and needed to analyse physical problems in the research and development environment. The subject is designed specifically to cater to the needs of students in science-based courses at the Central Coast Campus. Students in a range of disciplines at the Central Coast including Food Technology and Marine Biology will find this course useful. There is an emphasis on practical applications of physics so that at the end of the subject students should be able recognise and develop solutions to problems in their area of specialisation that relate to basic physics. Provides an introduction to concepts in mechanics, fluid mechanics and electricity.
Assumed Knowledge: no prior knowledge is assumed

PHYS1160 Physics for Biotechnologists II
Unit Value: 10
Provides an introduction to the basic knowledge and techniques used in physics and needed to analyse physical problems in the research and development environment. The subject is designed specifically to cater to the needs of students in science-based courses at the Central Coast Campus. Students in a range of disciplines at the Central Coast including Food Technology and Marine Biology will find this course useful. There is an emphasis on practical applications of physics so that at the end of the subject students should be able recognise and develop solutions to problems in their area of specialisation that relate to basic physics. Provides an introduction to magnetism, thermal physics, nuclear physics, optics and rotational mechanics.

PHYS1200 Introductory Physics
Unit Value: 10
Not to count with PHYS1100, PHYS1110, PHYS1130, PHYS1150C or PHYS1210 This is a non-calculus based course that introduces students to the basic concepts and ideas underlying physical processes and instrumentation. The topics covered are mechanics, electricity and magnetism, thermal physics, nuclear physics, fluid mechanics and waves.

PHYS1210 Advanced Physics I
Unit Value: 10
Not to count with PHYS1100, PHYS1110, PHYS1130, PHYS1150C or PHYS1210
This is a rigorous calculus based course that introduces students to the basic concepts and principles in Physics essential for further studies in the physical sciences and technology. The topics covered are particle physics and cosmology, mechanics and kinematics, special relativity, thermodynamics, wave mechanics and nuclear physics.
Assumed Knowledge: Mathematics Extension 1 with a result in Bands 3 or 4. It is also recommended that students have undertaken Physics with a result in Bands 5 or 6.

PHYS1220 Advanced Physics II
Unit Value: 10
Not to count with PHYS1120, PHYS1140 or PHYS1160C
This is a rigorous calculus based course that introduces students to the basic concepts and principles of Physics essential for further studies in science and technology. The topics covered in this course, which is an extension of the first semester course PHYS1210, are integrated physics, electricity and electromagnetism, optics, quantum mechanics, and atoms, molecules and solids.

PHYS2100 Introduction to Astronomy
Unit Value: 10
This course aims to develop an understanding of basic issues, developments and skills in astronomy, with an emphasis on new and exciting advances. Topics include instrumental techniques, structure of the sun and solar system, the life cycle of stars, star clusters, quasars, pulsars and space weather.

PHYS2110 Variational and Statistical Methods
Unit Value: 5
Introduces the ideas and techniques of variational methods that are relevant to the physical sciences, and examines the role of statistical models in describing the physics of matter. The aim of this subject is to equip students with a range of mathematical skills including combinatorics, probability functions and the concepts of averaging over such functions, with application to a variety of physical systems.
Contact hours: 1 Lecture hour per week, 5 one-hour tutorials, and 12 hours of laboratory exercises.
Assumed Knowledge: PHYS113, PHYS114 and MATH122
Not to count with PHYS213 and PHYS214, plus MATH111 or MATH114, or their equivalent. They should also have completed MATH111 or MATH121, and MATH112 or MATH122.

**Assumed Knowledge:** PHYS1130 and PHYS1140, plus MATH111 or MATH121, and MATH112 or MATH122.

**PHYS2140 Quantum Mechanics**

**Unit Value:** 5

Introduces students to the basic concepts and ideas in quantum physics. Quantum mechanics has reshaped our view and understanding of the world in which we live. Many of the physical phenomena that form the basis of recent advances in science and technology cannot be explained without invoking quantum theory. Emphasis will be placed on the fundamental postulates that underpin the theory, and the basic concepts will be illustrated with applications to simple systems of physical importance.

**Contact hours:** 1 lecture hour per week, 5 one-hour tutorials and 15 laboratory hours per semester.

**Assumed Knowledge:** Students attempting this subject should have already completed PHYS113 or PHYS114, or their equivalent. They should also have completed MATH111 or MATH121, and MATH112 or MATH122.

**PHYS2150 Electromagnetism**

**Unit Value:** 5

Provides an introduction to the physical laws governing the behaviour and interaction of electric and magnetic fields which are fundamental to many new technologies such as lasers, TV and radar. The purpose of this subject is to provide an understanding of these physical laws. The subject introduces students to the basic concepts and ideas in electromagnetism and gives them the tools to quantitatively investigate electromagnetic phenomena.

**Contact hours:** 1 lecture hour per week, 5 one-hour tutorials and 15 laboratory hours per semester.

**Assumed Knowledge:** Students attempting this subject should have already completed PHYS113 and PHYS114, or their equivalent. They should also have completed MATH201.

**PHYS2160 Modern Optics**

**Unit Value:** 10

The course introduces students to the principles and applications of modern optics, from diffraction and interference theory to holography, polarisation and laser applications in industry and research.

**Assumed Knowledge:** PHYS1140

**PHYS2170 Optical Design**

**Unit Value:** 5

Optical instruments from cameras and telescopes to photocopiers and optical fibres are used extensively in our society. This course will introduce students to the use of computer packages to design optical systems with improved optical properties, such as minimised spherical and chromatic aberrations or maximised reflectivity.

**Assumed Knowledge:** PHYS1140

**PHYS2180 Semiconductor and Quantum Physics**

**Unit Value:** 10

Not to count with PHYS2130, PHYS2140 or ELEC2200.

In our rapidly developing technological world, an understanding of the fundamental physical processes that underpin these advances is essential if we are to play a part in these developments rather than simply be observers. This course will develop the concepts of quantum mechanics in the context of semiconductor devices and will show how these radical ideas from Physics have laid the foundation for the ongoing technological revolution in electronics, photonics and information technology that we take for granted.

**Assumed Knowledge:** Students attempting this subject should have already completed PHYS1130 and PHYS1140, or their equivalent. They should also have completed MATH1110 or MATH1210, and MATH1120 or MATH1220.

**PHYS2190 Mathematics of Physical Systems**

**Unit Value:** 10

Not to count with PHYS2110 or PHYS3220.

This course will introduce a range of mathematical topics and their physical applications. The same mathematical theme, applied linear algebra, will run through all topics covered. This course provides a mathematical basis for further study in physics, at the 3000 level. It will also be of interest to those with a more general interest in the applicability of mathematics.

**Assumed Knowledge:** PHYS1130, PHYS1140 and MATH1120, or their equivalent.

**PHYS2200 Nuclear Physics and Applications**

**Unit Value:** 10

Not to count with PHYS3180 Nuclear Physics.

This course presents concepts and theories of nuclear physics with an emphasis on their application in the real world. Specific topics include nuclear properties and models, types of nuclear reactions, kinematics, and nuclear spectroscopy. These provide a basic understanding of nuclear processes and their use in areas such as diagnostic medicine, environmental monitoring, energy production, subatomic particles, and astrophysics. The main delivery mode will be by lectures, tutorials and laboratory exercises. Visits to nuclear facilities may be included as part of the latter.

**Assumed Knowledge:** PHYS1100, PHYS1120 or PHYS1140.

In each case the relevant aspects are the nuclear physics components of these courses.

**PHYS2210 Optical Design and Semiconductor Devices**

**Unit Value:** 10

Not to count with PHYS2170 or ELEC2210.

Optical instruments from cameras and telescopes to photocopiers and optical fibres are used extensively in our society. The first half of this course will introduce students to the use of computer packages to design optical systems with improved optical properties, such as minimised spherical and chromatic aberrations or maximised reflectivity. The second half of this course follows on from the semiconductor physics component of PHYS2180 and discusses the characteristics of electronic devices such as diodes, MOSFETs and thyristors, and their application in electrical circuits.

**Assumed Knowledge:** PHYS1140 or PHYS1120, ELEC1300 and ELEC1700

**PHYS2270 Sports Science - 2B**

**Unit Value:** 5

Examines how physical activity and sporting performance can be analysed using the basic laws of physics and mechanics. The main topics include muscle actions, joint movements, rectilinear and rotational motion, simple mechanics, fluid mechanics and the biomechanical analysis of specific sporting skills. This subject is important for students with an interest in physical education, and in understanding and optimising physical performance.

**Contact hours:** 1 lecture hour and 1 tutorial hour per week, plus 8 laboratory hours over the semester.

**Assumed Knowledge:** Anatomy(ANAT102) and Exercise Physiology (HUPH 206)

**PHYS3110 Quantum Mechanics**

**Unit Value:** 5

Follows on from PHYS214 and presents a more rigorous treatment with a major emphasis on the conceptual basis of Quantum Mechanics. This subject explains and describes the fundamental mathematical and scientific framework that underpins Quantum Mechanics. The philosophical implications of the theory will also be outlined.

**Contact hours:** 1 lecture hour per week, 5 one-hour tutorials, and 18 laboratory hours per semester.

**Assumed Knowledge:** Students attempting this subject should have already completed either PHYS201 or PHYS214. They should also have completed MATH201 and MATH203, or their equivalent.

**PHYS3140 Atomic and Molecular Physics**

**Unit Value:** 5

Provides an introduction to the fundamentals of atomic and molecular physics. The study of atomic physics has led to many present day technological wonders such as lasers and medical imaging techniques. Atomic and molecular physics also provides the basic framework for understanding many other areas of physics and chemistry, including the nature of chemical bonding and the properties, analysis and manipulation of materials. There will be an emphasis on describing the structure of atoms, and interactions between atoms, as well as the effects of electric and magnetic fields on atomic and molecular structure, leading to a discussion of modern laser based spectroscopies.

**Contact hours:** 1 lecture hour per week, 5 one-hour tutorials, and 18 laboratory hours per semester.

**Assumed Knowledge:** PHYS214

**PHYS3180 Nuclear Physics**

**Unit Value:** 5

Presents the concepts, theories and experiments of nuclear physics at an advanced level. Topics include nuclear properties and models, types of nuclear reactions, kinematics and nuclear spectroscopy. These provide a basic core understanding of nuclear processes. These topics are supplemented by additional material on nuclear astrophysics and subatomic particles. The aim of this latter material is to familiarise students with some of the high profile areas of nuclear research.

**Contact hours:** 1 lecture hour per week, 5 one-hour tutorials, and 18 laboratory hours per semester.

**Assumed Knowledge:** PHYS214 - Quantum Mechanics
PHYS3200 Solid State and Surface Physics
Unit Value: 10
This subject is only available to students enrolled in the Bachelor of Engineering/Bachelor of Science (Materials Science) combined degree program. The subject covers the development of the theories of perfect crystals, with particular reference to their electronic structure. It also includes a fairly comprehensive treatment of the theoretical and experimental methods for studying metal and semiconductor surfaces.
Contact hours: 25 hours of lectures.
Assumed Knowledge: PHYS201 or PHYS214, PHYS213 and MATH203.

PHYS3210 Research Project
Unit Value: 30
This subject is only available to students enrolled in the Bachelor of Engineering/Bachelor of Science (Materials Science) combined degree program. The subject comprises a research project associated with Solid State or Surface Physics from a list of topics offered. Each student will carry out a literature survey, conduct experiments and/or develop theoretical models appropriate to their chosen topic, and present the results of this research in a seminar, an oral examination and by writing a mini thesis.
Assumed Knowledge: PHYS320 and PHYS328.

PHYS3220 Mathematics of Physical Systems
Unit Value: 5
Shows how mathematics and physics can be combined to provide a deeper insight into many common physical systems. The subject will emphasise the use of mathematical models in understanding the real world, and show how complex mechanical systems can be described within a mathematical framework.
Contact hours: 1 lecture hour per week, 5 one-hour tutorials, and 12 laboratory hours per semester.
Assumed Knowledge: PHYS211, MATH201 and MATH203.

PHYS3230 Statistical Physics
Unit Value: 5
Provides an introduction to the ideas, concepts and techniques used in statistical physics, and hence constitutes an ideal general introduction to the physics of many body systems. The subject employs computer exercises to illustrate some of the common simulation techniques which are used to model physical systems.
Contact hours: 1 lecture hour per week, 5 one-hour tutorials, and 12 laboratory hours per semester.
Assumed Knowledge: PHYS211, MATH201 and MATH203.

PHYS3260 Computer Modelling for Physical Scientists
Unit Value: 10
Considers the use of computers in the modeling of systems drawn from a wide variety of different disciplines. Discussion will focus around the different types of modeling, and the main techniques appropriate to each. Applications of the techniques will form a major part of the subject with special emphasis being placed on the physical sciences.
Assumed Knowledge: 40 units of 200 level Science and Mathematics

PHYS3270 Applications in Electromagnetism
Unit Value: 5
Focuses on the propagation of electromagnetic waves via transmission lines, waveguides, cavities and optical fibres, which is the basis of modern communications. The subject also includes a discussion on the reflection of electromagnetic waves and antennae.
Contact hours: 1 lecture hour and 1 tutorial hour per week, and 12 laboratory hours per semester.
Assumed Knowledge: MATH201, and either PHYS201 or PHYS215.

PHYS3280 Nanotechnology
Unit Value: 5
Aims to introduce students to an exciting new area of science. As we start the 21st century, the age of microtechnology, which revolutionised the electronics industry and carved out computer markets worth more than $100 billion annually, is being supplanted by a new revolution in materials. Nanotechnology will most likely create entirely new technologies and open commercial arenas beyond computers that are potentially even more vast. The subject will show how fundamental physics is underpinning the recent innovations in this area.
Contact hours: 1 lecture hour per week, 5 one-hour tutorials and 15 laboratory hours per semester.
Assumed Knowledge: PHYS213, PHYS214, and MATH122 or its equivalent.

PHYS3290 Special Relativity
Unit Value: 10
This course should not count for credit with PHYS324.
Introduces the main concepts and ideas of Special Relativity. Einstein’s theory of relativity describes the geometry of space and time. It is a basic ingredient of our current understanding of the physical world, and is central to much modern technology. The Special Theory of Relativity is restricted to phenomena where gravitation can be neglected, whilst a description of gravitational effects requires the ‘General Theory’. This course focuses on ‘Special Relativity’ and lays the basis for subsequent studies in the more General Theory.
Contact hours: 2 hours lectures/tutorials per week, and 12 laboratory hours per semester.
Assumed Knowledge: A minimum of 100 level physics and 200 level mathematics is required.

PHYS3300 Lasers
Unit Value: 10
Lasers are at the heart of much of modern technology, from communications to remote sensing to microsurgery. This course will cover the theory of resonant optical cavities, active media, laser oscillation and dynamics as well as introduce the principles and application of specific lasers, including semiconductor lasers, argon ion lasers, Nd:YAG lasers, excimer lasers and free electron lasers.
Assumed Knowledge: PHYS2120, PHYS2140, PHYS2150, PHYS3350.

PHYS3310 Optoelectronic Materials and Devices
Unit Value: 5
Many instruments, such as photocopiers, scanners and lasers, use non-linear optoelectronic materials. They also form the basis of communication systems. The purpose of this course is to outline the principles and applications of such materials.
Assumed Knowledge: PHYS2160, PHYS3350 and PHYS3300.

PHYS3320 Optical Communications
Unit Value: 10
Much of modern telecommunications rests on the ability to be able to send multiple communication channels along a single optical fibre. This advanced course will cover the theory and application of pulse propagation in optical fibres, fibre fabrication, planar waveguides and optical circuitry.
Assumed Knowledge: Students attempting this course should have already completed PHYS2160 and PHYS3350.

PHYS3330 Industrial Project and Seminar
Unit Value: 10
Students will complete a project under the joint supervision of university and industry personnel. Part of the project will be completed at the industry partner’s premises. Students will give a seminar on their work at the conclusion of the project.
Assumed Knowledge: PHYS3300, ELEC3500, PHYS2160, PHYS2170.

PHYS3340 Mechanical Stability of Optical Systems
Unit Value: 10
Optical fibre technology depends on the accurate positioning of fibres in vibration free environments. This course reviews the dynamics of vibrating systems and applies that theory to optical components and systems.
Assumed Knowledge: PHYS1130.

PHYS3350 Quantum, Atomic & Molecular Physics
Unit Value: 10
Not to count with PHYS3110 or PHYS3140.
The development of Quantum Mechanics was probably the greatest scientific achievement of the 20th Century and radically altered our understanding of the physical world. The concepts of Quantum Mechanics ultimately define all scientific endeavour and thus lie at the heart of what we understand science to be. This course will explain and describe the fundamental mathematical and scientific framework that underpins Quantum Mechanics and the fundamentals of atomic and molecular physics.
The study of atomic physics has led to many present day technological wonders such as lasers and medical imaging. The latter part of this course will describe the structure of atoms, and the interactions between atoms, as well as the effects of electric and magnetic fields on atomic and molecular structure, leading to a discussion of modern laser based spectroscopy.
Assumed Knowledge: Students attempting this course should have already completed PHYS2010, PHYS2140 or PHYS2180. They should also have completed MATH2010 and MATH2030, or their equivalent.

PHYS3370 Statistical Physics
Unit Value: 10
Not to count with PHYS3230.
This course provides an introduction to the ideas, concepts and techniques used in statistical physics, and hence constitutes an ideal general introduction to the physics of many body systems. The subject employs computer exercises to illustrate some of the common simulation techniques which are used to model physical systems.
Assumed Knowledge: PHYS2110, MATH2010 and MATH2030.

PHYS3380 Research Project - Part 1
Unit Value: 15
This course is only available to students enrolled in the Bachelor of Engineering/Bachelor of Science (Materials Science) combined degree program. The course comprises the first part of a research project. This project will normally be chosen from a list of topics provided by the Discipline of Physics. Projects offered by the Department of Mechanical Engineering which contain an adequate physics content could also be undertaken subject to approval by the Head of the School of Mathematics and Physical Sciences. Each student will carry out a literature survey, conduct experiments and/or develop theoretical models appropriate to their chosen topic, and present the results of this research in a seminar, an oral examination and by writing a mini thesis.
This course must be undertaken in conjunction with the course PHYS341 Research Project - Part 2.
Neither PHYS340 nor PHYS341 can count for credit as single courses.
Assumed Knowledge: PHYS320 and PHYS328. Possibly some specific mechanical engineering courses for projects chosen from Mechanical Engineering.
PHYS3410 Research Project - Part 2
Unit Value: 15

This course is only available to students enrolled in the Bachelor of Engineering/Bachelor of Science (Materials Science) combined degree program. The course is a sequel to PHYS340 and comprises the second part of a research project. This project will normally be chosen from a list of topics provided by the Discipline of Physics. Projects offered by the Department of Mechanical Engineering which contain an adequate physics content could also be undertaken subject to approval by the Head of the School of Mathematical and Physical Sciences. Each student will carry out a literature survey, conduct experiments and/or develop theoretical models appropriate to their chosen topic, and present the results of this research in a seminar, an oral examination and by writing a mini thesis.

This course can only be undertaken as a sequel to the course PHYS340 Research Project - Part 1.

Neither PHYS340 nor PHYS341 can count for credit as single courses.

Assumed Knowledge: PHYS320 and PHYS328. Possibly some specific mechanical engineering courses for projects chosen from Mechanical Engineering.

PHYS3500 Adv. Electromagnetism for Scientists and Engineers
Unit Value: 10

Not to count with PHYS2150, PHYS3270, PHYS3500 or ELEC4540.

The purpose of this course is to provide an understanding of the physical laws which govern the behaviour of electric and magnetic fields, and their direct application to the area of communications. These laws are fundamental to the implementation of many technologies in electrical, computer and telecommunications engineering and are, in particular, essential for a deep understanding of information transmission via wired links, radio channels, and optical fiber networks.

Assumed Knowledge: PHYS1130, PHYS1140 and MATH2010, or equivalent.

PHYS4110 Physics Honours 411
Unit Value: 20

The Honours Program in Physics is designed to give students an advanced understanding of the fundamentals of modern physics, as well as exposure to the current research interests in Physics within the School which are Surface Physics, Near-Earth Space Physics, Solid State Physics and Medical Physics. Physics Honours comprises 115 hours of lectures which must include the three (15 lecture hour) compulsory core topics Quantum Mechanics, Solid State Physics and Plasma Physics, and 70 lecture hours made up from a range of 10 lecture optional topics. Students also undertake a research project under the supervision of an academic member of staff.

Assumed Knowledge: A major in Physics with a Credit grade average in at least 40 credit points of 300 level physics subjects.

PHYS4210 Physics Honours 421
Unit Value: 20

The Honours Program in Physics is designed to give students an advanced understanding of the fundamentals of modern physics, as well as exposure to the current research interests in Physics within the School which are Surface Physics, Near-Earth Space Physics, Solid State Physics and Medical Physics. Physics Honours comprises 115 hours of lectures which must include the three (15 lecture hour) compulsory core topics Quantum Mechanics, Solid State Physics and Plasma Physics, and 70 lecture hours made up from a range of 10 lecture optional topics. Students also undertake a research project under the supervision of an academic member of staff.

Assumed Knowledge: A major in Physics with a Credit grade average in at least 40 credit points of 300 level physics subjects.

PHYS4220 Physics Honours 422
Unit Value: 20

The Honours Program in Physics is designed to give students an advanced understanding of the fundamentals of modern physics, as well as exposure to the current research interests in Physics within the School which are Surface Physics, Near-Earth Space Physics, Solid State Physics and Medical Physics. Physics Honours comprises 115 hours of lectures which must include the three (15 lecture hour) compulsory core topics Quantum Mechanics, Solid State Physics and Plasma Physics, and 70 lecture hours made up from a range of 10 lecture optional topics. Students also undertake a research project under the supervision of an academic member of staff.

Assumed Knowledge: A major in Physics with a Credit grade average in at least 40 credit points of 300 level physics subjects.

POLI1010 Australian Politics and Government
Unit Value: 10

Introduces the student to key concepts in political science, the character of political activity, and the functions of government in Australia. The course explains the nature of the Australian political institutions, explores the operation of the Australian political system, and studies the relationship between the political actors and political activity in Australia. Topics discussed include Australia's changing political and governmental institutions (the constitution, parliament, the High Court, political parties, pressure groups, and the bureaucracy). Key political concepts discussed include "citizenship", "the state" and "power". Lectures will also be available on the Web.

Contact hours: 3 hours per week

Assumed Knowledge: Nil

POLI1020 Introduction to Politics
Unit Value: 10

Introduces students to key concepts and ideas in the study of politics. Political traditions such as liberalism, democracy, nationalism, Marxism, and totalitarianism are studied in relation to specific political systems. The course also introduces students to other political issues such as the role of rights and citizenship within politics. The contemporary transformation of politics due to the influence of the media and globalisation is also looked at. This course is intended to give students a broad overview of the study of politics at an introductory level. Lectures will also be available on the Web.

Contact hours: 3 hours per week

Assumed Knowledge: Nil

POLI2020 Foundations of Modern Politics
Unit Value: 10

Examines some of the most important political theories and ideas which have influenced the practice of politics within political cultures, and revolutions in modern society. Political theorists that may be studied include Machiavelli, Hobbes, Locke, Marx, Mill, Bakunin, Baudrillard and Foucault. Political theories that may be studied include liberalism, social democracy, feminism, anarchism, conservatism, and postmodernism. This course is designed to give students a thorough understanding of the major intellectual theories and ideas which provide the foundations for contemporary political debate and conflict. Lectures will also be available on the Web.

Assumed Knowledge: 10 units in Politics at 1000 level or 30 units

POLI2030 Politics and Power in Asia
Unit Value: 10

Examines political change in Asia. This involves a comparative study of selected Asian countries, focussing on issues which may include: colonialism, the rise of nationalism and the creation of new nation-states, political protest, human rights, and other processes of political change. Also themes concerning the political impact of globalisation and the political upheavals associated with the development of capitalism in the Asian region will also be considered. Lectures also available on the web.

Assumed Knowledge: 10 units in Politics at 1000 level or 30 units

POLI2110 Business and Government
Unit Value: 10

Provides students, and business students in particular, with a broad understanding of the interactions and interdependencies between business and government, with particular reference to Australia. The course will examine, from a political science perspective, those aspects of the political environment which shape business-government relations. While a range of theoretical issues, including the ideologies shaping the relationship between business and government, the character of the structural interdependency of business and government in liberal capitalist societies, and the question of business ethics and government regulation, will be addressed, particular attention will be paid to the practical realities of the business-government relation and the ways in which the relationship between business and government operates; in particular, the issue of political lobbying.

Assumed Knowledge: POL101 Australian Politics and Government
Challenging Political Discourses

Unit Value: 10

Examines the development of a distinctly feminist approach to political theory. The contributions of various feminist thinkers ranging from Mary Wollstonecraft in the 18th century to the post-modern varieties of feminism in the late 20th century will be examined, as well as their critiques of and challenges for mainstream political theory. Primary emphasis will be given to the conceptual development of feminist political ideas, especially concepts such as ‘patrician’, ‘sex’ and ‘gender’ and the ways in which they help shape our conceptions of politics, power, citizenship, human nature and nature. The major mode of delivery will be in lecture format.

Assumed Knowledge: 10 units in Politics at 100 level or have obtained 30 units in a degree.

Politics and Power in Asia

Unit Value: 10

Examines political change in Asia. This involves a comparative study of selected Asian countries, focusing on issues which may include: colonialism, the rise of nationalism, and the creation of new nation-states, political protest, human rights, and other processes of political change. Also themes concerning the political impact of globalization and the political upheavals associated with the development of capitalism in the Asian region will also be considered. Lectures also available on the web.

Assumed Knowledge: 10 units in Politics at 1000 level or 30 units in a degree.

Business and Government

Unit Value: 10

Provides students, and business students in particular, with a broad understanding of the interactions and interdependencies between business and government, with particular reference to Australia. The course will examine, from a political science perspective, those aspects of the political environment which shape business-government relations. While a range of theoretical issues, including the ideologies shaping the relationship between business and government, the character of the structural interdependence of business and government in liberal capitalist societies, and the question of business ethics and government regulation, will be addressed, particular attention will be paid to the practical realities of the business-government relation and the ways in which the relationship between business and government operates; in particular, the issue of political lobbying.

Assumed Knowledge: POL101 Australian Politics and Government

Challenging Political Discourses

Unit Value: 10

Examines the development of a distinctly feminist approach to political theory. The contributions of various feminist thinkers ranging from Mary Wollstonecraft in the 18th century to postmodern varieties of feminism in the late 20th century will be examined, as will their critiques of and challenges for mainstream political theory. Primary emphasis will be given to the conceptual development of feminist political ideas, especially concepts such as ‘patrician’, ‘sex’ and ‘gender’ and the ways in which they contribute to conceptions of politics, power, citizenship, human nature and nature. The major mode of delivery will be in lecture format.

Assumed Knowledge: 10 units in Politics at 100 level or 30 units in a degree.

Politics of Rights

Unit Value: 10

Focuses on rights as a source of political conflict and influence within liberal democracies. Liberal democracies uphold the ideal of rights as a basis for resolving disputes between different sections of society. Rights are also central to disputes between the individual and society. Above all, rights are politically contested, and therefore are associated with processes of political power. All of these issues will be focused on in this course.

Assumed Knowledge: Approved entrance into Honours

Research Thesis

Unit Value: 40

This course is the research thesis component of the Honours degree in Politics. It will entail independent research by the student in consultation with his/her supervisor.

Assumed Knowledge: Students taking this course will have met the requirements for admission into the Honours program in Politics.

Political Discourses of Toleration

Unit Value: 10

Examines a number of key discourses on toleration. The primary emphasis will be on examining the various ways in which (a) toleration is defined, and (b) individuals and communities are included or excluded within particular political regimes of tolerance. Of equal importance will be the question of political dissent and the boundaries within which dissent is deemed to be legitimate. In addition to a close reading of several key classic texts, students will also be encouraged through the use of case studies, to examine contemporary issues and the discourses that frame them. This course will be taught in seminar mode.

Assumed Knowledge: Appropriate grade point average in Bachelor pass degree

Psychology Introduction 101

Unit Value: 10

Forms part of an Australian Psychology Society accredited sequence. Introduces the fundamental concepts of psychology. We introduce the study of behaviour by looking at the development of human behaviour. We then examine the role of cultural influences on behaviour and personality before introducing concepts of normal and abnormal behaviour.

Assumed Knowledge: NIL

Psychology Introduction 102

Unit Value: 10

Forms part of an Australian Psychological Society accredited sequence.

Extends the knowledge base gained in PSYC1010, but with a focus on the underlying mechanisms of behaviour, basic processes such as sensation, perception, motivation and learning and memory are examined in relation to nervous system structure and the history and research methods applicable to these areas.

Assumed Knowledge: PSYC1010

General Psychology

Unit Value: 10

This subject is not part of an Australian Psychology Society accredited sequence.

As the content of PSYC103 overlaps with both PSYC101 and PSYC102, it cannot be taken with either subject. Introduces contemporary theories of human behaviour and adaptation, with some emphasis on their practical implications. It provides a general introduction for those who will study Health Psychology at 200 and 300 level and also provides students who do not intend to proceed further in Psychology to gain a general appreciation of psychology.

Contact hours: 3 hours of lectures and tutorials per week.

Assumed Knowledge: None

Pre-professional Psychology I

Unit Value: 10

Compulsory component of the integrated Bachelor of Psychology program, and is only available to students enrolled in the Bachelor of Psychology.

Provides students with an understanding of Psychological practice, the skills required to undertake it, and how the Bachelor of Psychology provides this training. Students will be informed by practicing psychologists about their understanding of what it means to be a psychologist. Video and problem-based materials will encourage students to explore their own understanding of Psychology, in workshops. Students will be encouraged to consider how they can make a personal contribution to the community, and opportunities to initiate such involvement will be supported.

Assumed Knowledge: Nil

Psychology Introduction 101

Unit Value: 10

Forms part of an Australian Psychological Society accredited sequence.

Examines psychological processes such as perception (in particular auditory perception), memory, selective attention and human information processing. Laboratory exercises are used to demonstrate these basic psychological processes.

Assumed Knowledge: PSYC1020

Experimental Methodology

Unit Value: 10

Forms part of an Australian Psychological Society accreditation sequence. Introduces univariate research designs and descriptive and inferential statistics. Statistical methods covered include z and t tests, one and two factor ANOVA, linear regression and correlation. Students are introduced to a statistics package with an emphasis on graphical and tabular analysis of data.

Contact hours: 4 hours per week.

Assumed Knowledge: PSYC102 or PSYC102C, SCIM101.

Introduction to Psychobiology

Unit Value: 10

Forms part of an Australian Psychological Society accredited sequence.

Examines the biological basis of psychology, including: neuroanatomy, psychobiology and neuroscience, and examining their relevance to psychology. The laboratory program aims both to embellish the lecture material, to cover additional practical topics, and to introduce students to research methods in psychobiology.

Contact hours: 4 hours of lectures, tutorials and pracs per week.

Assumed Knowledge: PSYC102 or PSYC102C.

Personality and Social Processes

Unit Value: 10

Forms part of an Australian Psychological Society accredited sequence.

Deals with issues including attitude change, perception of social situations, group decision-making and leadership structures, emphasising the development of relevant skills. Students also examine approaches to personality which have been influential in terms of theory, methodology and practical applications in clinical and occupational settings.

Assumed Knowledge: PSYC1020
PSYC2100 Developmental Psychology  
**Unit Value:** 10  
Deals with the development of perceptual, cognitive and social processes during infancy, childhood and adolescence. Topics include the development of object recognition, memory and categorisation, language, problem-solving, attachment, peer relations and social skills. Weekly laboratory sessions teach research and assessment skills in developmental psychology.  
**Assumed Knowledge:** PSYC1010, PSYC1020, and it is recommended that students also enrol in PSYC2070

PSYC2200 Pre-professional Psychology II  
**Unit Value:** 10  
This course is a compulsory component of the integrated Bachelor of Psychology program, and must be completed by all students in that program, and is only available to students enrolled in the Bachelor of Psychology.  
Consists of a series of lectures, workshops and practical sessions designed to provide students with an understanding of a number of critical issues in professional practice in Psychology. Basic management principles, program evaluation, self-regulation, ethical principles in practice and legal requirements for psychological service delivery will be described, and students will develop their own skills in these areas through practical experience.  
**Assumed Knowledge:** PSYC1200

PSYC2500 Introduction to Abnormal Behaviour  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Introduces abnormal behaviour, focusing on critical analysis of the categorisation of behaviour. Students gain an introductory understanding of the nature of abnormal behaviour, including characteristics, symptoms and aetiology. Also includes methods of behaviour evaluation and an introduction to therapeutic orientations and applications.  
Not to count with PSYC3760.  
**Assumed Knowledge:** PSYC1030 or PSYC1020

PSYC2720 Psychology for Occupational Therapy II  
**Unit Value:** 5  
This subject is not part of an Australian Psychological Society accredited sequence.  
Explores psychological issues relevant to the practice of occupational therapy. Topics may include the psychological aspects of pain and stress, grief and bereavement, and communication and compliance. Both phenomenological and practical domains of these topics are covered.  
Contact hours: 2 hours of lectures, tutorials and prac per week.  
**Assumed Knowledge:** PSYC103

PSYC2760A Psychology for MRT (Part A)  
**Unit Value:** 5  
This course is not part of an Australian Psychological Society accredited sequence.  
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  
Comprises two parts, with the first presenting an overview of lifespan development with relevance to the practice of medical radiation technology. The second focuses on normal human behaviour, providing a yardstick by which other behaviour may be determined as abnormal. The psychology of communication is also addressed.  
**Assumed Knowledge:** None

PSYC2760B Psychology for MRT (Part B)  
**Unit Value:** 5  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.  
This subject is not part of an Australian Psychological Society accredited sequence.  
Comprises two parts, with the first presenting an overview of lifespan development with relevance to the practice of medical radiation technology. The second focuses on normal human behaviour, providing a yardstick by which other behaviour may be determined as abnormal. The psychology of communication is also addressed.  
Contact hours: 2 hours of lectures, tutorials and prac per week.  
**Assumed Knowledge:** None

PSYC3010 Advanced Foundations for Psychology  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Presents advanced univariate research designs and inferential statistics. Statistical methods covered include binomial and Chi Squared tests of frequency data, advanced ANOVA, multiple linear regression, the General Linear Model and an introduction to Factor Analysis. Students receive comprehensive training in the use of a statistical package in order to analyse and present findings.  
**Assumed Knowledge:** PSYC207

PSYC3030 Advanced Basic Processes 1  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Examines processes in psychology including such topics as cognitive human memory, psychophysiology, decision making, categorisation and perception.  
Contact hours: 4 hours per week  
**Assumed Knowledge:** (PSYC202 or PSYC202C) and (PSYC207 or PSYC207C)

PSYC3040 Advanced Basic Processes 2  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accreditation sequence.  
Deals with advanced topics in behavioural neuroscience and psychobiology. Lecture material will be complemented by a tutorial program aimed at facilitating discussion about advanced research methodology.  
Contact hours: 4 hours per week  
**Assumed Knowledge:** (PSYC207 or PSYC207C) and (PSYC208 or PSYC208C)

PSYC3050 Individual Processes  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Examines applications of psychology to health and well-being issues that are commonly dealt with by psychologists. One major stream will deal with general health issues and major illnesses while the other stream will deal with human sexuality.  
**Assumed Knowledge:** PSYC2070

PSYC3070 Advanced Applied Topics in Psychology 1  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Callaghan:  
Examines the theory and practice underlying the design and construction of psychological tests (ability and personality), questionnaires and interviews. A variety of testing materials, questionnaires and interview types are introduced in lectures, and also in practical sessions which provide basic training in their design, construction, administration and interpretation.  
Central Coast:  
Examines the theory underlying psychological test construction, and introduces a range of psychological tests through practicum sessions which provide training in test administration and interpretation. The underlying basis of interviewing as an assessment technique is studied and students are trained in a variety of interviewing techniques.  
Contact hours: 4 hours per week  
**Assumed Knowledge:** PSYC207

PSYC3080 Topics in Psychopathology and Neuropsychology  
**Unit Value:** 10  
Topics in Psychopathology and Neuropsychology provide advanced material in the use of diagnostic criteria for the diagnosis of organic and non-organic (psychosis) abnormal behaviour. It builds on basic material presented in PSYC250 (Introduction to Abnormal Behaviour) with a primary focus on psychosis and on the distinction between abnormal psychopathology from disease and from organic brain damage from trauma or disease.  
**Assumed Knowledge:** PSYC101, PSYC102, PSYC250, PSYC202

PSYC3090 Topics in Neural Science  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
Explores the neural basis of behaviour and examines the mechanisms responsible for neural processing. It is based around a number of specialised topics in neuroscience. These topics are studied at the systems level and at a cellular and molecular level, and include applications in clinical neuropsychology. Includes hands-on practical work in research laboratories in the neurosciences.  
**Assumed Knowledge:** PSYC3080 and PSYC3070

PSYC3100 Social and Organisational Psychology  
**Unit Value:** 10  
Forms part of an Australian Psychological Society accredited sequence.  
This subject is divided into three components: social processes, motivation and organisational psychology. Topics include group dynamics, social psychology of consumer decision-making and employment; motivation for work, career motivation, organisational structure, task analysis, and the self at work.  
Contact hours: 4 hours per week  
**Assumed Knowledge:** (PSYC207 or PSYC207C) and (PSYC209 or PSYC228C)
PSYC3110  Associative Learning  
**Unit Value:** 10

Forms part of an Australian Psychological Society accredited sequence.  

Examines recent theoretical developments in the studies of perception and associative learning. Perceptual processes are examined with respect to biologically based, spatial, structural, computational or ecological theories of perception. Implications in Learning theories for applied and clinical psychology in such areas as addictive and attachment behaviour are considered, as well as the relationships between associative learning, connectionist modelling and psychology.  

**Assumed Knowledge:** PSYC2070

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PSYC3120  Research Project Design  
**Unit Value:** 10

Forms part of an Australian Psychological Society accredited sequence.  

Consists of an extensive review of the literature in an approved research area, the derivation of research hypotheses, and the design of a study to test these hypotheses. Students are required to master analytical and ethical procedures required for the collection and analysis of behavioural data. This course is intended as preparation for undergraduate honours.  

**Assumed Knowledge:** PSYC2070 and PSYC3010

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PSYC3130  Advanced Developmental Psychology  
**Unit Value:** 10

PSYC3130 is part of an APS accredited sequence and is a compulsory course in the BPsych.  

Deals with the development of physical, perceptual, cognitive and social processes during infancy and childhood, adolescence and adulthood. Specific topics may include, for infancy and childhood, such issues as the development of object recognition; memory and categorisation; language; problem-solving; attachment; peer relations, and social skills. For adolescence, such topics as physical, cognitive and moral development; personality and social development. For adulthood, such topics as family and occupation development; mental health and aging, and the psychological impact of retirement. Weekly laboratory sessions teach research and assessment skills in developmental psychology.  

**Assumed Knowledge:** PSYC210 not to count with PSYC3130.  
**Assumed Knowledge:** PSYC101, PSYC102, PSYC207, PSYC209, PSYC207

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PSYC3200  Pre-professional Psychology III  
**Unit Value:** 10

This subject is a compulsory component of the integrated Bachelor of Psychology program, and must be completed by all students in that program. The subject consists of lectures and tutorial sessions to be conducted by academic staff and tutors of the program, and must be completed by all students in that program. The subject consists of an extensive review of the literature in an approved research area, the derivation of research hypotheses, and the design of a study to test these hypotheses. Students are required to master analytical and ethical procedures required for the collection and analysis of behavioural data. This course is intended as preparation for undergraduate honours.  

**Assumed Knowledge:** PSYC2070 and PSYC3010

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PSYC3720  Psychology for Occupational Therapy III  
**Unit Value:** 5

For students in the B.Heath Sc (Occ Therapy).  

This subject is not part of an APS accredited sequence in psychology.  

Focuses on the role of psychological processes in the maintenance of well being, and the manner in which psychological dysfunction can be a consequence or precipitant of impaired productivity.  

**Contact hours:** 2 lecture hours per week.  
**Assumed Knowledge:** PSYC103

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PSYC3760  Psychology for Nutrition and Dietetics  
**Unit Value:** 5

This subject is not part of an Australian Psychological Society accredited sequence. Not to count with PSYC250.  

Explores the interface of psychology, nutrition, and dietetics while focusing on selected topics from theoretical and practical viewpoints. A central theme is the nutritionist and dietitian as a potential agent of change.  

**Contact hours:** 3 hours of lectures, tutorials and prac per week.  
**Assumed Knowledge:** Nil

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PSYC3790  Computer Methodology for Behavioural Sciences  
**Unit Value:** 10

This course is not part of an Australian Psychological Society Accredited sequence.  

This course provides students with the computing skills to use customisable software to develop experimental and simulation applications. Students will learn to use Visual Basic. This will allow them to develop and understand programming concepts in applications relevant to the Behavioural Sciences. Extensions of this knowledge will take place in modules designed for psychology applications. For example: the use of experimental laboratory software in such areas of psychology; developing web-based questionnaires and simulation software; issues in real time experimental control; or other relevant psychology applications. The course focuses on the application of programming to practical work such as experimental design, simulation and coursework. It is suited to students considering postgraduate work or wanting to move to a research-related professional environment in the psychology domain.  

**Assumed Knowledge:** Computing literacy such as that provided in SCIM1010 Computing for Science and literacy in psychology methods such as that provided in PSYC2070 Experimental Methodology

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PSYC4070  Advanced Topics in Psychology I  
**Unit Value:** 20

Forms part of an Australian Psychological Society accredited sequence.  

Comprises one quarter of the final year of the B(A)(Psych) or BSc(Psych) degree programs. Full-time students also enrol in PSYC408 and PSYC409. Part-time students must complete PSYC407 and PSYC408 in the first year of study and PSYC409 in the second.  

Consists of participation in two advanced seminars. One of these seminars (Interpersonal Communication or Professional Issues) is compulsory. The second seminar is chosen from a list of available options at the commencement of the semester of study. Depending upon demand, this may include a professional placement.  

2 x 2 hour seminars per week.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301, SCIM101. SCIM101 is also compulsory for students who commenced in 2000 or later.

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PSYC4080  Advanced Topics in Psychology II  
**Unit Value:** 20

Forms part of an Australian Psychological Society accredited sequence.  

Comprises one quarter of the final year of the B(A)(Psych) or BSc(Psych) degree programs. Full-time students also enrol in PSYC407 and PSYC409. Part-time students must complete PSYC407 and PSYC408 in the first year of study and PSYC409 in the second.  

Consists of participation in two advanced seminars. One of these seminars (Professional Issues or Interpersonal Communication) is compulsory. The second seminar is chosen from a list of available options at the commencement of the semester of study.  

**Contact hours:** 2 x 2 hour seminars per week.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301, SCIM101 is compulsory for students who commenced in 2000 or later.

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PSYC4090A  Research Project (Part A)  
**Unit Value:** 20

This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.  

Forms part of an Australian Psychological Society accredited sequence.  

Comprises one half of the final year of the B(A)(Psych) or BSc(Psych) degree programs. Full-time students also enrol in PSYC407 and PSYC408. Part-time students must complete PSYC407 and PSYC408 in the first year of study and PSYC409 in the second.  

Consists of the development, analysis, and presentation of a piece of original research, as well as the development of a research proposal. The project involves supervision from academic staff in Psychology.  

Consists of participation in two advanced seminars. One of these seminars (Professional Issues or Interpersonal Communication) is compulsory. The second seminar is chosen from a list of available options at the commencement of the semester of study.  

**Contact hours:** 1 x 2 hour seminar and 1 hour supervision per week (semester 1 only).  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301, SCIM101 is compulsory for students who commenced in 2000 or later.
PSYC4090B Research Project (Part B)  
Unit Value: 20

This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B. Forms part of an Australian Psychological Society accredited sequence. Comprises one half of the final year of the BA(Psych) or BSc(Psych) degree programs. Full-time students also enrol in PSYC407 and PSYC408. Part-time students must complete PSYC407 and PSYC408 in the first year of study and PSYC409 in the second. Consists of the development, analysis, and presentation of a piece of original research, under supervision from academic staff in Psychology.  
Contact hours: 1 x 2 hour seminar and 1 hour supervision per week (semester 1 only).  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301. SCIM101 is compulsory for students who commenced in 2000 or later.  

PSYC4110 Psychology Honours 411  
Unit Value: 20

Forms part of an Australian Psychological Society accredited sequence. One half of the Honours level coursework. Students will examine Advanced topics in psychology. Students complete the compulsory “Theoretical Issues” seminar and then (with PSYC421) 3 elective special topic seminar subjects. Each seminar provides depth of knowledge in a specific area, and overall PSYC411 and PSYC421 provide a broad view of Advanced Topics in Psychology.  
Contact hours: 2 x 2 hour seminars per week.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301. SCIM101 is compulsory for students who commenced in 2000 or later.  

PSYC4120 Psychology Honours 412  
Unit Value: 20

Forms part of an Australian Psychological Society accredited sequence. Is a 20 credit point thesis component of an 80 credit point Honours program in Psychology. The research component (PSYC412 and PSYC421) entails the development, conduct, analysis and reporting of a piece of original empirical research, presented as a thesis. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences.  
Contact hours: 1 hour weekly thesis supervision.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301. SCIM101 is compulsory for students who commenced in 2000 or later.  

PSYC4210 Psychology Honours 421  
Unit Value: 20

Forms part of an Australian Psychological Society accredited sequence. PSYC4210 is one half of the Honours level coursework. Students will examine advanced topics in Psychology. Students complete the compulsory “Theoretical Issues” seminar and then (with PSYC4110) 3 elective special topic seminar courses. Each seminar course provides a depth of knowledge in a specific area and overall PSYC4110 and PSYC4210 provide a broad view of Advanced Topics in Psychology.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 units of approved psychology courses in years 1, 2 and 3 and including PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 is compulsory for students who commenced in 2000 or later.  

PSYC4220 Psychology Honours 422  
Unit Value: 20

Forms part of an Australian Psychological Society accredited sequence. PSYC422 is a 20 credit point thesis component of an 80 credit point Honours program in Psychology. The research component (PSYC412 and PSYC422) entails the development, conduct, analysis and reporting of a piece of original empirical research, presented as a thesis. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences.  
Contact hours: 1 hour weekly thesis supervision.  
**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC101, PSYC102, PSYC207, PSYC301. SCIM101 is compulsory for students who commenced in 2000 or later.  

PUBH1060 HEALTH 1  
Unit Value: 5

This subject aims to provide students with a basis for understanding the concept of health and how the health of individuals can be assessed, analysed and improved. Students will be provided with the opportunity to develop an understanding of the components of health, methods of measuring health status of individuals, factors that influence health status and strategies for illness prevention and health improvement. There are 2 contact hours per week, one lecture and one tutorial.  
**Assumed Knowledge:** Students come to this course with a variety of academic and life experiences. We have found in recent years that the majority of students who have gained admission on the basis of their HSC have studied the 2 Unit Health & Physical Education subject. We have taken this level of knowledge to be the starting point for our curriculum, so as to build on existing knowledge and avoid repetition. We respect and value the different experiences that mature age students bring to the course and do not feel they are disadvantaged by this decision.  

PUBH2020 Foundation studs in Early Childhood Hlth & Policy  
Unit Value: 10

This subject aims to provide students with an understanding of the issues and concepts which are important in the health and physical education fields. It provides a foundation and context for future studies in education by examining relationships between health, education, teaching, child development, sport and physical activity. This subject will introduce future early childhood teachers to contemporary health and physical education issues that are relevant to children aged 0 - 8 years; approaches to health education, illness prevention and health promotion; and the promotion of physical activity both within and outside Early Childhood and Primary school settings. Further, it aims to provide a foundation for knowledge and skills that enable students to teach Early Stage 1 and Stage 1 of the NSW K-6 Personal Development, Health and Physical Education syllabus.  
**Assumed Knowledge:** Students come to this course with a variety of academic and life experiences. While some students will have studied the HSC 2 Unit Health & Physical Education subject, the majority, including mature-age students, will not have. Thus we have taken the Year 10 PD.HPE. syllabus level of knowledge to be the starting point for this subject. We respect and value the different experiences that mature-age students bring to the course and do not feel they are disadvantaged by this decision.  

PUBH2030 Foundation Studies in Health and Physical Education  
Unit Value: 10

This subject aims to provide students with an understanding of the issues and concepts which are important in the health and physical education fields. It provides a foundation and context for future studies in education by examining relationships between health, education, teaching, sport and physical activity. This subject will introduce future teachers to contemporary health and physical education issues that are relevant to primary school-aged children; approaches to health education, illness prevention and health promotion; and the promotion of physical activity both within and outside the primary school setting.  
**Assumed Knowledge:** Students come to this course with a variety of academic and life experiences. While some students will have studied the HSC 2 Unit Health & Physical Education subject, the majority, including mature-age students, will not have. Thus we have taken the Year 10 PD.HPE. syllabus level of knowledge to be the starting point for this subject. We respect and value the different experiences that mature-age students bring to the course and do not feel they are disadvantaged by this decision.  

PUBH2040 Health 2A  
Unit Value: 10

Builds on the knowledge and concepts addressed in BEHM106 - Health1 and aims to provide students with an opportunity to develop an understanding of issues and concepts which are important in the health and health education fields. A number of course modules will be covered throughout the year providing students with an opportunity to think both critically and creatively about health issues impacting on communities, particularly school communities and adolescents, and consider strategies for addressing them.  
**Assumed Knowledge:** BEHM106  

PUBH2300 PERSONAL DVLPMNT & HLTH ISSUES IN THE PRIMARY SCH  
Unit Value: 10

This subject aims to extend students’ knowledge and skills in selected areas of the K6 PD and Health syllabus. In particular this subject will explore personal development and health concepts that are contained in syllabus strands of Interpersonal Relationships, Growth and Development, Personal Health Choices, Safe Living. There will be an emphasis on teaching sensitive issues such as sexuality, child protection, loss and change and drug education.  
**Assumed Knowledge:** Foundation Studies in Primary Health and Physical Education

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PUBH2400  Bioethics and Law
Unit Value:  10
The course is structured around real issues faced by laboratory workers and provides practical experience through the preparation of a research ethics application as well as ethical/legal analysis of practical scenarios.  
Assumed Knowledge: none.

PUBH3040  Health IIIA
Unit Value:  10
This course is the third and final course in the Health strand of the double degree - Bachelor of Teaching (Health & Physical Education) and Bachelor of Health and Physical Education. It’s purpose is to provide students with the opportunity to develop and apply knowledge and skills in the personal Development curricula as well as expand on the knowledge and skills gained in BEHM104 and BEHM204 in promoting the health of students in the school using a whole school approach. A range of sensitive issues within the PD and Health curriculum will be covered.  
Assumed Knowledge: BEHM 204.

SANS1010  Elementary Sanskrit I
Unit Value:  10
Introduces students to the study of Ancient Sanskrit, the language of numerous ancient Indian religious and secular texts, and vital for studying the development of Indo-European languages. Reading in the original language is accompanied by basic grammatical and syntactical instruction.  
Contact hours: 4 hours per week  
Assumed Knowledge: None.

SANS1020  Elementary Sanskrit II
Unit Value:  10
Further instructs students in the study of Ancient Sanskrit, the language of numerous ancient Indian religious and secular texts, and vital for studying the development of Indo-European languages. Reading in the original language is accompanied by basic grammatical and syntactical instruction.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT101 or equivalent.

SANS2010  Advanced Sanskrit I
Unit Value:  10
An intermediate course in Sanskrit language suitable for those who have completed SKT102, and concentrating on the Vedas.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT102

SANS2020  Advanced Sanskrit II
Unit Value:  10
A further study of Sanskrit, based on Upanishadic texts, and involving composition in Sanskrit in dialogue form, and study of the doctrinal problems and cultural pressures of the Upanishadic age.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT201

SANS3010  Sanskrit Literary Studies I
Unit Value:  10
Further study of the Sanskrit Language as appropriate for students at the 300 level, concentrating on in-depth study of hymns from the Rig-Veda.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT201 and SKT202

SANS3020  Sanskrit Literary Studies II
Unit Value:  10
Further study of the Sanskrit Language as appropriate for students at the 300 level, concentrating on in-depth study of the philosophic texts of the Upanishads.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT201 and SKT202

SANS3220  Extended Sanskrit Studies
Unit Value:  20
Involves the study of the great Gupta era Kavya poet Kalidasa as dramatist and/or lyricist in the original texts.  
Contact hours: 4 hours per week  
Assumed Knowledge: SKT201 and SKT202 or equivalent.

SCIM1010  Computing for Science
Unit Value:  10
Emphasizes the use of computer applications such as word processing, databases, spreadsheets, presentations and statistical packages and relates these to scientific situations. It introduces hardware and software technology and provides experience using library and information networks including information retrieval and communications. Web page literacy and creating and designing web pages are also part of this subject.  
Contact hours:  
Assumed Knowledge: There is no assumed knowledge.

SCIM2010  Science on the Internet
Unit Value:  10
Aims to provide students with knowledge of the World Wide Web (WWW) so that they can obtain, present and analyse scientific data over the Internet, and keep abreast of developments in the use of the Internet and in Internet-related technology. The subject considers the basic physics behind the WWW, examines the use of the WWW to present scientific information and access remote experiments, and critically evaluates the use of the Internet as a science communication tool. A hands-on approach is taken, including designing and developing interactive pages. This subject is important to students who expect to use the Internet as part of their career in science and technology.  
All lectures, laboratories and related material are available on the Web.  
Contact hours: 1 lecture hour and 2 tutorial hours per week, and 30 laboratory hours  
Assumed Knowledge: There is no assumed knowledge for this subject.
<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Unit Value</th>
<th>Contact Hours</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENG1100</td>
<td>Introduction to Software Engineering 1A</td>
<td>10</td>
<td>6 hours per week</td>
<td>Nil</td>
</tr>
<tr>
<td>SENG1110</td>
<td>Introduction to Software Engineering 1</td>
<td>10</td>
<td>6 hours per week</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG1120</td>
<td>Introduction to Software Engineering 2</td>
<td>10</td>
<td>6 hours per week</td>
<td>SENG111</td>
</tr>
<tr>
<td>SENG2050</td>
<td>Introduction to Web Engineering</td>
<td>10</td>
<td>5 hours per week</td>
<td>SENG111 (and COMP105 preferred)</td>
</tr>
<tr>
<td>SENG2100</td>
<td>Software Analysis and Verification</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG112</td>
</tr>
<tr>
<td>SENG2110</td>
<td>Software Process</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
</tr>
<tr>
<td>SENG2120</td>
<td>Advanced Software Engineering</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
</tr>
<tr>
<td>SENG3120</td>
<td>Object Oriented Software Engineering</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG212</td>
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<tr>
<td>SENG3130</td>
<td>Concurrent Programming</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
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<tr>
<td>SENG3300</td>
<td>User Interface Design</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
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<tr>
<td>SENG3380</td>
<td>Concurrent Programming</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
</tr>
<tr>
<td>SENG3390</td>
<td>Software for Distributed Environments</td>
<td>10</td>
<td>4 hours per week</td>
<td>SENG211</td>
</tr>
</tbody>
</table>

**SCIM2030 Foundations of Science and Technology**
- Introduces students in the BTeach/BArts (Primary) program to the study of science and technology.
- Assumed Knowledge: There is no assumed knowledge

**SCIM2040 Science and Technology Applications**
- Students will be introduced to a range of fundamental scientific and technological principles and given the opportunity to demonstrate their understanding of these through the application of a broad range of materials using design and construction procedures.
- Assumed Knowledge: SCIM203 Foundations of Science and Technology.
This subject is Part A of a multi-term sequence, Part B must also be completed to meet the requirements of the sequence.

Provides students in the Bachelor of Engineering (Software Engineering) course industrial practice by involvement in a major group software project in the final year of the degree. The students will work in teams of 3 to 5 to build a large software system that solves a real industrial problem.

Contact hours: By arrangement

Assumed Knowledge: SENG311, SENG312

SENG4210B Software Engineering Project Part B
Unit Value: 20

Part B of multi-term sequence.

Part A must be successfully completed before undertaking Part B.

Provides students in the Bachelor of Engineering (Software Engineering) course industrial practice by involvement in a major group software project in the final year of the degree. The students will work in teams of 3 to 5 to build a large software system that solves a real industrial problem.

Contact hours: By arrangement

Assumed Knowledge: SENG311, SENG312

SENG4420 Software Architecture
Unit Value: 10

This subject examines important current issues in software architecture and design. We study a number of architectural styles, focusing on strengths and weaknesses of each. Case studies are used extensively to show how architectural styles are used in various application areas. We look at ways of codifying and sharing software design knowledge. Students are required to design and implement software systems, as well as write a paper and/or give presentations surveying the state of research in some area of software architecture.

Contact: 2 hours per week

Assumed Knowledge: SENG311, SENG312 and permission of Head of Department

SOCA1010 Society and Culture: A Sociological Introduction
Unit Value: 10

Introduces students to the sociological perspective through an exploration of contemporary social and cultural issues. Topics may include: socialisation and identity, sex and gender, race and ethnicity, class and social inequality, globalisation and work, deviance and social control, and media and popular culture. Key sociological concepts and theories are used to examine social patterns, social action and social change.

Assumed Knowledge: None

SOCA1020 Introduction to Social and Cultural Anthropology
Unit Value: 10

Introduces students to Social and Cultural Anthropology. The course introduces: the history of anthropology and of anthropological thought; the nature of anthropological fieldwork; some of the main areas of ethnographic specialisation within the School of Social Sciences (e.g. Melanesia, Aboriginal Australia, South Asia, Islamic societies in Southeast Asia); and examines how the study of other cultures and societies can help us deal with urgent problems confronting today's world.

Assumed Knowledge: SOCA1010, SOCA1010C or equivalent

SOCA1200 Health Sociology I
Unit Value: 10

Aims to provide students with a sociological understanding of the social context of health and illness. Students examine why health inequalities exist between social groups in Australia and how these inequalities may be addressed; and the dominant role of medicine in shaping notions of health and illness, the delivery of health care, and relations with allied and alternative health professions. Specific topics may include: the social distribution and social construction of health and illness in terms of class, gender, ‘race’ and ethnicity; a comparison and critique of the biomedical model and social model of health; the medicalisation of deviance and the sociology of health promotion.

Assumed Knowledge: Not applicable

SOCA2010 History of Sociological Thought
Unit Value: 10

Looks at classical and more recent sociological theory of the kind mostly used in the Sociology and Anthropology department. Concentrates on the works of four key thinkers: Marx, Weber, Firestone and Foucault. Marx and Weber are two founders of conflict theory in sociology. The two more recent writers are Firestone, as a representative and important writer within second wave feminism, and Foucault as the originator of the poststructuralist position. Please note that either SOCA201 or SOCA203 is required for Honours entry.

Contact hours: 1 hour lecture and 1 hour tutorial per week

Assumed Knowledge: 20 units SOCA 100 level courses or equivalent

SOCA2030 Sociology of Work
Unit Value: 10

Aims to provide students with a sociological understanding of work and considers the range of social factors that shape the availability, organisation and experience of work. Specific topics covered include: work transformation debates such as McDonaldisation, post-bureaucratisation, post-industrialism and post-Fordism; the impact of globalisation; the public sector labour process; gender and work (paid and unpaid); the implications of ‘race’ and ethnicity for the experience of work; the social context of occupational health and safety; the role of unions and professions; unemployment and the future of work.

Assumed Knowledge: 20 units SOCA 1000 level courses

SOCA2040 Theory & Practice of Social Research
Unit Value: 10

Gives students an understanding of the major sociological research traditions and skills in the critical assessment of sociological research. This entails an exploration of the relationship between theoretical debates and the methods and practices followed by researchers in the production of knowledge. Students will be introduced to quantitative and qualitative research techniques. They will examine how these contribute to the development of theoretical knowledge. The course aims to encourage a theoretically informed and reflexive view of sociological and ‘scientific’ knowledge, the research process, research ethics, and the social role of researchers.

Assumed Knowledge: 20 units SOCA 1000 level courses

SOCA2050 Anthropological Analysis
Unit Value: 10

Introduces students to major thinkers who have developed Anthropological analyses of cultural differences. Students will be introduced to a history of changing theories and methods used in classic and contemporary anthropological accounts. By comparing studies of unfamiliar societies with studies of societies that are more familiar, students will explore how different theories and methods reveal different aspects of social existence - namely, the different ways society and culture are organised. The course is designed as an introduction to the School’s other offerings in anthropology.

Please note that either SOCA2010 History of Sociological Thought, SOCA2040 Theory and Practice of Social Research, or SOCA2050 Anthropological Analysis is required for Honours entry.

Assumed Knowledge: SOCA1020 or equivalent

SOCA2080 Media and Society
Unit Value: 10

Looks at popular media within a sociological and cultural studies framework. The key question examined is whether popular media is a form of dominant ideology. Does the media serve the interests of ruling social classes in society? Does the media serve the interests of men as a ruling group and disadvantaged women? Considers a wide variety of media forms, such as advertising, popular TV dramas and popular films, romance novels and fashion.

This course may be taken as part of the interdisciplinary Cultural Studies Major. It can also be taken as a Group Two subject in the BA (Communication Studies).

Assumed Knowledge: 10 units Group A courses or equivalent

SOCA2090 Modernities and Masculinities
Unit Value: 10

Explores the emergence of masculinities in western society during the past one hundred years, and examines the idea there is a determinate relation between ‘masculinity’ and sex roles/sexual identities. This historical construction of men’s sexual-political identities is discussed in the context of modern processes, institutions and structures (the household, the economy, the polity, militarism and consumerism). The notion of a ‘dominant’ masculinity is counterposed by the differences between men which have been institutionalised in the modern state, rationalised in bureaucratic interventions and legitimated in cultural discourses which have produced a diffusion of ‘regulated’, ‘subordinated’ and ‘marginalised’ masculinities and male bodies.

Contact hours: 2 hours per week

Assumed Knowledge: SOCA101 and SOCA102; or SOCA110; or GEND102.

SOCA2160 Youth Culture
Unit Value: 10

Provides a theoretical understanding of contemporary youth culture. It moves between examination of theoretical material on youth culture, and empirical accounts of youth cultures. A primary focus will be on the intersection of urban youth culture, class and gender in Australia. Also considered are some accounts of contemporary youth cultures in other countries.

Assumed Knowledge: 10 units SOCA1000 level courses or equivalent
SOCA2170  Ethnicity and Migration Studies in Australia  
Unit Value: 10  
Explores the nature of Australia’s cultural diversity. It includes four broad areas: immigration policy, immigration debate, the politics of cultural recognition and ethnic youth studies. The first section covers assimilation, integration and multiculturalism. The second looks at the immigration debate and its concerns with the ‘Asiatisation of Australia’, the rise of Pauline Hanson and Australia’s national identity. The politics of cultural recognition, its impact on Reconciliation and the demands on the national state represents the third section. A focus on ethnic youth and the recent research on ethnic gangs in Australia makes up the last strand.  
Assumed Knowledge: 20 units SOCA 1000 level courses or equivalent

SOCA2180  A Sociology of Death and Dying  
Unit Value: 10  
Death is a universal individual fate, but understandings of, and responses to, death and dying are embedded within particular social and cultural milieus. Students are introduced to various perspectives in order to broaden sociological knowledge and to explore uniquely modern experiences and responses to the universality of death and dying. Themes include the historical processes of secularisation, medicalisation and globalisation; the broad and continually changing medical and health contexts, and emerging ethical and existential questions which are becoming of central concern as we enter the 2000s.  
Assumed Knowledge: SOCA1010, SOCA1200 or equivalent

SOCA2190  Sociology of Health & Illness  
Unit Value: 10  
Provides a sociological analysis of health and illness in contemporary western industrialised societies. The main focus is on the range of social inequalities which determine health status and access to health care. The role of class, gender, ‘race’, ethnicity, age, and work will be explored in relation to the broad distribution of health and illness.  
Assumed Knowledge: 20 units of SOCA 1000 level courses

SOCA2240  Democracy, Politics & Power  
Unit Value: 10  
Introduces the historical development of modern liberal nation-states within the context of an international order. It focuses on the political ideologies and institutions that characterise such states and explores the relationships between political power, class, gender and ethnicity. Specific issues to be covered include citizenship, civil society, forms of state intervention and contemporary political and social movements. It explores the question of whether Australia developed as a liberal nation-state within the context of British colonialism. It then explores a range of significant issues for the Australian political system.  
Assumed Knowledge: 20 units SOCA 1000 level courses or equivalent

SOCA2250  Crime and Society  
Unit Value: 10  
Focuses critically on themes and issues in criminal justice, criminology and the sociological understanding of crime. Examples are taken from history and contemporary debates regarding the origins of criminology as a subject matter, the regulation of the ‘dangerous classes’, public space and the rise of modern policing, the criminalisation of indigenous Australians, violence against women, masculinities and violence, hate crimes directed against racial and sexual minorities, juvenile offending, crime and drug use, imprisonment and changing forms of social surveillance in industrialised nations.  
The mode of delivery is internal.  
Assumed Knowledge: SOCA1010 Society and Culture. A Sociological Introduction and either SOCA1020 Introduction to Social and Cultural Anthropology or GEN1020 Introduction to Gender Studies or equivalent

SOCA2320  Sociology of Food  
Unit Value: 10  
Aims to provide students with a sociological understanding of the social context of food and nutrition. Students examine the production, distribution and consumption of food to understand ‘why we eat the way we do’. Topics include: the causes of world hunger; the rise in popularity of vegetarianism; the environmental consequences of food production and consumption practices; debates over the genetic modification of food; the links between gender and food; the influence of social class and culture on food habits.  
Assumed Knowledge: SOCA1010, SOCA1020, SOCA1200 or equivalent

SOCA2370  Ethnography in the City:Culture & Difference  
Unit Value: 10  
Provides students with a solid grounding in the extensive field of research conducted under the rubric of urban anthropology or sociology. The city has been a major focus of urban research: the object of study for planners and reformers in their zeal to make the city a governable space and as a distinctive social experience of both individuals and social groups. The purpose of this course is to explore the theoretical approaches that have sought to make sense of the city and to analyse the ethnographies that have documented the social world created by the city. Explores the theme that the city is differentiated from other forms of social life by the fact that we live in constant and close proximity to strangers.  
Assumed Knowledge: SOCA1010 and SOCA1020 or equivalent

SOCA2420  Health Sociology 2 (OT)  
Unit Value: 5  
Focuses on the social processes and structures that shape and influence health care processes and policies. It examines the role of the individual, the state and the market, as well as the role of health professionals, in the development of these practices and policies. As a result of the knowledge and insights gained in this course, students will develop an understanding of the tensions between the role of individuals, health care professions, and health care practices and policy context. This will enable them to participate more effectively in the formation and change of health care practices and policies both in relation to their patients and their practice.  
Assumed Knowledge: SOCA1200 Health Sociology 1

SOCA2480  Social Issues in Health Care  
Unit Value: 10  
Designed for students enrolled in the Bachelor of Medical Radiation Science. Sociology provides students with knowledge to understand the social forces shaping health care and health outcomes. A sociological perspective situates the Australian health care system within a broad, changing and globalising social context. Social relations within health care and emerging issues arising from medical technology are critically examined.  
Contact hours: 3 hours per week (non-clinical weeks)  
Assumed Knowledge: 20 units of MRTC courses

SOCA2610  Social Policy and the Welfare State  
Unit Value: 10  
Explores the theoretical and ideological underpinnings of social policy. Particular focus will be on the welfare state and its policies of redistribution, social provision and social justice. The course will survey key concepts and theoretical perspectives in the study of social policy and the welfare state. This will include market, social economy, feminist, poststructuralist and anti racist critiques of the welfare state in both a national and international context. The course will also involve an exploration of key political ideologies such as Conservatism, Liberalism and Democratic Socialism and related issues such as nationalisation and privatisation, economic rationalism, managerialism and social justice.  
Assumed Knowledge: 20 units of SOCA courses at 1000 level or equivalent

SOCA2630  Identity and Culture  
Unit Value: 10  
Provides an introduction to the sociological and anthropological study of identities and cultures. It looks at the global changes which have impacted on Australian culture since 1945 and at the diversity of cultures and identities in Australia today. Personal topics include cultures of belief, social classes as cultural groups, childhood and youth peer cultures, genders and sexualities, Aboriginal culture today, Australian nationalism, popular cultures, advertising and fashion. This is one of a number of courses offered to Primary double degree students as part of the KLA menu for Human Society and Its Environment. It also covers aspects of the Society and Culture syllabus for secondary schools.  
Assumed Knowledge: 10 units Group A 1000 level courses or equivalent

SOCA3060  Environment and Society  
Unit Value: 10  
Develops a sociological approach to environmental issues. Deals critically with environmental controversies within social science, within the environmental movement and within society at large. Key areas are environmental problems of present society, ecologically sustainable technologies and strategies for moving to a sustainable society; gender and the environment; indigenous peoples, Aborigines and the environment; deep ecology; socialist and anarchist approaches; the environment in developing countries. The course covers aspects of the Key Learning Area of Human Society and Its Environment for Primary and High School teachers.  
Assumed Knowledge: 10 units of SOCA 2000 level courses, or HIST1010, or equivalent.

SOCA3150  Discourses of Ethnicity  
Unit Value: 20  
Examines and analyses recent critical changes in the study of ethnicity and ethnic identity from both theoretical and empirical perspectives. It focuses on the constructed and relational nature of ethnicity and examines issues of image, representation, hybridity, liminality and the problematics of authenticity.  
Assumed Knowledge: 20 units at 2000 level in Sociology and Anthropology courses or equivalent

SOCA3440  Special topic  
Unit Value: 10  
Allows students with special reasons, or needs, to study a topic not currently offered by the School. The topic to be covered and the associated program of study is established by way of negotiation between students and a responsible member of academic staff. Enrolment is dependent upon the permission of the Head of School, and the availability of staff and resources.  
Assumed Knowledge: 40 units SOCA courses at 2000 level or equivalent
SOCA3610 Aboriginal Representations/Representing Aborigines
Unit Value: 20
Documents and analyses the meanings of the representations produced by Aborigines as well as the representations produced about them by the dominant society. Film will be integrated into an approach that explores the historical interaction between Aboriginal and Western representational forms. The course will begin by investigating the representational systems produced in traditional Aboriginal sociocultural systems and then explore their transformation under colonial contact. The course will also explore the new forms of Aboriginality that were produced on missions, cattle stations, urban areas and in the total institutions into which many Aborigines have been confined.
Assumed Knowledge: 20 units 1000 level courses. It is preferable that students have undertaken previous undergraduate courses in Anthropology, or courses in other disciplines that have dealt with either Aborigines, Australian society, or race relations.

SOCA3620 The Sociology of the Body
Unit Value: 20
Focuses on social and historical reconstructions of bodies, desires and sexualities in Western societies, and critically addresses how they have been categorised, managed, identified and represented during the past two centuries. Emphasis is placed upon how notions about ‘perfect’ and ‘imperfect’ bodies have been generated as corporeal and moral entities and legitimised through social scientific research, medical scientific practices and media representations, and how these interventions variously constructed knowledges about bodies and materialised them as objective physical and social objects. The critical perspective of the course examines how bodies are manufactured and produced by mundane storytelling about ‘the body’, measured against a range of historically contrived abject and peripheral bodies.
Assumed Knowledge: 20 units at SOCA 2000 level or equivalent

SOCA3710 Health, Healing and Social Power
Unit Value: 20
Critically examines the historical development and ascendancy of the biomedical paradigm as well as the role of the state in legitimating and reinforcing its dominance. The course explores the processes of medical dominance such as the medicalisation of social life and the individualisation of health issues. The main theories and concepts in the literature in this area will be critically examined and discussed. The course will also examine aspects of health care and social policy and draws on critical evaluations of the biomedical model of health and healing.
Assumed Knowledge: 20 units of SOCA courses at 2000 level or equivalent

SOCA3820 Health Sociology 3 (OT)
Unit Value: 5
Provides an introduction to sociological perspectives relating to mental health and illness. Social processes whereby human action comes to be viewed as pathological, the organisation of health care, and the involvement of health professionals, including Occupational Therapy, are all critically examined. The focus of the course complements the core studies and practical experiences of third year occupational therapy students.
Assumed Knowledge: Occupational Science 2420

SOCA3840 Citizenship and Globalization
Unit Value: 20
Explores the intersection of two key issues within political sociology - conceptions of citizenship and the impact of globalisation. Political perspectives on citizenship focus on the status of individual courses by virtue of their membership of nation-states as political communities. Arguably, globalisation has rendered this nation based understanding increasingly problematic both because of the challenge it poses to the status and sovereignty of nation-states and its capacity to constitute virtual communities that transcend the cultural and geographic bounds of ‘traditional’ political communities. Issues to be addressed include the impact of globalisation on national politics, cultural identity, socioeconomic inequality and political mobilisation.
Assumed Knowledge: 20 units of SOCA 2000 level courses Completion of SOCA 2340, Democracy Politics and Power is recommended.

SOCA3850 Indigenous Peoples of the Contemporary World
Unit Value: 10
Explores the contemporary socio-cultural, economic and political situation of indigenous peoples in the contemporary world. This course is divided into three complementary sections. Section 1 looks at definitions and parameters of ‘indigenous’ peoples and their overlap with ‘ethnic minorities’ and the concept of ‘fourth world nations’. Section 2 describes the different types of indigenous peoples’ struggles, for example struggles over land/marine rights, co-existence with settler migrant communities, independence and nationhood, and reclamation of pre-colonial political boundaries and entities. Section 3 presents case studies from Australasia, South east Asia and the Pacific. 20 units of 2000 level SOCA courses or equivalent
Assumed Knowledge: 10 cps SOCA 1000 level and 10 cps SOCA 2000 level courses or equivalent

SOCA3860 Animal Politics, Ethics and Society
Unit Value: 10
The relationship between human and non-human animals has emerged as a controversial social, moral and political issue of our time and therefore demands close attention. Drawing upon historical, sociological, political and economic perspectives, this course explores the evolution of the human-non-human animal relationship. Particular attention is paid to the strategic role played by philosophers and philosophers and political discourse in stimulating debate about the moral and social standing of non-human animals in modern society. Specific and controversial issues to be discussed include: the concept of animals as property and the societal mechanisms that maintain animals as property; the use, life and death of animals in education and research, including the history of vivisection; the formation of animal rights groups in Europe, the United States and Australia; ‘ecoterrorism’; and the impact of animal rights crusades on politics. The mode of delivery is internal and involves two hours face-to-face contact.
Assumed Knowledge: SOCA 101 or SOCA 102 or equivalent.

SOCA3870 Sociology of Australian Families
Unit Value: 10
Provides an introduction to the sociological study of the political and cultural aspects of Australian families. It focuses on the diversity of family patterns, setting the discussion of the social construction of families against a background of their historical and socio-economic features. Other emphases are family in the context of gender; the family and early childhood; families in multicultural Australia. Aboriginal families; families, social policies and...
Assumed Knowledge: 20 units 1000 level courses

SOCA3880 Karl Marx’s Revolutionary Thought
Unit Value: 10
Karl Marx (1818-1883) - the German scholar and revolutionary - was one of the most profound and influential thinkers in Western history. He is one of the few people who could credibly claim to have founded a human science and his ideas have probably had an unrivalled influence across the humanities and social sciences. This course will provide students with a comprehensive, detailed and critical analysis of Marx’s works. It will emphasise the systematic nature of his thought, the social and political context within which it formed, some of the critical debates and responses to his work, and its contemporary sociological relevance.
Assumed Knowledge: 20 units of SOCA courses or equivalent

SOCA3940 Special topic
Unit Value: 20
Allows students with special reasons, or needs, to study a topic not currently offered by the School. The topic to be covered and the associated program of study is established by way of negotiation between students and a responsible member of academic staff. Enrolment is dependent upon the permission of the Head of School, and the availability of staff and resources.
Assumed Knowledge: 20 units each of SOCA courses at 1000 and 2000 level

SOCA4090 Sociology and Anthropology Honours I
Unit Value: 20
The courses SOCA4090, SOCA4100, SOCA4110 and SOCA4120 must be studied in conjunction and together constitute the honours program in Sociology and Anthropology. The Honours program provides students in Sociology and Anthropology with a depth of study which is often necessary for pursuing a career in the disciplines, and for undertaking postgraduate research. Students who have distinguished themselves at 1000-3000 level and wish to explore advanced work in a sociological and/or anthropological field of study.
Assumed Knowledge: Students must have qualified for admission to the pass degree of B.A, B.Soc.Sci., or equivalent. The disciplines of Sociology and Anthropology require successful completion of at least 40 units of SOCA courses at 2000 level and 60 units of SOCA courses at 3000 level; attainment of a credit plus average in SOCA courses at 2000 and 3000 level; the successful completion of SOCA2010, SOCA2050 or SOCA2040, and SOCA3520; or equivalent, for entry to the Honours program.

SOCA4100 Sociology and Anthropology Honours II
Unit Value: 20
The courses SOCA4090, SOCA4100, SOCA4110 and SOCA4120 must be studied in conjunction and together constitute the honours program in Sociology and Anthropology. The Honours program provides students in Sociology and Anthropology with a depth of study which is often necessary for pursuing a career in the disciplines, and for undertaking postgraduate research. Students who have distinguished themselves at 1000-3000 level and wish to explore advanced work in a sociological and/or anthropological field of study.
Assumed Knowledge: Students must have qualified for admission to the pass degree of B.A, B.Soc.Sci., or equivalent. The disciplines of Sociology and Anthropology require successful completion of at least 40 units of SOCA courses at 2000 level and 60 units of SOCA courses at 3000 level; attainment of a credit plus average in SOCA courses at 2000 and 3000 level; the successful completion of SOCA2010, SOCA2050 or SOCA2040, and SOCA3520; or equivalent, for entry to the Honours program.
The disciplines of Sociology and Anthropology with a depth of study which is often necessary for pursuing a career in the disciplines, and for undertaking postgraduate research. It provides for students who have distinguished themselves at 100-300 level and wish to explore advanced work in a sociological and/or anthropological field of study.

Assumed Knowledge: Students must have qualified for admission to the pass degree of B.A, B.Soc.Sci., or equivalent. The disciplines of Sociology and Anthropology require successful completion of at least 40 units of SOCA courses at 2000 level and 60 units of SOCA courses at 3000 level; attainment of a credit plus average in SOCA courses at 2000 and 3000 level; the successful completion of SOCA2010, SOCA2050 or SOCA2040, and SOCA3520; or equivalent, for entry to the Honours program.

SOCA4120 Sociology & Anthropology Honours IV Unit Value: 20

The courses SOCA409, SOCA410, SOCA411 and SOCA412 must be studied in conjunction and together constitute the honours program in Sociology and Anthropology. The Honours program provides students in Sociology and Anthropology with a depth of study which is often necessary for pursuing a career in the discipline. The elective is a postgraduate research. It provides for students who have distinguished themselves at 100-300 level and wish to explore advanced work in a sociological and/or anthropological field of study.

Assumed Knowledge: Students must have qualified for admission to the pass degree of B.A, B.Soc.Sci., or equivalent. The disciplines of Sociology and Anthropology require successful completion of at least 40 units of SOCA courses at 2000 level and 60 units of SOCA courses at 3000 level; attainment of a credit plus average in SOCA courses at 2000 and 3000 level; the successful completion of SOCA2010, SOCA2050 or SOCA2040, and SOCA3520; or equivalent, for entry to the Honours program.

SPSW1010 Australian Welfare Policy Unit Value: 10

Provides an introduction to policy studies in social welfare. It aims to develop a critical understanding of the way in which social, political and economic forces have shaped the development of welfare provision in Australia. A recurring theme throughout the course is the critical analysis of inequality and structural disadvantage.

Contact hours: 3 hours per week

Assumed Knowledge: none

SPSW2010 Social Issues in Social Policy Unit Value: 10

Explores the social construction of social issues and social problems, and critically analyses government and non-government programmes and interventions seeking to address social issues and problems. The elective also examines the role and structure of the social and community services industry. The course contributes to the development of analytical and creative abilities directed towards making significant, original contributions to social policy and social change. The course is experienced-based and relies on student participation and active involvement in the exploration of theoretical ideas as applied to scenarios through group tasks and experiential learning activities.

Contact hours: hours per week

Assumed Knowledge: Any course at 100 level from the Faculty of Arts and Social Science.

SPSW2000 Youth Studies Unit Value: 10

Provides an introduction to conceptual ideas that influence perspectives on youth. The course explores the construction of the concept of youth and the political and social processes which give rise to inequality of young people. The elective provides the opportunity to look at the practice of youth work, and in particular, program development. The elective is designed to be interactive and experiential.

Contact hours: 3 hours per week

Assumed Knowledge: Any course at 100 level from the Faculty of Arts and Social Science.

SPSW2050 Human Rights, Advocacy and Social Change Unit Value: 10

Explores the inter-relationship between human rights, community advocacy and social change. Analyses the effectiveness of community advocacy strategies and examines how these influence structures, organisations and systems, including the legal system. Emphasis on practicalities and skills of being an activist and advocate. Considers the boundaries and limitations of direct and indirect social action. Critically analyses conventional theoretical models and explores Feminist Structural and Radical alternatives.

Assumed Knowledge: At least one of the following: SPSW1010; SPSW2010; or other course at 2000 level from the Faculty of Arts and Social Sciences.
SPTH1110 Speech Pathology Introduction 1  
**Unit Value:** 10  
This course is only available for students enrolled in the Bachelor of Speech Pathology.

Introduces students to the field of human communication disorders. An overview is presented of the nature of impairments, limitations on communication activities and the restrictions on participation in society which can arise in both children and adults.  The course provides an orientation to the speech pathology profession and provides an introduction to the process of clinical decision-making with regard to assessment and intervention for communication disorders. Students visit a speech pathology clinic for observation of services. The major modes of delivery are through lectures, tutorials, and small group learning activities.  
**Contact hours:** 5 topics per week  
**Assumed Knowledge:** Only students enrolled in the Bachelor of Speech Pathology are able to enroll in SPTH111.

SPTH1120 Speech Pathology Introduction 2  
**Unit Value:** 10  
Provides the foundation studies in child speech and language disorders. Students are introduced to the main types of speech and language disorders in children and the main methods of assessment and intervention for these disorders. Students continue their development of fundamental clinical skills, and deepen their understanding of the ethical and professional issues involved in the management of communication disorders. Students visit a speech pathology clinic providing services to clients with communication disorders.  
**Contact hours:** TBA  
**Assumed Knowledge:** SPTH111

SPTH2080 Clinical Practice  
**Unit Value:** 10  
Students undertake supervised face-to-face clinical experience with paediatric speech and language disordered caseloads. If available, caseload may include adults with fluency disorders, or with communication disorders relating to developmental disability. Clinical experience placements are usually in speech pathology student units either in community/hospital settings or in the Speech Pathology Service on-campus, and attendance for up to two days (8.30am - 5pm) each week may be required. One hour a week will be spent in tutorials on-campus to assist with the preparation for clinical placements and the facilitation of links between academic/clinical knowledge. Tutorials will also provide experience in developing a community education project.  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** SPTH111, SPTH112 ( Concurrent SPTH221)

SPTH2210 Speech Pathology in Education & Community Settings 1  
**Unit Value:** 10  
Focuses primarily on communication disorders typically seen within community health and education settings. Developmental language disorders in children are dealt with at an advanced level for both assessment and treatment. Audiological assessment and diagnosis of hearing and the implications for communication of hearing impairment in children and adults are also studied.  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** SPTH112; LING335

SPTH2220 Speech Pathology in Education & Community Settings 2  
**Unit Value:** 10  
Focuses primarily on communication disorders typically seen within community health and education settings. Developmental speech disorders are dealt with at an advanced level for both assessment and treatment. Communication problems associated with cleft palate and with cerebral palsy are also covered. The assessment and treatment of stuttering in both children and adults are studied.  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** SPTH112, LING334

SPTH3020 Speech Pathology IIIB  
**Unit Value:** 10  
Covers voice disorders. Voice science including perceptual and instrumental measurement and description of normal and abnormal voice is studied. The assessment and management of voice disorders in children and adults provides the main focus of study. The course includes coverage of the speech rehabilitation of the person following laryngectomy.  
**Contact hours:** 5 hours per week (lectures, tutorials and laboratories)  
**Assumed Knowledge:** Assumed knowledge - SPTH311, ANAT103

SPTH3080 Clinical Practice  
**Unit Value:** 10  
Students undertake supervised face-to-face clinical experience with adult speech and language disordered caseloads. If available, caseload may include adults with fluency disorders, voice disorders (child/adult), or with communication disorders relating to developmental disability. Some placements may also continue to provide experience with paediatric caseloads. Clinical experience placements are usually in speech pathology student units either in community/hospital settings or in the Speech Pathology Service on-campus, and attendance for up to two days (8.30am - 5pm) each week may be required. One hour a week will be spent in tutorials on-campus to assist with the preparation for clinical placement experiences and the facilitation of links between academic/clinical knowledge.  
**Contact hours:** 15 hours per week  
**Assumed Knowledge:** SPTH111, HUPH291, SPTH208

SPTH3110 Speech Pathology in Medical Settings 1  
**Unit Value:** 10  
Focuses on communication disorders typically seen in hospital settings or specialist service facilities. Acquired communication disorders of neurological origin are covered, i.e. aphasia and related disorders, apraxia of speech, dysarthria. An introduction to the management of swallowing disorders (dysphagia) in adults is also covered.  
**Contact hours:** TBA  
**Assumed Knowledge:** SPTH222, HUPH291

SPTH3120 Speech Pathology in Medical Settings 2  
**Unit Value:** 10  
Focuses on communication disorders typically seen in hospital settings or specialist service facilities in the community. Swallowing (dysphagia) in adults and children (including infant feeding) is also comprehensively covered. Alternative and augmentative communication approaches are explored. Hearing rehabilitation is studied for hearing impairment and its consequences for communication in adults (with a particular focus on the elderly population).  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** All prior speech pathology courses in prescribed sequence. Success in the course will be facilitated by undertaking this course not longer than 12 months prior to degree completion.

SPTH4010 Speech Pathology IV  
**Unit Value:** 10  
Discusses the professional issues involved in clinical speech pathology, including ethics, medico-legal issues, and management issues involved in caseload & service delivery. Job seeking skills and career development will also be covered.  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** All prior speech pathology courses in prescribed sequence. Success in the course will be facilitated by undertaking this course not longer than 12 months prior to degree completion.

SPTH4050 Speech Pathology V  
**Unit Value:** 10  
Provides students with an opportunity to integrate and consolidate their theoretical and applied learning at an advanced level over the range of populations with speech-language and swallowing pathology. Problem based learning techniques will be used to examine a series of complex speech pathology case studies (of individuals, and of service delivery for clinical populations) at an advanced level of theoretical knowledge and clinical skill.  
**Contact hours:** 2 hours per week  
**Assumed Knowledge:** All prior speech pathology subjects in prescribed sequence.

SPTH4080 Clinical Practice  
**Unit Value:** 20  
Students undertake supervised face-to-face clinical experience with the full range of speech and language disordered caseloads, i.e. across the range indicators of speech, language, voice, fluency and swallowing, with both child and adult populations. The clinical placements are on a block basis, involving full day attendance (8.30am - 5pm), Monday to Friday, over a period of 10 weeks. This extended block program allows for as many placements as possible to be in rural NSW and metropolitan Sydney locations in order to provide experience in the models of service delivery appropriate to these settings. Additional individual tutorial support is provided by telephone to students in remote locations.  
**Contact hours:** 5 hours per week  
**Assumed Knowledge:** SPTH101, SPTH210, SPTH211, SPTH301, SPTH302, SPTH310  
**Students need to note that there is a specific requirement for English performance to be clearly adequate for professional needs in order to successfully complete SPTH408.**

SPTH4090 Clinical Practice  
**Unit Value:** 10  
Students undertake supervised face-to-face clinical experience with a particular speech and language disordered caseload, i.e. across one or more of the range indicators of speech, language, voice, fluency and swallowing, with either or both child and adult populations. The clinical placements are usually in speech pathology services provided in community or hospital settings, and include full day attendance (8.30am - 5pm), on a one day per week basis over the semester.  
**Contact hours:** 7 hours per week  
**Assumed Knowledge:** SPTH101, SPTH210, SPTH211, SPTH301, SPTH302, SPTH310
SPTH4120 Special Topics
Unit Value: 10
Designed to allow for advanced level study in areas of recent theoretical and empirical research in the field of speech pathology. Students may elect to study through the lecture/tutorial program in a particular topic area (determined annually and advised to students prior to enrolment for the following year), or to undertake an individualised learning program (ILP) arranged in consultation with the Speech Pathology Program Co-ordinator. This course is an elective within the Bachelor of Speech Pathology.
Contact hours: 2 hours per week
Assumed Knowledge: SPTH101, SPTH210, SPTH211, SPTH301, SPTH302, SPTH310

SPTH4210 Research Review
Unit Value: 10
Students’ prior learning of research methodology is reviewed in the context of speech pathology clinical research. Students review the current theoretical and empirical research literature in 10 hours. They then prepare a specific research question or direction for further research. The major modes of delivery are lectures and tutorials.
Contact hours: TBA
Assumed Knowledge: All SPTH 300 level courses

SPTH4220 Speech Pathology Research Thesis
Unit Value: 10
In this course students develop a feasible and ethically sound research methodology for a speech pathology research question. Where appropriate, and with clearance from the Faculty of Arts & Social Science Research Ethics Committee, some students will pilot selected aspects of their proposed methodology. Students present their completed work in the form of a research thesis, and in a conference-style presentation. The major modes of delivery are lectures and tutorials.
Contact hours: TBA
Assumed Knowledge: SPTH421. Students must have obtained at least a Credit average across their core SPTH courses at 200 and 300 level for entry to SPTH422.

SRMT1010 Sustainable Resource Management: Natural Systems
Unit Value: 10
Introduces students to core concepts in sustainable resource management, especially the ecological basis of sustainability in natural systems and the principles of ecosystem management. Covers ecosystem theory, human uses and impacts, with emphasis on examples of the management of forests, rivers, lakes and marine ecosystems of the Central Coast. Examines the human activities that threaten ecosystems, and introduces the conservation practices, research, communication and computing skills necessary to analyse and review issues and case studies.
Contact: 5 hours per week
Assumed Knowledge: Nil

SRMT1020 SRM: Social Systems
Unit Value: 10
Examines social systems and their integral relationship with sustainable resource management at both global and local scales. This subject is concerned with identifying and understanding social impacts and interactions in resource management, such that the management of social systems becomes an integral part of achieving a more sustainable society. In examining social systems students will be encouraged to consider: the nature of interactions between people and the environment; the different attitudes, opinions, views and values that influence this interaction; and how these differences relate to the ways in which different societies use resources.
Contact hours: 5 hours per week
Assumed Knowledge: SRM101

SRMT2010 Values and Sustainability
Unit Value: 10
Examines the way in which society values the environment and how this may influence its management. The subject will focus on local or regional case studies and examples, as far as possible. Students will develop an understanding of: the nature of environmental ethics and philosophies; the factors affecting people’s attitudes and behaviour towards the environment; and ecological economics, valuation techniques and economic instruments for sustainable resource management.
Practical skills in the design and implementation of community surveys will also be covered.
Contact hours: 5 hours per week
Assumed Knowledge: None

SRMT2020 Sustainable Resource Management: Land Systems
Unit Value: 10
Examines the ways in which soil and vegetation can be managed on a sustainable basis. The subject will focus on local and regional case studies and examples, as far as possible. Students will develop an understanding of: the current issues in land and vegetation degradation; the ecological principles underlying soil and vegetation management; and strategies to manage degraded soils, exotic species, remnant vegetation, revegetation of sites and fire in vegetation systems. They will also develop practical skills in site and soil description, vegetation survey methods and plant identification and in identifying and evaluating potential threats to land and vegetation systems and designing different management options for site-specific problems.
Contact hours: 5 hours per week
Assumed Knowledge: None, although SRM101 and SRM102 are highly recommended. The lack of prerequisites is to enable students specialising in e.g. Food Technology to undertake study in a cognate area.

SRMT2030 Sustainable Resource Management: Water
Unit Value: 10
The sustainable management of water requires a holistic understanding of the factors that impact on water quality, aquatic habitats and the conflict between water allocation for human use and the environment. In this subject, students will examine the ways in which water quality and water allocation can be managed on a sustainable basis. The subject will focus on local and regional case studies and examples, as far as possible.
Contact hours: 5 hours per week
Assumed Knowledge: None

SRMT2040 Sustainable Resource Management: Biodiversity
Unit Value: 10
Provides students with a full understanding of the significance of biodiversity in planning, designing, and managing sustainable systems and processes, including maintaining ecosystem functions and services at all levels.
Students will learn how to: describe the major components of biodiversity at different spatial scales; conduct inventories of local biotas using standard techniques; understand the complex processes threatening biodiversity; develop first-level strategies for managing processes which threaten biodiversity; apply a range of biodiversity assessment techniques; ensure that biodiversity conservation is an integral part of any program of sustainable natural resource management.
Contact hours: 5 hours per week
Assumed Knowledge: None

SRMT3010 Resource Assessment and Monitoring
Unit Value: 10
Provides students with the ability to manage resource use on a sustainable basis, monitor natural variations in the resource base and to assess the effectiveness of their management actions. In the normal planning and management cycle the results of monitoring programs are used in interpreting, analysing and reporting data and making resource management decisions. Students will undertake a semester-long case study project.
Contact hours: 5 hours per week

SRMT3020 Planning for Sustainability
Unit Value: 10
Planning for resource usage at different scales is one of the foundations for sustainability. Building on the technical content of first and second year subjects in the Sustainable Resource Management program, this subject will develop theory and skills of planning for sustainability applicable across a range of resource-use contexts.
Contact hours: 5 hours per week
<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Unit Value</th>
<th>Description</th>
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<tbody>
<tr>
<td>SRMT3030</td>
<td>Conservation Science</td>
<td>10</td>
<td>Provides students with the knowledge and skills used to diagnose, research and treat issues of concern for living resources including the status of endangered species, harvesting of wild species (such as fisheries and forestry), rehabilitation of species and communities, and loss of generic diversity. Specific objectives are to provide students with conservation science theory, to develop skills for the analysis and treatment of issues in small group settings and to develop skills in gathering, interpreting, analysing and reporting data and making recommendations for resource management based on this information. Students will undertake a semester-long case study project. Contact hours: 2 lecture hours and 3 hours practical work per week. Assumed Knowledge: SRM101 Sustainable Resource Management: Natural Systems.</td>
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<tr>
<td>SRMT3040</td>
<td>Community Resource Management</td>
<td>10</td>
<td>Enables students to be proficient facilitators for sustainable resource management. Students will learn how to develop extension programs, run meetings, plan small group activities, and facilitate environmental education workshops at the local community level. Also covers conflict resolution and avoidance, how to work in conflict situations involving the use of natural resources, community consultation, participatory decision making and negotiation skills in community settings. Contact hours: 5 hours per week. Assumed Knowledge: SRM101 Sustainable Resource Management: Natural Systems.</td>
</tr>
<tr>
<td>STAT1050</td>
<td>Statistics for Business</td>
<td>10</td>
<td>This is the introductory subject in Statistics for undergraduate degrees offered by the Faculty of Economics and Commerce. Designed to introduce students to statistical thinking, data presentation and statistical analyses needed for business. Covers prerequisite material for several other subjects offered by the Faculty of Economics and Commerce. Assumed Knowledge: Nil.</td>
</tr>
<tr>
<td>STAT1070</td>
<td>Statistics for the Sciences</td>
<td>10</td>
<td>Introduces students to statistical thinking, data presentation and statistical analysis needed for science based courses. It covers prerequisite material for several other courses offered by the Faculty of Science and Mathematics. Assumed Knowledge: Nil.</td>
</tr>
<tr>
<td>STAT2010</td>
<td>Fundamentals of Statistics</td>
<td>10</td>
<td>Combines classical probability concepts with the use of computers in performing statistical calculations. Develops theoretical aspects of statistics including random variables and their distributions, and provides a first approach to statistical estimation and hypothesis testing. The theoretical ideas are applied to real problems, and computational ideas such as the empirical distribution function and the bootstrap techniques are introduced. This course is offered both internally and by distance learning mode. Contact hours: 4 hours per week. Assumed Knowledge: Any 100 level STAT subject or ECON113 or (MATH111 or MATH121).</td>
</tr>
<tr>
<td>STAT2020</td>
<td>Data Analysis: Regression &amp; Forecasting</td>
<td>10</td>
<td>Covers the practical and theoretical aspects of regression analysis and analysis of variance. Emphasis is placed upon diagnostics and remedial measures to be taken when the assumptions are not met. Transformations, selection of regressors, alternatives to least squares, nonlinear multiple regression are covered. The theoretical developments are complemented by practical computations using statistical computing packages. This subject is offered both on-campus and by distance learning mode. Contact hours: 4 hours per week. Assumed Knowledge: Any 100 level STAT subject or STAT201 - Fundamentals of Statistics or ECRM201 - Business Research Methods or ECON113 - Basic Econometrics and Quantitative Analysis I.</td>
</tr>
<tr>
<td>STAT2100</td>
<td>Business Research Methods</td>
<td>10</td>
<td>Provides an opportunity for students taking different degrees and different majors within the Faculty of Economics and Commerce to develop an understanding of the research process and fundamental research methods. Theoretical understanding and skill development are given equal emphasis in this course. Contact hours: 3 hours per week. Assumed Knowledge: Any 100 level STAT subject or ECON113 or (MATH111 or MATH121).</td>
</tr>
<tr>
<td>SRMT4110</td>
<td>Sustainable Resource Management Honours 411</td>
<td>20</td>
<td>Provides an advanced and substantive education in Sustainable Resource Management. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underlying the practice of sustainable resource management, within Australian and global settings. Assumed Knowledge: BSc or equivalent.</td>
</tr>
<tr>
<td>SRMT4120</td>
<td>Sustainable Resource Management Honours 412</td>
<td>20</td>
<td>Provides an advanced and substantive education in Sustainable Resource Management. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underlying the practice of sustainable resource management, within Australian and global settings. Assumed Knowledge: BSc or equivalent.</td>
</tr>
<tr>
<td>SRMT4130</td>
<td>Sustainable Resource Management Honours 413</td>
<td>20</td>
<td>Provides an advanced and substantive education in Sustainable Resource Management. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underlying the practice of sustainable resource management, within Australian and global settings. Assumed Knowledge: BSc or equivalent.</td>
</tr>
<tr>
<td>SRMT4140</td>
<td>Sustainable Resource Management Honours 414</td>
<td>20</td>
<td>Provides an advanced and substantive education in Sustainable Resource Management. The subject develops skills in the theory and practice of research; the collection, analysis and interpretation of data; and the presentation of an original thesis and review essay. The subject develops an understanding of advanced theory underlying the practice of sustainable resource management, within Australian and global settings. Assumed Knowledge: BSc or equivalent.</td>
</tr>
<tr>
<td>STAT3010</td>
<td>Statistical Inference</td>
<td>10</td>
<td>Covers theoretical and practical aspects of statistical inference by developing definitions, techniques and concepts that are statistical and are natural extensions of previous concepts. Emphasises the understanding of statistical principles and how these principles are important in modelling data. Estimation and hypothesis testing are the main areas developed, and a number of different approaches (including maximum likelihood and Bayesian methods) are considered. This subject is offered both on-campus and by distance learning mode. Contact hours: 3 hours per week. Assumed Knowledge: STAT201 - Fundamentals of Statistics Introductory Calculus.</td>
</tr>
<tr>
<td>STAT3030</td>
<td>Generalized Linear Models</td>
<td>10</td>
<td>Covers the principles of statistical modelling and the theory of generalized linear models and illustrates how methods for analysing continuous and categorical data fit into this framework. This subject is offered both on-campus and by distance learning mode. Contact hours: 3 hours per week. Assumed Knowledge: Principles of statistical inference (eg STAT201) and introduction to regression and other models (eg STAT202).</td>
</tr>
<tr>
<td>STAT3040</td>
<td>Time Series Analysis</td>
<td>10</td>
<td>Combines a practical approach to time series analysis with an understanding of theoretical concepts in the time and frequency domain. Emphasis is placed on model development, how to choose an appropriate model, and how to estimate model parameters. This course is offered both on-campus and by distance learning mode. Assumed Knowledge: STAT2010 - Fundamentals of Statistics, STAT2020 - Data Analysis: Regression and Forecasting, Introductory Calculus.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Unit Value</td>
<td>Unit Value</td>
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<tr>
<td>STAT3100</td>
<td>Total Quality Management</td>
<td>10</td>
<td></td>
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<tr>
<td>STAT3170</td>
<td>Surveys and Experiments</td>
<td>10</td>
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<tr>
<td>STAT3210</td>
<td>Business Research Methods</td>
<td>10</td>
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<tr>
<td>STAT3220</td>
<td>Advanced Marketing Research</td>
<td>10</td>
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<tr>
<td>STAT4310</td>
<td>Statistics Honours</td>
<td>20</td>
<td></td>
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<tr>
<td>STAT4330</td>
<td>Statistics Honours</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>STEC1010</td>
<td>Computing and Communication in Science</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>STEC2020</td>
<td>Biometrics</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>STEC2900</td>
<td>Mathematics and Technology</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

Guide to Undergraduate Programs - 2002
The Honours program in Applied Chemistry consists of one year of full-time study (or the equivalent part-time) for a total of 80 Credit Points, building on the BSc. It includes course-work material (including preparation of an essay on a related area in the chemical sciences) and a research project, the results of which are reported in a thesis. An Honours year in the School of Science and Technology is designed to develop those skills required for the student to be able to continue the process of self-education and investigate a topic in a particular area of the discipline. While the student will obtain specialised knowledge and skills during the study, it is the process of research which is particularly important.

**Assumed Knowledge:** Knowledge in the chemical sciences appropriate to that of a BSc (or other appropriate undergraduate qualification) graduate.

The normal entry pattern requires a Credit average in the discipline during the Third year of the BSc.

The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 Credit Points, building on the BSc. It includes course-work material (including preparation of an essay on a related area in the biological sciences) and a research project, the results of which are reported in a thesis. An Honours year in the School of Science and Technology is designed to develop those skills required for the student to be able to continue the process of self-education and investigate a topic in a particular area of the discipline. While the student will obtain specialised knowledge and skills during the study, it is the process of research which is particularly important.

**Assumed Knowledge:** Knowledge in the chemical sciences appropriate to that of a BSc (or other appropriate undergraduate qualification) graduate.

The normal entry pattern requires a Credit average in the discipline during the Third year of the BSc.

The normal entry pattern requires a Credit average in the discipline during the Third year of the BSc.

The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 Credit Points, building on the BSc. It includes course-work material (including preparation of an essay on an area in the biological sciences) and a research project, the results of which are reported in a thesis. An Honours year in the School of Science and Technology is designed to develop those skills required for the student to be able to continue the process of self-education and investigate a topic in a particular area of the discipline. While the student will obtain specialised knowledge and skills during the study, it is the process of research which is particularly important.

**Assumed Knowledge:** Knowledge in the chemical sciences appropriate to that of a BSc (or other appropriate undergraduate qualification) graduate.

The normal entry pattern requires a Credit average in the discipline during the Third year of the BSc.

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The normal entry pattern requires a Credit average in the discipline during the Third year of the BSc.
**SURV1120 Surveying 2**  
**Unit Value:** 10  
Elementary field and office surveying theory and practice especially in relation to civil engineering works, including areas & volumes, horizontal circular and transition curves and vertical curves, long-sections and cross-sections, traverse calculations and computer-aided-drafting.

Delivered primarily by lecture accompanied by field exercises.  
**Contact hours:** One 3 hour lecture per week, sometimes including a 1 hour tutorial, with approximately five 3 hour practical field work sessions distributed throughout the semester. A 2 day survey camp (in October) forms part of the assessment.  
**Assumed Knowledge:** MATH111, MATH112.

**SURV1911 Industrial Experience**  
**Unit Value:** 10  
This course formalises periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** None

**SURV1921 Industrial Experience**  
**Unit Value:** 10  
This course formalises periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** None

**SURV1931 Industrial Experience**  
**Unit Value:** 10  
This course formalises periods of Industrial Experience gained by part-time students. Students are also required to present a report giving a connected account and critical evaluation of their engineering activities and experience during the year. Such courses may be counted by part-time students as electives.  
**Assumed Knowledge:** None

**SURV2130 Surveying 3**  
**Unit Value:** 10  
Various techniques of levelling, angular observation and distance measurement, at different degrees of precision with a variety of instruments, are examined and compared. The associated reductions and computations are also dealt with.  
**Contact hours:** 6 hours per week + informal student consultation time.  
**Assumed Knowledge:** SURV111 Surveying 1, SURV112 Surveying 2, and first year Mathematics.

**SURV2180 Electronic Surveying**  
**Unit Value:** 10  
Presents the theory and practical usage of electronic equipment used in field surveys; fully electronic theodolites, electronic distance measuring devices, Global Positioning System receivers, echo-soundsers.  
**Contact hours:** 5 hours per week.  
**Assumed Knowledge:** Surveying 1 and Surveying 2

**SURV2340 Survey Computing**  
**Unit Value:** 10  
Involves significant amounts of PC-based computations using proprietary and other software. Computations required for the reduction and analysis of field surveys, including an introduction to three dimensional spatial co-ordinate systems, three dimensional co-ordinate transformations, spherical trigonometry, traverse reduction methods, cadastral survey computations, and survey-based computer-aided drafting (CAD) principles, practice and examples of software.  
**Contact hours:** 5 hours per week.  
**Assumed Knowledge:** MATH111, MATH112

**SURV2650 Spatial Data Systems and Remote Sensing**  
**Unit Value:** 10  
This subject will provide students with a general knowledge of types of spatial information work, including structures and of methods for data analysis, classification and interpolation. Students will acquire skills in the use of Geographical Information Systems and managing spatial data input, verification, storage, output. Students will also obtain general knowledge of the basic concepts of remote sensing and general radiation theory. They will be exposed to a range of sensors and systems and will obtain a broad knowledge of a wide range of remote sensing applications. The subject will provide students with general skills in image processing and image interpretation.  
**Contact hours:** 4 hours per week.  
**Assumed Knowledge:** There are no pre-requisites for this subject, although broad general knowledge of SURV111 Surveying 1 or PHYS111 will be desirable.

**SURV3350 Analysis of Observations**  
**Unit Value:** 10  
This subject gives an introduction to Probability and Statistical Inference. This is applied to the least squares adjustment of survey and levelling networks as well as to the estimation of the precision of the computed coordinates or heights. In addition the application of least squares modelling to various areas of relevance to Surveyors is dealt with.  
**Contact hours:** 6 hours per week + informal student consultation time.  
**Assumed Knowledge:** MATH111, MATH112.

**SURV3510 Geodesy 1**  
**Unit Value:** 10  
The gravity field of the earth and how it affects observations. Introduction to the geometry of the spheroid. Determination of geographical and map projection coordinates from geodetic observations. The concept of a geodetic datum and how to transform coordinates from one datum to another.  
**Contact hours:** 5 hours per week + informal student consultation time.  
**Assumed Knowledge:** MATH201; MATH203; SURV335 Analysis of Observations.

**SURV3610 Photogrammetry 1**  
**Unit Value:** 10  
Brief history of photography and photogrammetry; geometry of a single image; stereoscopic vision; relative and absolute orientation; analogue, analytical and digital plotters; camera and lens calibrations.  
**Contact hours:** Lectures, tutorials and practical field work sessions (total of 5 hours per week).  
**Assumed Knowledge:** Mathematical background an advantage.

**SURV3620 Remote Sensing**  
**Unit Value:** 5  
This subject will provide students with a general knowledge of the basic concepts of remote sensing and general radiation theory. They will be exposed to a range of sensors and systems and will obtain a broad knowledge of a wide range of remote sensing applications. The subject will provide students with general skills in image processing and image interpretation.  
**Contact hours:** 2 hours of lectures + 1 hour of laboratories/tutorials per week.  
**Assumed Knowledge:** There are no pre-requisites for this subject, although broad general knowledge of SURV111 or PHYS111 will be desirable.

**SURV3930 Land Boundary Definition**  
**Unit Value:** 10  
Theory and Practice of Land Boundary Definition.  
**Contact hours:** Delivered primarily by lecture accompanied by field exercises.  
**Contact hours:** 5 hours per week. A field camp of five days duration is an essential element.  
**Assumed Knowledge:** Second Year B. Surv. subjects.

**SURV4110 Industrial Surveying**  
**Unit Value:** 10  
Presents applications of surveying field, office and management principles and practices to the specific environment encountered in mining surveys and other industrial surveys.  
**Contact hours:** 5 hours per week.  
**Assumed Knowledge:** SURV111 Surveying 1, SURV112 Surveying 2, SURV213 Surveying 3, SURV234 Survey Computing.

**SURV4200 Survey Design and Management**  
**Unit Value:** 10  
A final year profession subject which prepares students for professional life.  
**Contact hours:** 5 hours per week. A field camp of up to 5 days duration is an essential component.  
**Assumed Knowledge:** First three years of B. Surv. or (B.E. Civil)

**SURV4410 Astronomy and Satellite Positioning**  
**Unit Value:** 10  
Astronomical positioning: Introduction to relative movements of earth, sun and stars; astronomical co-ordinate system. Azimuth determination from sun observations and star observations in detail. Latitude and longitude determination in principle, with emphasis on error minimisation. Satellite positioning: Theory and practice of precise positioning using GPS and GLONASS series satellites.  
**Contact hours:** 5 hours per week.  
**Assumed Knowledge:** Level 1 and 2 surveying subjects

Surveying Computing
SURV4720 Land Valuation
Unit Value: 10
Introduces final year Surveying students to the principles and practice of land valuation. Land valuation is one of those areas of professional expertise which is fundamental to a full understanding of land in the wide context which surveyors view it. It includes a field trip.
Contact: 5 hours per week.
Assumed Knowledge: HSC or equivalent.

SURV4730 Town Planning
Unit Value: 10
Principles of Town Planning, a practical exercise and review of Planning Legislation. Contact hours: Approximately 5 hours per week although this may reduce as more material is moved to web-based delivery.
Assumed Knowledge: At least first two years B.Surv. degree is preferable.

SURV4810A Project A
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
Extensive project on any approved matter which contributes to the program objectives. Delivered primarily by case study.
Assumed Knowledge: All courses at level 1000, 2000, 3000 in the relevant program.

SURV4810B Project B
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
Extensive project on any approved matter which contributes to the program objectives. Delivered primarily by case study.
Assumed Knowledge: All courses at level 1000, 2000, 3000 in the relevant program.

SURV4850A Project A
Unit Value: 10
** This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Extensive project on any approved matter which contributes to the course objectives. Concludes with one day of intensive seminar presentations by all students.
Contact hours: 3 lecture hours per week.
Assumed Knowledge: All subjects at level 100, 200, 300 in the relevant course.

SURV4850B Project B
Unit Value: 10
** This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Extensive project on any approved matter which contributes to the course objectives. Concludes with one day of intensive seminar presentations by all students.
Contact hours: 3 lecture hours per week.
Assumed Knowledge: All subjects at level 100, 200, 300 in the relevant course.

SURV4980 Special Topic
Unit Value: 5
This subject provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this subject may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: Will vary according to Special Topic chosen - up to 3 hours lectures/tutorials per week.
Assumed Knowledge: Variable.

SURV4990 Special Topic
Unit Value: 5
This subject provides for occasional offering of elective material. In most instances this would be an offering by a visiting scholar. In transition programs, this subject may be used to accommodate a special program. Occasionally, directed reading courses may be offered as electives to final year students.
Contact hours: Will vary according to Special Topic chosen - up to 3 hours lectures/tutorials per week.
Assumed Knowledge: Variable.

SWRK1010A Introduction to Social Work (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Focuses on social work in contemporary Australian Society with an emphasis on how inequality is constructed and social justice/human rights as a frame of reference. Through exercises, activities and small groupwork, students are introduced to the experience-based model of learning as they explore subject content. Students also develop relevant skills and explore values inherent in Social Work practice and the Code of Ethics of the profession.
Contact hours: 5 hours per week.
Assumed Knowledge: N/A.

SWRK1010B Introduction to Social Work (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Focuses on social work in contemporary Australian Society with an emphasis on how inequality is constructed and social justice/human rights as a frame of reference. Through exercises, activities and small groupwork, students are introduced to the experience-based model of learning as they explore subject content. Students also develop relevant skills and explore values inherent in Social Work practice and the Code of Ethics of the profession.
Contact hours: 5 hours per week.
Assumed Knowledge: N/A.

SWRK2030A Field Education 1 (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Interpersonal skills and the ability to reflect on and analyse work with a supervisor are first taught in a classroom-based workshop in first semester. On successful completion of this students go on to an agency-based field education placement organised by the Department.
Assumed Knowledge: SWRK1010, SOCA1010 and SOCA1020, PSYC1010 and PSYC1020.

SWRK2030B Field Education 1 (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Interpersonal skills and the ability to reflect on and analyse work with a supervisor are first taught in a classroom-based workshop in first semester. On successful completion of this students go on to an agency-based field education placement organised by the Department.
Assumed Knowledge: SWRK1010, SOCA1010 & SOCA1020, PSYC1010 and PSYC1020.

SWRK2040A Social Work Special Project (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Focuses on social work in contemporary Australian Society with an emphasis on how inequality is constructed and with social justice/human rights as a frame of reference. Through exercises, activities and small groupwork, students are introduced to the experience-based model of learning as they explore subject content. Students also develop relevant skills and explore values inherent in Social Work practice and the Code of Ethics of the profession.
Contact hours: 3 hours per week.
Assumed Knowledge: Sociology 101 and 102; Psychology 101 and 102; History 101 or 102 or Aboriginal Studies 101.

SWRK2040B Social Work Special Project (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Focuses on social work in contemporary Australian Society with an emphasis on how inequality is constructed and with social justice/human rights as a frame of reference. Through exercises, activities and small groupwork, students are introduced to the experience-based model of learning as they explore subject content. Students also develop relevant skills and explore values inherent in Social Work practice and the Code of Ethics of the profession.
Contact hours: 3 hours per week.
Assumed Knowledge: Sociology 101 and 102; Psychology 101 and 102; History 101 or 102 or Aboriginal Studies 101.
SWRK2100A Social Work Theory and Practice I (Part A)
Unit Value: 20
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: PSYC102, PHIL258, HIST101 or HIST102 or ABOR STUDIES 111

Contact hours: 7 hours per week

SWRK2100B Social Work Theory and Practice I (Part B)
Unit Value: 20
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: SWRK101, SWRK210, SWRK203, SOCA111, PSYC101, PSYC102, PHIL258, HIST101 or HIST102 or ABOR STUDIES 111

SWRK3030A Field Education II (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: SWRK101, SWRK210, SWRK203, SOCA111, PSYC101, PSYC102, PHIL258, HIST101 or HIST102 or ABOR STUDIES 111

Contact hours: TBA

SWRK3030B Field Education II (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: SWRK101, SWRK210, SWRK203, SOCA111, PSYC101, PSYC102, PHIL258, HIST101 or HIST102 or ABOR STUDIES 111

Contact hours: TBA

SWRK3100A Social Work Theory and Practice II (Part A)
Unit Value: 20
This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: Second year Social Work subjects, History 101 or 102 or Aboriginal Studies, Philosophy 258,

Contact hours: 9 hours per week (for 6 weeks) in Semester 1, 9 hours per week in Semester 2

SWRK3100B Social Work Theory and Practice II (Part B)
Unit Value: 20
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: Second year Social Work subjects including SWRK310A, History 101 or 102 or Aboriginal Studies, Philosophy 258,

Contact hours: 9 hours per week (for 6 weeks) in Semester 1, 9 hours per week in Semester 2

SWRK4030A Field Education III (Part A)
Unit Value: 10
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Assumed Knowledge: The three previous years of the BSW as in the prescribed sequence of the degree.

Contact hours: 3 hours per week plus 50 day placement

SWRK4030B Field Education III (Part B)
Unit Value: 10
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: The three previous years of the BSW as in the prescribed sequence of the degree.

Contact hours: 3 hours per week plus 50 day placement

SWRK4100A Social Work Theory and Practice III (Part A)
Unit Value: 20
This course is Part A of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: Third Year Social Work courses, SPSW3070, LEGL1002 or LEGL2001 or LEGL2008.

SWRK4100B Social Work Theory and Practice III (Part B)
Unit Value: 20
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

Assumed Knowledge: Third Year Social Work courses, SPSW 3070, LEGL1002 or LEGL2001 or LEGL2008 or LEGL1001.

Contact hours: 6 hours per week

Third Year Social Work courses, SPSW 3070, LEGL1002 or LEGL2001 or LEGL2008 or LEGL1001.
UNIP101 Advanced Mathematics I
Unit Value: 10
UNIP101 Advanced Mathematics I and UNIP102 Advanced Mathematics II together develop and consolidate the skills necessary for successful study at tertiary level in Mathematics and allied fields at Australian Institutions.
Contact: 2 hours per week
Assumed Knowledge: Year 10 NSW School Certificate Mathematics or equivalent.

UNIP102 Advanced Mathematics II
Unit Value: 10
UNIP102 Advanced Mathematics II and UNIP101 Advanced Mathematics I together develop and consolidate the skills necessary for successful study at tertiary level in Mathematics and allied fields at Australian Institutions.
Contact: 9 hours per week
Assumed Knowledge: UNIP101 Advanced Mathematics I or equivalent.

UNIP105 Australia’s Neighbours
Unit Value: 10
UNIP105 Australia’s Neighbours introduces students to Australian cultural studies with an emphasis on its geographically significant neighbours. It examines diversity and change in the environment and resource development including critical understanding of causes and consequences of each.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP107 Biology I
Unit Value: 10
UNIP107 Biology I is designed to introduce students to the content and processes of Biology suitable for the commencement of undergraduate studies at the University of Newcastle. It introduces both knowledge and skills necessary for further exploration of the field.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP108 Biology II
Unit Value: 10
UNIP108 Biology II is designed to introduce students to the content and processes of Biology suitable for the commencement of undergraduate studies at the University of Newcastle. It introduces both knowledge and skills necessary for further exploration of the field.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP110 Business Principles
Unit Value: 10
UNIP110 Business Principles introduces students to new business concepts and then links these concepts to the modern business world. Students develop an awareness of the broader theoretical concepts incorporating both practical and case study analysis, which are designed to encourage discussion on the role of business in the modern world.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP115 Chemistry I
Unit Value: 10
UNIP115 Chemistry is a central science. It:
1. investigates people and their world,
2. introduces the basic ideas of chemistry (the world of atoms, molecules and chemical substances), and develops an ability to interpret and communicate chemical ideas.
3. uses simple models to explain chemical concepts and provides insights into the role of chemistry in modern society.
Contact: 3 hours per week
Assumed Knowledge: Mathematical skills and knowledge equivalent to Year 10 School Certificate.

UNIP116 Chemistry II
Unit Value: 10
UNIP116 Chemistry II is a central science. It:
1. investigates people and their world,
2. introduces the basic ideas of chemistry (the world of atoms, molecules and chemical substances), and develops an ability to interpret and communicate chemical ideas.
3. uses simple models to explain chemical concepts and provides insights into the role of chemistry in modern society.
Contact: 3 hours per week
Assumed Knowledge: Mathematical skills and knowledge equivalent to Year 10 School Certificate.

UNIP120 Communications
Unit Value: 10
UNIP120 Communications is designed to provide opportunities for students to trial a range of content areas available in the Bachelor of Arts (Communication Studies) degree. It covers aspects of publishing and visual art, media studies, journalistic techniques and the media roles in sport, education, politics and future studies.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP130 Cultural Studies I
Unit Value: 10
UNIP130 Cultural Studies I provides students with an introduction to the study of society and culture. In particular it looks at the continuity and change that exists in societies and cultures. Emphasis is given to the role of institutions and their contribution to society.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP131 Cultural Studies II
Unit Value: 10
UNIP131 Cultural Studies II provides students with an introduction to the study of society and culture. In particular it looks at the continuity and change that exists in societies and cultures.
Emphasis is given to the role of institutions and their contribution to society. This course is also offered in the Summer School.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP135 Directed Study I
Unit Value: 10
UNIP135 Directed Study I provides an opportunity for students to pursue independent research on a topic relevant to their future undergraduate studies. It emphasizes the methodologies of academic writing and research as well as oral presentation. Whilst providing the maximum of flexibility in student activity it also demands high levels of self-direction and a capacity to work with minimal supervision.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP136 Directed Study II
Unit Value: 10
UNIP136 Directed Study II provides an opportunity for students to pursue independent research on a topic relevant to their future undergraduate studies. It emphasizes the methodologies of academic writing and research as well as oral presentation. Whilst providing the maximum of flexibility in student activity it also demands high levels of self-direction and a capacity to work with minimal supervision.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP140 English for Tertiary Studies I
Unit Value: 10
UNIP140 English for Tertiary Studies I incorporates the macroskills of Reading, Writing, Speaking and Listening, is designed to enable students to gain a practical knowledge of English as it applies to their future academic area eg English for Science and Engineering, Medical and Health Sciences, Commercial Studies and Humanities. Work is designed to equip students with the generic skills associated with academic learning (eg paraphrasing, summarizing, note-taking). There is also recognition of the necessity of knowledge and usage of colloquial and idiomatic English, particularly in Medical and Health Sciences. It is also designed to develop effective computer skills.
Contact: 5 hours per week
Assumed Knowledge: IELTS 5.5; TOEFL 500

UNIP141 English for Tertiary Studies II
Unit Value: 10
UNIP141 English for Tertiary Studies II is designed to provide depth and extension of the academic skills studied in UNIP140 English for Tertiary Studies I. It seeks to assist both student and teacher to identify and concentrate on the areas of language needed, particularly as a result of outcomes in UNIP140 English for Tertiary Studies I. It is designed to enable students to continue to gain confidence and competence in all areas of English; to reinforce the students’ knowledge of a variety of English genres, with an emphasis on applying this knowledge in a practical and productive way. The students are encouraged to view their writing as a process of preparation, drafting and editing, and to develop and demonstrate successful research and independent learning skills which are appropriate to their particular area of study at the tertiary level.
Contact: 5 hours per week
Assumed Knowledge: IELTS 5.5; TOEFL 500

UNIP150 Information Technology
Unit Value: 10
UNIP150 Information Technology is designed to introduce students to relational databases, their structure, functions and applications. It also introduces students to networks, operating systems, data management systems and management structures.
Contact: 2 hours per week
Assumed Knowledge: Basic familiarity with Windows based computers.
UNIP155 Introduction to Legal Studies
Unit Value: 10
UNIP155 Introduction to Legal Studies introduces students to legal studies with an
Australian perspective, relevant terminology and how this applies to practical legal
situations in Australian society. Through research and critical analysis of case studies
it allows students to develop an awareness of the legal implications that exist in
everyday life.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP160 Introduction to Health Professional Studies I
Unit Value: 10
UNIP160 Introduction to Health Professional Studies I aims to provide students
intending pursuing undergraduate studies in Medicine and the Health Sciences with a
grounding in the strategies of teaching and learning utilized in those courses. From a
content base centred on health related issues, the problem-based learning approach
develops in students a range of academic skills including research, writing, group
interaction and critical analysis.
Contact: 5 hours per week
Assumed Knowledge: Nil

UNIP161 Introduction to Health Professional Studies II
Unit Value: 10
UNIP161 Introduction to Health Professional Studies II aims to provide students
intending pursuing undergraduate studies in Medicine and the Health Sciences with a
grounding in the strategies of teaching and learning utilized in those courses. From a
content base centred on health related issues, the problem-based learning approach
develops in students a range of academic skills including research, writing, group
interaction and critical analysis.
Contact: 5 hours per week
Assumed Knowledge: UNIP160 Introduction to Health Professional Studies I

UNIP165 Mathematics I
Unit Value: 10
UNIP165 Mathematics I is assumed knowledge for UNIP166 Mathematics II. It
develops and consolidates the mathematical skills necessary for the successful study of
Business, Commerce, Economics and Information Technology courses at tertiary level at
Australian Institutions.
Contact: 6 hours per week
Assumed Knowledge: Mathematical techniques equivalent to NSW Year 10 School Certificate.

UNIP166 Mathematics II
Unit Value: 10
UNIP166 Mathematics II develops and consolidates the mathematical skills necessary for the successful study of Business, Commerce, Economics and Information Technology courses at tertiary level at Australian Institutions.
Contact: 6 hours per week
Assumed Knowledge: UNIP165 Mathematics I

UNIP168 Mathematics for Health Sciences I
Unit Value: 10
UNIP168 Mathematics for Health Sciences I covers the topics of arithmetic and calculation, basic algebra, equations, descriptive statistics and probability
Contact: 4 hours per week
Assumed Knowledge: NSW School Certificate Intermediate level mathematics

UNIP169 Mathematics for Health Sciences II
Unit Value: 10
UNIP169 Mathematics for Health Sciences II covers the topics of functions and mathematical modelling; sequences and series; statistics and bivariate data; probability and exponential growth and decay.
Contact: 4 hours per week
Assumed Knowledge: UNIP168 Mathematics for Health Sciences I

UNIP170 Microeconomic Principles
Unit Value: 10
UNIP170 Microeconomic Principles is designed to develop an understanding of key microeconomic concepts and an awareness of the broad theoretical foundations and contemporary economic problems and issues facing individuals, firms, institutions and government.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP171 Macroeconomic Principles
Unit Value: 10
UNIP171 Macroeconomic Principles provides an understanding of the content, processes and terminology of macroeconomic concepts and an understanding of the potential consequences of macroeconomic decisions in the Australian economy. This course is also offered in the Summer School.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

UNIP175 Physics I
Unit Value: 10
UNIP175 Physics I in conjunction with UNIP176 Physics II is designed to provide
students with an opportunity to develop the skills necessary for learning about Physics. Using selected topics as vehicles for specific skill development students are prepared for undergraduate course requiring some study of Physics.
Contact: 3 hours per week
Assumed Knowledge: UNIP175 Physics I must be taken as a co-requisite
with UNIP176 Physics II to form a complete study of Physics for students intending to enter Science/Engineering degrees.

UNIP176 Physics II
Unit Value: 10
UNIP176 Physics II in conjunction with UNIP175 Physics I is designed to provide
students with an opportunity to develop the skills necessary for learning about Physics. Using selected topics as vehicles for specific skill development students are prepared for undergraduate course requiring some study of Physics.
Contact: 3 hours per week
Assumed Knowledge: UNIP176 Physics I 11 must be taken as a co-requisite
with UNIP175 Physics I to form a complete study of Physics for students intending to enter Science/Engineering degrees.

UNIP180 Studies in Interaction
Unit Value: 10
UNIP180 Studies in Interaction asks students to consider people’s interaction with
place and other people. It examines the nature of interaction in a variety of contexts.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP190 Design Drawing
Unit Value: 10
UNIP190 Design Drawing allows students to explore sketching, colour theory,
design, concept visualization, drawing and basic rendering techniques. It is expected that
students will acquire various resources that will be assistive in a teaching learning
environment.
Contact: 2 hours per week
Assumed Knowledge: Nil

UNIP191 Design in Society
Unit Value: 10
Design in Society is part of a suite of subjects designed to prepare students for
undergraduate study in the areas of design and architecture. It provides students with an
opportunity to recognize the interdependence between design and culture,
including the use of the World Wide Web as a research tool.
Contact: Two lecture hours per week
Assumed Knowledge: Nil

UNIP192 Graphic Design Fundamentals
Unit Value: 10
UNIP192 Graphic Design Fundamentals is designed to provide students with an
opportunity to develop the skills necessary for learning about
Physics. Using selected topics as vehicles for specific skill development students are prepared for undergraduate course requiring some study of Physics.
Contact: 3 hours per week
Assumed Knowledge: Nil

UNIP195 Introduction to Performance
Unit Value: 10
This subject forms a part of the suite of subjects designed to prepare students for
entrance to the Bachelor of Music degree. It is centred on performance to an appropriate standard in the field of choice whether that be instrument or voice.
Assumed Knowledge: Nil

UNIP196 Performance
Unit Value: 10
This subject forms a part of the suite of subjects designed to prepare students for
entrance to the Bachelor of Music degree. It is centred on performance to an appropriate standard in the field of choice whether that be instrument or voice.
Assumed Knowledge: Nil

UNIP197 Introduction to Materials of Music
Unit Value: 10
This subject forms a part of the suite of subjects designed to prepare students for entry
into the Bachelor of Music degree. It places emphasis on an understanding of both
harmony and aural skills as the rudimentary elements of good musicianship.
Contact: 3 hours per week
Assumed Knowledge: Fluency in the reading of music, both on a single line and as a piano score.
UNIP198  Materials of Music

Unit Value: 10

This subject forms a part of the suite of subjects designed to prepare students for entry to the Bachelor of Music degree. It places emphasis on an understanding of both harmony and aural skills as the rudimentary elements of good musicianship.

Contact: 3 hours per week

Assumed Knowledge: UNIP197 Introduction to Materials of Music