Undergraduate and Postgraduate Courses 2003

Listing includes English Language and Foundation Studies, and Unipath courses

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Undergraduate Programs

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AART1010 Foundations in Creative Arts  
Units: 10  
Locations: Callaghan  
This course is restricted to students enrolled in the Bachelor of Teaching/Bachelor of Arts degree.  
Introduces students to the K-6 Creative Arts Syllabuses 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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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 highlight 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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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 AART1400  

AART1920 Visual Arts Theory  
Units: 10  
Locations: Callaghan  
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: AART1210/Modernism  

AART2200 2-D Art: Colour and Experimental Media  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
Builds on the student’s knowledge of three-dimensional practices in contemporary art. Set projects emphasise a range of 3-D processes which develop the student's technical knowledge and skill acquisition. 3-D practices will be introduced in terms of their conceptual content. The workshops will place strong emphasis upon individual development. The concept of self-directed work practice will be introduced. 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  
Units: 10  
Locations: Callaghan  
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. Strong emphasis is placed upon experimentation and the exploration of ideas.  
Assumed Knowledge: Assumed knowledge applies.  

AART2400 Photomedia: Studio to Bureau  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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
Units: 10
Locations: Callaghan
The emphasis in this study is on the examination and critical analysis of topical theoretical 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

AART3010 Writing and Art Theory
Units: 10
Locations: Callaghan
Examines the range of approaches to contemporary writing in the visual arts. Although the scope of the material included will be wide, including popular media texts, the emphasis will be on developing creative, speculative and innovative approaches to writing art theory.
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses and AART3000 or equivalent

AART3020 Australian Art History
Units: 10
Locations: Callaghan
Examines Australian art history using a range of interpretive frameworks. Students are given scope to develop a specialist interest encompassing traditional and contemporaneous practice. This course will bring students to Newcastle Region Art Gallery to experience directly the materiality of artworks.
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses

AART3040 Historical Perspectives on Photomedia
Units: 10
Locations: Callaghan
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

AART3050 The Arts in Health and Community
Units: 10
Locations: Callaghan
Enables students to develop a broad understanding of the Arts in Health and Community, and provides an opportunity to explore theoretical and practical issues in an interdisciplinary learning climate.
Assumed Knowledge: Equivalent to 20 units of 2000 level Art Theory courses

AART3070 Drawing for Double Degree Students
Units: 10
Locations: Callaghan
Introduces to Bachelor of Teaching/Bachelor of Fine Art 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

AART3110 Analysis of the Visual Image
Units: 10
Locations: Callaghan
Presents an investigation of the specific nature of the visual image as a form of representation and communication. To give coherence to the diverse theoretical source materials examined, this study will follow the broad theme of the relationship between words and pictures, with emphasis on the debate over the conventional versus the natural image. A degree of specialisation is encouraged across the scope of painting, prints, photography, popular imagery and the digital image. Web delivery option.

AART3120 The 3-D Arts Since 1900
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Presents 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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
 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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 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
Units: 10
Locations: Callaghan
Fosters sustained investigation, experimentation and analysis of the student’s creative endeavours within a three-dimensional framework. With the encouragement of lecturers, 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 AART3300
AART3320 Site Specific Sculpture
Units: 10
Locations: Callaghan

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 opportunity 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
Units: 10
Locations: Callaghan

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, theoretical, technical 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

AART3330 Multi-Media Sculpture
Units: 10
Locations: Callaghan

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, theoretical, technical 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

AART3330 Multi-Media Sculpture
Units: 10
Locations: Callaghan

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, theoretical, technical 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

AART3330 Multi-Media Sculpture
Units: 10
Locations: Callaghan

Introduces students to a 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

AART3340 Paper as Form
Units: 10
Locations: Callaghan

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

AART3340 Paper as Form
Units: 10
Locations: Callaghan

Introduces students to a 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
Units: 10
Locations: Callaghan

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 activities. 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
Units: 10
Locations: Callaghan

Builds on the student's 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 repeatedly. Emphasis is placed on experimentation and the exploration of ideas. 
Assumed Knowledge: Successful completion of AART1300 and AART1310

AART3400 Photomedia: Research and Practice
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

Students will produce work in colour or black & white photography with research and creative development in studio lighting Photomedia area. 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
Units: 10
Locations: Callaghan

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
Units: 10
Locations: Callaghan

This elective course offers the student an opportunity to investigate black and white (silver gelatine) photography from the perspective of expanding their knowledge of extensive technical processes and applications. The use of archival materials in the production of fine art quality photographs is a priority in this course. 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

Guide to Undergraduate and Postgraduate Courses - 2003
Printmaking, Sculpture and written work or advanced written work in Theory. It is a specialisation including Ceramics, Fibres/Textiles, Painting, Photography, comprising a combination of advanced studio artwork in a selected area of study.

**Units:**
AART4130 Honours C

**Assumed Knowledge:** 1000 and 2000 level BFA courses

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**AART3780 Experimental Drawing**

**Units:** 10
**Locations:** Callaghan

Emphasises contemporary conceptual and creative directions available to drawing practitioners. Students are exposed to and challenged by a range 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).

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**AART3790 Observational and Expressive Drawing**

**Units:** 10
**Locations:** Callaghan

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).

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**AART4110 Honours A**

**Units:** 20
**Locations:** Callaghan

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

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**AART4120 Honours B**

**Units:** 20
**Locations:** Callaghan

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

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**AART4130 Honours C**

**Units:** 20
**Locations:** Callaghan

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

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**AART4140 Honours D**

**Units:** 20
**Locations:** Callaghan

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 AART410, AART4120 & AART4130 as together the four components comprise the Honours program. The course is studied through internal mode.

**Assumed Knowledge:** BFA or equivalent

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**AART6210 Art Theory and Image Analysis**

**Units:** 10
**Locations:** Callaghan

This course, which will primarily be delivered via the Internet, presents a range of methodologies used in visual image analysis and contemporary art theory research. Emphasis will be placed on the location and critical appraisal of resources as well as the practical application of theoretical models.

**Assumed Knowledge:** Equivalent to an undergraduate qualification in visual art or education with an art related major.

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**AART6220 Art and Ideas**

**Units:** 10
**Locations:** Callaghan

This course will address current issues in contemporary arts practice. Using exemplary material drawn from recent major exhibitions and publications, particular emphasis will be placed on the shifting modes of production, presentation and display in contemporary art. Issues of artistic intention and public or audience reception of ideas will also be explored.

**Assumed Knowledge:** Equivalent to an undergraduate qualification in visual art and or education with an art related major.

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**AART6230 Master Class 1**

**Units:** 10
**Locations:** Callaghan

An essential principle of the coursework masters is master classes in the specified discipline. Studio based workshops will be coordinated by Faculty staff but also include invited practitioners with a contemporary profile who will contribute to the teaching.

**Assumed Knowledge:** Successful completion of AART1230 and AART1240 (or equivalent).

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**ABOR1110 Introduction to Aboriginal Studies**

**Units:** 10
**Locations:** Central Coast

Investigates the basic concept of land ownership and the devastating effects of dispossession and assimilation. A general background in issues such as land rights, education, health, welfare, housing and employment is provided.

**Assumed Knowledge:** Nil

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**ABOR1120 Aboriginal Cultural Studies II**

**Units:** 10
**Locations:** Callaghan

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.

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**ABOR1330 Traditional Aboriginal Society**

**Units:** 10
**Locations:** Central Coast

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

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**ABOR1340 Aboriginal Health Past and Present**

**Units:** 10
**Locations:** Callaghan

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
Units: 10
Locations: Callaghan
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: N/A

ABOR1360 Aboriginal Leadership
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 Working Group on Indigenous Populations. The right of self-determination will be examined in the context of international law as will 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 defence of human rights.
Course will be taught in the internal mode of delivery.
Assumed Knowledge: Nil

ABOR1410 Academic Communication
Units: 10
Locations: Callaghan
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. Mode of delivery is internal, Callaghan.
Assumed Knowledge: N/A

ABOR1420 Communicating with Aboriginal People
Units: 10
Locations: Callaghan
Designed to increase the basic level knowledge and understanding of the most effective means of communication with Aboriginals and their communities. The course covers an introduction of communication processes from traditional to contemporary situations. 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 Aboriginals in contemporary media. The course utilises oration and talking circle*.
Mode of delivery is internal, Callaghan.
Assumed Knowledge: ABOR1410 or equivalent background in Aboriginal or Indigenous studies and/or experiences.

ABOR2100 Aboriginal Cultural Studies III
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ABOR1210, ABOR1220

ABOR2110 Aboriginal Cultural Studies IV
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ABOR1210, ABOR1220, ABOR123

ABOR2120 Communication Studies III
Units: 10
Locations: Callaghan
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

ABOR2121 Constructions of Aboriginality in Print Communic.
Units: 10
Locations: Callaghan
The course will cover constructions and representations of Indigenous peoples in print mediums such as fictional and non-fictional literature, journals, newspapers and other forms of print documentation. Students will compare Indigenous and non-Indigenous versions of events; examine the creation and use of popular images and stereotypes; and study Indigenous appropriation of print mediums. The course will encourage students to question, analyse and explore how, since colonisation, different print forms of communication have represented Indigenous affairs.
Assumed Knowledge: ABOR 1410 and ABOR 1420

ABOR2130 Communicating Indigenous - Oral Traditions
Units: 10
Locations: Callaghan
This course will provide students with practical and theoretical experience based on group work process. Group work will be utilised as a practical learning tool. The course will critique and analyse oral communication in ways, which communication Aboriginal spirituality and well-being. Communication techniques such as interpersonal/counselling skills will be taught to students utilising an Aboriginal perspective through story telling as a group healing process. Aboriginal ‘ways of being’ will be taught as a way of working with and understanding Indigenous peoples and to demonstrate the importance of maintaining oral traditions.
Assumed Knowledge: Students will need a basic understanding of Aboriginal society equivalent to ABOR1110 and study and/or experience equivalent to ABOR1370, ABOR1360 and ABOR2470.

ABOR2131 Communicating Indigenous - Oral Traditions
Units: 10
Locations: Callaghan
This course will provide students with practical and theoretical experience based on group work process. Group work will be utilised as a practical learning tool. The course will critique and analyse oral communication in ways, which communicate Aboriginal spirituality and well-being. Communication techniques such as interpersonal/counselling skills will be taught to students utilising an Aboriginal perspective through story telling as a group healing process. Aboriginal ‘ways of being’ will be taught as a way of working with and understanding Indigenous peoples and to demonstrate the importance of maintaining oral traditions.
Assumed Knowledge: Students will need a basic understanding of Aboriginal society equivalent to ABOR1110 and study and/or experience equivalent to ABOR1370, ABOR1360 and ABOR2470.
ABOR2230 Contact Aboriginal Society I
Units: 10
Locations: Callaghan
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 court. A detailed look at the frontier will be undertaken by using the Newcastle/Hunter area in particular and other case studies.
Assumed Knowledge: ABOR1330

ABOR2240 Contact Aboriginal Society II
Units: 10
Locations: Callaghan
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, ABOR1330, ABOR2230

ABOR2250 Comparative Indigenous Studies I
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Investigates Aboriginal health in a pacific 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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 lectures 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.

ABOR2480 Planning in Aboriginal Communities
Units: 10
Locations: Callaghan
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 and/or experience equivalent to ABOR1370, ABOR1360 and ABOR2470.

ABOR3010 Aboriginal Cultural Studies V
Units: 10
Locations: Callaghan
Examines Aboriginal and Torres Strait Islander peoples. Specific health issues affecting Aboriginal communities.
The principal teaching style will be through lecture and tutorial. Mode of delivery is internal, Callaghan Campus.
Assumed Knowledge: ABOR1110, ABOR1210, ABOR2100, ABOR2110

ABOR3020 Communication Studies V
Units: 10
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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 Indigenous society and culture equivalent to ABOR121/ABOR111, ABOR122/ABOR133, ABOR210/ABOR223, ABOR211/ABOR224 and ABOR301/ABOR312.

ABOR3120 Contemporary Aboriginal Society I
Units: 10
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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, 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.

ABOR3340 Aboriginal Health Research
Units: 10
Locations: Callaghan
This course explores the concept of public health and epidemiology in relation to Aboriginal health. The course provides an introduction to epidemiological concepts and knowledge of the application of methods in biostatistics, social sciences and economics in relation to Aboriginal Health. This course aims to introduce students to common epidemiology terms, statistics, risk, cause and bias. The course provides an overview of the research published in relation to Aboriginal health research. The course will encourage students to question, analyse and explore how, since colonisation, Aboriginal health research has been conducted and reported.

Assumed Knowledge: ABOR 1340, ABOR1350, ABOR2340, ABOR2350

ABOR3500 Aboriginal Education, Policies and Issues
Units: 10
Locations: Callaghan
Central Coast
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 involving Aboriginal participation and anti-racism strategies.

Assumed Knowledge: Nil

ABOR4010 Aboriginal Studies Honours 1
Units: 20
Locations: Callaghan
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 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
Units: 20
Locations: Callaghan
ABOR4020 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
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
ABOR4040 must be studied in conjunction with ABOR4010, ABOR4020 and ABOR4030, 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.

ABOR6001 Aboriginal Foundation Studies
Units: 10
Locations: Callaghan
“Country is alive with information for those who have learned to understand.” (D. Bird- Rose 2000 p.225)

This course provides an understanding of the relevant issues underlying traditional Indigenous societies. It explores the underpinning of all relationships and interactions of Indigenous family networks and demonstrates the vitality of cultures that still exist in NSW and elsewhere. Indigenous philosophy and its impact on the understanding of country is an essential component of the course.

Assumed Knowledge: Nil

ABOR6002 Decolonisation: An Australian Context
Units: 10
Locations: Callaghan
“The heritage of an indigenous people is not merely a collection of objects, stories and ceremonies, but a complete knowledge system with its own concepts of epistemology, philosophy, and scientific and logical validity.” (Battiste, M. 2000 p.19)

This subject has been designed to explore the process and framework by which Indigenous peoples currently find ourselves addressing issues within, a framework that embodies the concept of decolonisation. This subject will analyze the process and impact of colonization and imperialism on Indigenous Australians, specifically, eurocentrism and the resulting representation of Aboriginal Australians. It will explore the confluence of differing world views, Indigenous and non-Indigenous.

Assumed Knowledge: Nil

ABOR6003 Contemporary Aboriginal Studies
Units: 10
Locations: Callaghan
“The idea of contested stories and multiple discourses about the past, by different communities, is closely linked to the politics of everyday contemporary indigenous life. It is very much the fabric of communities that value oral ways of knowing. These contested accounts are stored within genealogies, within the landscape, within weavings and carvings, even within the personal names that people carried. The means by which these histories were stored was through their systems of knowledge.” (Tuhiwai Smith, L. 1999, p.33)

This course has been designed to provide the foundation to knowledge within the course work masters. The issues are relevant to the current debates within the contemporary Aboriginal and non-Aboriginal communities. The final weeks of the course will entail students looking at their local Aboriginal communities, in particular their response to government policies, media coverage and successful community projects.

Assumed Knowledge: Understanding of traditional Aboriginal Society
ACFI2240 Intro to Spreadsheet Modelling in Financial Mgt
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ACFI1010, INFO1010 and STAT1050 or ECON1130

ACFI3010 Financial Accounting Theory Construction
Units: 10
Locations: Central Coast
Presents various approaches to the formulation of an accounting theory.
Assumed Knowledge: ACFI2020

ACFI3020 Reconstruction of Accounting
Units: 10
Locations: Central Coast
Evaluates financial accounting as a mechanism for generating useful financial data. Debates issues arising from the use of financial accounting data.
Assumed Knowledge: ACFI2020

ACFI3030 Accounting and Decision Support Systems
Units: 10
Locations: Central Coast
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: ACFI2030

ACFI3050 Auditing Theory And Method
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Callaghan
Assumed Knowledge: ACFI3170 - TAXATION A

ACFI3110 Accounting And Small Enterprise
Units: 10
Locations: Callaghan
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: ACFI3110 - 30 units at 200 level of ACFI courses

ACFI3120 International Accounting
Units: 10
Locations: Callaghan
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: ACFI3010 - Corporate Accounting and Reporting

ACFI3130 Investments
Units: 10
Locations: Callaghan
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: ACFI2080, INFO1010

ACFI3140 International Finance
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Deals with the current status and historical development of selected issues in Management Accounting. 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 reference information.
Assumed Knowledge: ACFI3040

ACFI3170 Taxation in Australia
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: Not applicable

ACFI3190 Financial Institutions Risk Management
Units: 10
Locations: Callaghan
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, ECON2350, ECON2520, ECON2540

ACFI3300 Accounting and Finance: A User’s Perspective
Units: 10
Locations: Callaghan
Not available to students enrolled in programs offered by the Faculty of Business and Law.
The fundamental aspects of financial statements and finance are examined within their roles of providing managers with information for more effective organisational resource decisions.
Assumed Knowledge: N/A

ACFI4030 Accounting IVA
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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

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ACFI4060 Accounting IVD
Units: 20
Locations: Callaghan
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

AHIS1010 Greece to the Persian Wars
Units: 10
Locations: Callaghan
Examines the history of Greece from the Bronze Age until the end of the Persian Wars, using both archaeological and literary evidence. In so doing it explains the rise of one of the most influential of all ancient cities, democratic Athens. Hence it introduces the world of ancient Greece, preparing the way for further study of Greece at 3000 level, and its methodology serves as an introduction to ancient history in general.
Assumed Knowledge: None

AHIS1040 War in the Ancient World
Units: 10
Locations: Callaghan
This course will examine, by means of case studies, a number of aspects of the prosecution of war in the ancient world. The course will consider the attitudes, roles and actions of the warring parties, and the impact warfare has on combatants and non-combatants alike.
Assumed Knowledge: No assumed knowledge

AHIS3020 Late Roman Republic
Units: 10
Locations: Callaghan
Examines the history of the Late Roman Republic from the late 2nd Century BC down to the assassination of Caesar in 44BC. The primary focus of the course is upon the political climate of the period and the pressures brought to bear upon the institutions of Rome by external factors and individual ambition. Emphasis is placed upon the use of ancient source material in translation (incorporating Greek and Roman value terms) in conjunction with modern scholarly opinion.
Assumed Knowledge: Callaghan
20 units at any level in Ancient History or History
Central Coast:
Experience of Ancient History or History at 100 level or equivalent

AHIS3120 The Julio-Claudians: The Emergence of Empire
Units: 10
Locations: Callaghan
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

AHIS3130 Roman Britain and Anglo-Saxon England
Units: 10
Locations: Callaghan
Examines the history of Britain from the period of the arrival of Caesar in 55BC to the era of Alfred the Great in the 9th Century AD. The major focus of the course is the impact of the Roman invasion upon the Celtic inhabitants; the development of Roman administrative and lifestyle; the end of the Roman presence in the face of developments on the Continent; the coming of the Anglo-Saxons; and the subsequent history and culture of the English until the age of Viking invasion and the reign of Alfred.
Assumed Knowledge: Ancient source material in translation and archaeological evidence, taken in conjunction with modern scholarly opinion.
20 units at any level in Ancient History or History

AHIS3140 Philip II and Alexander the Great
Units: 10
Locations: Callaghan
Examines the origins and the early history of the Macedonian state, prior to an analysis of the reign of Philip II and his relations with the Greek states, down to his assassination and the accession of Alexander in 336 B.C. The course then examines Alexander's career as a general and statesman, the Persian and Indian campaigns, Alexander's personality, reputation and aspirations for godhead.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3320 Greek and Roman Comedy
Units: 10
Locations: Callaghan
Examines critically the growth of the comic genre from Greek Old Comedy (Aristophanes), through Greek New Comedy (Menander), to the Roman Comedy of Plautus and Terence.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3350 Greek and Roman Erotic Poetry
Units: 10
Locations: Callaghan
Examines works of erotic literature produced from earliest Greek times down to the Age of Augustus. The course consists of an introductory treatment of eroticism. Homer and Greek writers of lyric and drama; the views of philosophers; treatment of homosexuality and lesbianism in literature; the main amatory writers of Rome, Catullus, Propertius, and Ovid. There will be some treatment of visual material by way of linkage to contemporary mores and values.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3500 Sport and Spectacle in Antiquity
Units: 10
Locations: Callaghan
This course traces the origins of sport in the Greek world through to the gladiatorial spectacles of the Roman arena. It focuses upon its role in the celebration and definition of cultural identity, the impact of sporting success upon competitors and their places of origin, its impact upon spectators, its significance as a cultural phenomenon and the uses to which it was put by individual rulers and states, especially spectacle as entertainment and propaganda. Attention is also paid to the representation of athleticism, notions of manliness, and beauty in literature and art.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3510 Greek Society
Units: 10
Locations: Callaghan
Examines the origins and the early history of the Macedonian state, prior to an analysis of the reign of Philip II and his relations with the Greek states, down to his assassination and the accession of Alexander in 336 B.C. The course then examines Alexander's career as a general and statesman, the Persian and Indian campaigns, Alexander's personality, reputation and aspirations for godhead.
Assumed Knowledge: 20 units at any level in Ancient History or History

AHIS3550 Greek and Roman Mythology
Units: 10
Locations: Callaghan
Examines the history of the Late Roman Republic from the late 2nd Century BC down to the assassination of Caesar in 44BC. The primary focus of the course is upon the political climate of the period and the pressures brought to bear upon the institutions of Rome by external factors and individual ambition. Emphasis is placed upon the use of ancient source material in translation (incorporating Greek and Roman value terms) in conjunction with modern scholarly opinion.
Assumed Knowledge: Callaghan
20 units at any level in Ancient History or History
Central Coast:
Experience of Ancient History or History at 100 level or equivalent

AHIS4140 Classical Studies Honours I
Units: 20
Locations: Callaghan
This course is studied in conjunction with AHIS4140, AHIS4146, and AHIS4170.
These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours program in the history, society and literature of Greek and Roman antiquity. Knowledge of Greek and Latin is not essential, but may be useful. Those without such knowledge are encouraged to acquire some part of their programme. This component consists of a supervised thesis for which supervision is by arrangement.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent

AHIS4150 Classical Studies Honours II
Units: 20
Locations: Callaghan
This course is studied in conjunction with AHIS4140, AHIS4146, and AHIS4170.
These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours program in the history, society and literature of Greek and Roman antiquity. Knowledge of Greek and Latin is not essential, but may be useful. Those without such knowledge are encouraged to acquire some part of their program. The major mode of delivery will be through small seminar-style classes.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent

AHIS4160 Classical Studies Honours III
Units: 20
Locations: Callaghan
This course is studied in conjunction with AHIS4140, AHIS4145, and AHIS4170.
These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. The four courses together constitute an Honours program in the history, society and literature of Greek and Roman antiquity. Knowledge of Greek and Latin is not essential, but may be useful. Those without such knowledge are encouraged to acquire some part of their program. The major mode of delivery will be through small seminar-style classes.
Assumed Knowledge: An undergraduate major sequence in Ancient History or equivalent.
ARCH1120 Architecture 1 (Part 2)

Units: 40
Locations: Callaghan

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 course. Students are presented with a series of design exercises that require the application of knowledge and skills from the 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)

Units: 40
Locations: Callaghan

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 the 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)

Units: 40
Locations: Callaghan

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 the 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 Architecture 2 (Part 1) or equivalent (including TAFE and international articulation arrangements).

ARCH3110 Architecture 3 (Part 1)

Units: 40
Locations: Callaghan

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)

Units: 40
Locations: Callaghan

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: ARCH2110 & ARCH2120 or equivalent
ARCH6200 Architecture Management
Units: 10
Locations: Callaghan
The course will introduce advanced management topics appropriate to the architectural profession within a context of: international and inter-disciplinary professional consultancy; innovative project funding and procurement methods; and facilities management.
Assumed Knowledge: Completion of Bachelor of Architecture or equivalent
Professional Registration as an Architect or Demonstrated industry experience

ARCH6210 Environmental Architecture
Units: 10
Locations: Callaghan
Addresses the management of sustainable architectural design for energy efficiency, environmental performance, reduced resource utilisation and reduced environmental impacts.
Assumed Knowledge: Completion of Bachelor of Architecture ARCH 510 or equivalent
Professional Registration as an Architect or Demonstrated industry experience or
Prior learning through RAIA approved PD programs.

ARCH6240 Architectural Theory 1
Units: 10
Locations: Callaghan
This course is available to Graduate Certificate in Applied Management (Architecture) and Master in Applied Management (Architecture) students only.
The course examines contemporary and twentieth-century architectural movements and relates major theoretical themes to the students’ workplace experience.
Assumed Knowledge: Completion of Bachelor of Architecture ARCH 510 or equivalent
Professional Registration as an Architect or Demonstrated industry experience or
Prior learning through RAIA approved PD programs.

ARTC1000 Intro to Art Hist/Theory
Units: 10
Locations: Central Coast
Introduces the historical framework which informs contemporary Australian art theory and practice. Emphasis will be placed on developing research and writing skills along with the ability to critically analyse cultural images and artefacts.
Assumed Knowledge: N/A

ARTC1010 Art History/Theory: Aboriginal Art & Asia-Pacific
Units: 10
Locations: Central Coast
Introduces the historical framework which informs contemporary Australian art theory and practice. Emphasis will be placed on developing research and writing skills along with the ability to critically analyse cultural images and artefacts.
Contact hours: 3 hours per week.
Assumed Knowledge: N/A

ARTC1020 Digital Imaging 1A
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: ARTC1040

ARTC1060 Foundation Drawing
Units: 10
Locations: Central Coast
Introduces 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
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: N/A

ARTC1410 Australasian Theatre and Performance
Units: 10
Locations: Central Coast
Examines the socio-cultural, political, economic and aesthetic significance of theatre and performance in Australasia. 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
Units: 10
Locations: Central Coast
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: NA

ARTC2000 Art History and Theory: Images and Interpretation
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Callaghan
Central Coast
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)
Units: 10
Locations: Central Coast
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 objects. Digital cameras and their application to colour, black and white and slide production.
Contact hours: 3 hours per week.
Assumed Knowledge: HFA102 or HFA103.
ARTC2030 Digital Imaging 2B

Units: 10
Locations: Central Coast

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

Units: 10
Locations: Central Coast

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. 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 course. 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

Units: 10
Locations: Central Coast

Seeks to continue the links with the Art History/Theory course. The major topics covered are History and Ideology and Gender within current views of Art History. 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 understanding allowing students to form a personal language, confidence and individual direction essential to fulfill the demands of the final year.

Assumed Knowledge: ARTC2040 Concurrent knowledge ARTC2010

ARTC2060 Drawing Workshop: Observational Drawing

Units: 10
Locations: Central Coast

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

Units: 10
Locations: Central Coast

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 studios.

Assumed Knowledge: ARTC2060, Assumed concurrent knowledge ARTC2010

ARTC2200 Foundations in Art Making

Units: 10
Locations: Central Coast

Provides students with a foundational knowledge of elements of dance, art, drama and music. Thematic based, it will examine ways in which the four arts forms can be integrated to create art that is dynamic and expressive, building upon basic understandings of the nature and purpose of these arts forms.

Assumed Knowledge: Nil

ARTC3000 Body and Environment

Units: 10
Locations: Central Coast

Examines students to contemporary areas of debate in the visual arts in relation to the Body and the Environment. Themes discussed will include the body in installation, ritual and performance art, photography and environmental art. Emphasis will be placed on the employment of critical theories but will be applied to contemporary art with a focus on the work of Australian artists.

Assumed Knowledge: It is desirable that students have successfully completed 2000 level courses in the Bachelor of Fine Art degree or related Arts courses and are competent in essay writing skills.

ARTC3010 Art His & Th: Memory, History, Interdisciplinarity

Units: 10
Locations: Central Coast

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: HFA203

ARTC3020 Digital Imaging 3A

Units: 10
Locations: Central Coast

Provides students with an opportunity of continuing the use of new 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

Units: 10
Locations: Central Coast

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.

Assumed Knowledge: ARTC2030, ARTC2050, ARTC2070

ARTC3040 Painting Workshop 3A

Units: 10
Locations: Central Coast

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

Units: 10
Locations: Central Coast

The students, in close consultation with lecturers, will outline a proposal for a work program of thirteen weeks. This working program will be established 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 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

Units: 10
Locations: Callaghan

Allows students to explore a range of creative directions for example drawing, 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

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Guide to Undergraduate and Postgraduate Courses - 2003
Assumed Knowledge: Bachelor of Fine Art Degree or equivalent with an understanding of research methodologies and theories to conduct practice-based research, which will be analyzed and articulated in a dissertation. Areas of focus may include creative writing, performance, painting, drawing, digital imaging, or interdisciplinary practice.

Assumed Knowledge: Students applying for entry to the honours program must have a Bachelor of Arts degree or equivalent, normally with a major in Creative Arts or related field.

ARTC4400 Creative Arts Honours A
Units: 20
Locations: Central Coast
ARTC4401, ARTC4402, ARTC4403 together constitute the honours program in Creative Arts, which comprises a combination of substantial research in both practical and written work. They will build upon a student’s abilities to understand the appropriate methodologies and theories to conduct practice-based research, which will be analyzed and articulated in a dissertation. Areas of focus may include creative writing, performance, painting, drawing, digital imaging, or interdisciplinary practice.

Assumed Knowledge: Students applying for entry to the honours program must have a Bachelor of Arts degree or equivalent, normally with a major in Creative Arts or related field.

ARTC4401 Creative Arts Honours B
Units: 20
Locations: Central Coast
ARTC4400, ARTC4401, ARTC4402, ARTC4403 together constitute the honours program in Creative Arts, which comprises a combination of substantial research in both practical and written work. They will build upon a student’s abilities to understand the appropriate methodologies and theories to conduct practice-based research, which will be analyzed and articulated in a dissertation. Areas of focus may include creative writing, performance, painting, drawing, digital imaging, or interdisciplinary practice.

Assumed Knowledge: Students applying for entry to the honours program must have a Bachelor of Arts degree or equivalent, normally with a major in Creative Arts or related field.

ARTC4402 Creative Arts Honours C
Units: 20
Locations: Central Coast
ARTC4400, ARTC4401, ARTC4402, ARTC4403 together constitute the honours program in Creative Arts, which comprises a combination of substantial research in both practical and written work. They will build upon a student’s abilities to understand the appropriate methodologies and theories to conduct practice-based research, which will be analyzed and articulated in a dissertation. Areas of focus may include creative writing, performance, painting, drawing, digital imaging, or interdisciplinary practice.

Assumed Knowledge: Students applying for entry to the honours program must have a Bachelor of Arts degree or equivalent, normally with a major in Creative Arts or related field.

ARTC4403 Creative Arts Honours D
Units: 20
Locations: Central Coast
ARTC4400, ARTC4401, ARTC4402, ARTC4403 together constitute the honours program in Creative Arts, which comprises a combination of substantial research in both practical and written work. They will build upon a student’s abilities to understand the appropriate methodologies and theories to conduct practice-based research, which will be analyzed and articulated in a dissertation. Areas of focus may include creative writing, performance, painting, drawing, digital imaging, or interdisciplinary practice.

Assumed Knowledge: Students applying for entry to the honours program must have a Bachelor of Arts degree or equivalent, normally with a major in Creative Arts or related field.

ARTC3070 Interdisciplinary Practice B
Units: 10
Locations: Central Coast
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 artsforms. This course links closely with the final contract/proposal in Painting Workshop ARTC3050, integrates Art History/Theory and enables students to access the multifarious nature of contemporary art practice methodologies. It is important to differentiate from painting workshop 3B using an interdisciplinary approach to media and process.

Assumed Knowledge: ARTC3050, Concurrent Knowledge ARTC3050

ARTC3470 Directing & Performing in Contemp Community Perfora
Units: 20
Locations: Central Coast
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: It is assumed that students will have 20 units of first year creative arts courses prior to enrolling in this course.

ARTC3480 Body, Performance and Culture
Units: 10
Locations: Central Coast
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.

Assumed Knowledge: ARTC1450 Artistic Representations or equivalent

ARTC4000 Fine Art Honours A
Units: 20
Locations: Central Coast
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
Units: 20
Locations: Central Coast
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
Units: 20
Locations: Central Coast
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
Units: 20
Locations: Central Coast
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.
AVIA2340B Principles of Flying Practice 2 (Part B)
Units: 5
Locations: Callaghan
This course is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence. Part B addresses the CASA Instrument Rating syllabus and prepares students for the CASA IREX theory exam.
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 AVIA1240).
2. Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and report writing skills (as covered in SCIM1010 or INFO1010 after 2003).

AVIA2341 Instrument Flight Procedures
Units: 10
Locations: Callaghan
The course addresses the CASA Instrument Rating syllabus.
Assumed Knowledge: Aviation knowledge to the standard of the CASA Commercial Pilot Licence (CPL) syllabus.

AVIA2350A Air Transport Systems (Part A)
Units: 10
Locations: Callaghan
This course 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) Air Transport Pilot Licence (ATPL) Aerodynamics and Systems syllabus.
Develops competency with the fundamental knowledge defined in the syllabus and its application to generic 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.
Assumed Knowledge: 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)
Units: 10
Locations: Callaghan
This course 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 generic transport category aircraft, as specified by CASA as appropriate for the ATPL (e.g. Boeing767). The course 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.
Assumed Knowledge: The following knowledge is assumed in the delivery of the course 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 AVIA1240.

AVIA2351 Aircraft Propulsion Systems
Units: 10
Locations: Callaghan
This course addresses propulsion systems on a variety of aircraft applications. The topics include features of engine designs, principles of combustion, analysis of emissions associated with combustion, aviation gas turbines in the form of turbojets, turboprops and turboprop, afterburning, intake and exhaust aerodynamics in transonic and supersonic flight, performance of propulsion systems, matching performance to aircraft designs. The course covers but is not limited to the CASA Basic Gas Turbines (BGT) syllabus of the ATPL Aero Systems flight crew licencing subjects. Lab-work includes combustion analysis for emissions. A site visit allows inspection of gas turbine engine design features.
Assumed Knowledge: The following knowledge is assumed in the delivery of the course and its assessment: Numeracy skills: Fundamental HSC mathematical abilities, including resolving and adding vectors, interpretation and preparation of two dimensional graphs.

AVIA2352 Transport Aircraft Systems
Units: 10
Locations: Callaghan
This course addresses the aircraft systems to the applicable components of the CASA Air Transport Pilots’ Licence (ATPL) syllabus covered in a suite of ATPL oriented coursework available in the BSc (Aviation) program. This course focuses on the flight control, electrical and mechanical systems on FAR25 Transport Category Aircraft.
Assumed Knowledge: The following knowledge is assumed in the delivery of the subject and its assessment: Numeracy skills: Fundamental HSC mathematical abilities, including resolving and adding vectors, interpretation and preparation of two dimensional graphs.

AVIA2360 Commuter Category Aircraft Operations
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Knowledge of Aircraft Flight Planning, Navigation, Performance, Meteorology and Air Law to the standard of the CASA CPL syllabus (as covered by AVIA1240).

AVIA2370 Air Transport Meteorology
Units: 10
Locations: Callaghan
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 operational weather decisions. The approach to short-term forecasting aims to encourage pilots to develop a systematic method of weather trend and forecast assessment, a method that has a scientific basis but which can also be applied in real-time, high workload, and time constrained general aviation operations. The course incorporates the Civil Aviation Safety Authority (CASA) Airline Transport Pilot Licence (ATPL) Meteorology examination. Not available to students with a pass in AVIA2290.
Assumed Knowledge: Knowledge of meteorology to the standard of the CASA CPL syllabus requirements (as covered in AVIA1240). Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010 or INFO1010 after 2003).

AVIA2380 Air Transport Navigation
Units: 10
Locations: Callaghan
Assumed Knowledge: 1. Knowledge of Aircraft Navigation to the standard of the CPL syllabus (as covered by AVIA1240).

AVIA2390 Air Transport Aircraft Performance
Units: 10
Locations: Callaghan
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 AVIA1240).
2. Knowledge of Aircraft Performance and Loading for Commuter Category aircraft (as covered by AVIA2290).

AVIA3140A Directed Study (Part A)
Units: 5
Locations: Callaghan
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Designed for students interested in developing a specialist research topic under the supervision of an academic. Prior approval of a supervisor and the course coordinator is required and a detailed proposal indicating objectives and a work plan is to be submitted. Coverage includes research methods, processing and analysing data using computer applications.
Assumed Knowledge: Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010).

AVIA3140B Directed Study (Part B)
Units: 5
Locations: Callaghan
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Assumed Knowledge: Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010).
AVIA3141 Directed Study
Units: 10
Locations: Callaghan

Described for students interested in developing a specialist research topic under the supervision of an academic. Prior approval of a supervisor and the subject co-ordinator is required and a detailed proposal indicating objectives and a work plan is to be submitted. Coverage includes research methods, processing and analysing data using computer applications.

Assumed Knowledge: Knowledge and competence with email and web applications, word processing, spreadsheet, presentations software, and scientific report writing skills.

AVIA3260 International Aeronautical Meteorology
Units: 10
Locations: Callaghan

This course 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; and
- 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.

Assumed Knowledge: Knowledge of meteorology to the standard of the CASA ATPL syllabus requirements (as covered in AVIA2370).

AVIA3280 Aircraft Structural and Fatigue Management
Units: 10
Locations: Callaghan

The course aims to develop a working understanding of:

- fundamental concepts affecting airframe structural integrity;
- the influence of inertial and aerodynamic loads on the airframe structure during flight, landing and taxi;
- the contribution of materials and structures to airframe life and maintenance;
- environmental degradation of metal and composite airframes;
- identifying and locating structural fatigue cracks, and limitations inherent in these techniques; and
- methods used in the aviation industry to manage airframe life and the aircraft fleet.

Assumed Knowledge: The course 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 SCIM1010 or INFO1010 after 2003).

AVIA3290 Flight Control Dynamics
Units: 10
Locations: Callaghan

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.

Assumed Knowledge: 1. Knowledge and competence with word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010 or INFO1010 after 2003).
2. Knowledge of CPL aerodynamics and flight control systems (as covered in AVIA1400).
3. Knowledge of ATPL aerodynamics and flight control systems (as covered in AVIA1280 and AVIA2350).

AVIA3300 Air Transport Flight Planning
Units: 10
Locations: Callaghan


Assumed Knowledge: Knowledge of Aircraft Flight Planning to the standard of the CASA CPL syllabus (as covered by AVIA1240).

Knowledge of Aircraft Flight Planning for Commuter Category aircraft (as covered by AVIA2280).

AVIA3320 Air Transport Operations
Units: 10
Locations: Callaghan

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.

Assumed Knowledge: Knowledge of Aircraft and Operational Procedures and Air Law to the standard of the CASA CPL syllabus (as covered by AVIA1240).

AVIA3330 Satellite Systems & Air Traffic Management
Units: 10
Locations: Callaghan

Examines 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 WCNs), 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.

Assumed Knowledge: Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010 or INFO1010 after 2003).

Knowledge of Aircraft Navigation to the standard of the CASA CPL syllabus (as covered by AVIA1240).

Knowledge of Aircraft Navigation and GPS operations for Commuter Category aircraft (as covered by AVIA2260).

AVIA3340 Human Factors and Aviation Psychology
Units: 10
Locations: Callaghan

It is said that up to 80% of aircraft accidents involve human errors. Thus the study of human factors associated with aviation systems is essential for workers in the aviation industry. This course begins with a review of human factors concepts in the context of Civil Aviation Safety Authority (CASA) human performance and limitations (HPL) syllabus for the Airline Transport Pilot Licence (ATPL) examination. In addition, various aspects of the aviation socio-technical system are examined in terms of human factors, aviation psychology and safety. Selected aviation human factors research papers are discussed in terms of their relevance to and application in the operational environment.

Assumed Knowledge: Knowledge of human performance and limitations to the standard of the CASA CPL syllabus requirements as covered in AVIA1240, and an understanding of the concepts of human factors and resource management in groups and organisations, as covered in AVIA2250.

Knowledge and competence with email and web applications, word processing, spreadsheet, and presentation software, and scientific report writing skills (as covered in SCIM1010).

AVIA4110 Aviation Honours 4110
Units: 20
Locations: Callaghan

AVIA4110 is a 20 unit component of an 80 unit 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 paper for publication. 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 research over one year of study. Part-time students undertake the coursework in their first year of study and the research in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences.

AVIA4110 is equivalent to two seminars and associated coursework selected from optional units.

Assumed Knowledge: Students must have satisfied the Faculty’s requirements for entry to fourth year Aviation, including completion of 120 units of approved Aviation courses in years 1, 2 and 3 and including AVIA3140. SCIM1010 (or INFO1010 after 2003) is compulsory for students who commenced in 2000 or later.

AVIA4120 Aviation Honours 4120
Units: 20
Locations: Callaghan

AVIA4120 is a 20 unit component of an 80 unit 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 paper for publication. This research is carried out under the supervision of the Head of the School of Behavioural Sciences (Aviation). Full-time students complete the coursework and research over one year of study. Part-time students undertake the coursework in their first year of study and the research in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences.

AVIA4120 is equivalent to half the research component. Typically this relates to the research proposal, literature review, and experimental design phases of the study.

Assumed Knowledge: Students must have satisfied the Faculty’s requirements for entry to fourth year Aviation, including completion of 120 units of approved Aviation subjects in years 1, 2 and 3 and including AVIA3140. SCIM1010 (or INFO1010 after 2003) is compulsory for students who commenced in 2000 or later.

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AVIA4210 Aviation Honours 4210
Units: 20
Locations: Callaghan
AVIA4210 is a 20 unit component of an 80 unit 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 paper for publication. 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 research over one year of study. Part-time students undertake the coursework in their first year of study and the research in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry.

AVIA4220 Aviation Honours 4220
Units: 20
Locations: Callaghan
AVIA4220 is a 20 unit component of an 80 unit 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, analysis and reporting of a piece of original empirical research, presented as a paper for presentation. 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 research over one year of study. Part-time students undertake the coursework in their first year of study and the research in their second year of study. Any variation to these two programs requires the permission of the Head of the School of Behavioural Sciences.

AVIA6110 Human Factors in Aviation Systems
Units: 10
Locations: Callaghan
Covers a review of basic human factors principles and discussion of more advanced topics such as the implications of cockpit automation and ergonomics in cockpit and display design. The theoretical bases for system safety analysis, application in accident prevention and investigation, and implications for aviation management will also be discussed in detail.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry.

AVIA6120 Crew Resource Management
Units: 10
Locations: Callaghan
Promotes a deep understanding of the content of typical Crew Resource Management (CRM) courses by exploring the scientific research in key concept areas, including communication, leadership, decision making, situational awareness and conflict resolution. Issues in CRM program development, implementation, evaluation and regulation are addressed and students are provided with the theoretical knowledge base to facilitate design and evaluation of CRM programs.

Assumed Knowledge: It is expected that the majority of students would hold a CPL, ATPL or ATS license, and has significant industry experience and/or has completed an appropriate undergraduate degree or equivalent.

AVIA6130 Advanced Human Factors in Aviation
Units: 10
Locations: Callaghan
Introduce students to aspects of methodology in research and students are expected to complete a detailed study and critique of a number of recent, applied papers in the aviation human factors domain. In addition they are expected to select one specific topic area and produce a position paper to demonstrate their mastery of the subject matter in that area.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry.

AVIA6140 Human Factors in Specialised Operations
Units: 10
Locations: Callaghan
Students are expected to identify and carry out an applied human factors, work related research project or organisational analysis, under supervision, producing a detailed literature survey, methodological approach paper and a comprehensive result and discussion paper. The outcome of this work should be implementation ready at their place of work.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry.

AVIA6910 Foundations of Aviation
Units: 20
Locations: Callaghan
The student is expected to develop an understanding of aviation at a post-ATPL level in preparation for advanced specialist study. Students are able to tailor their study by selection of topics relevant to their interests and proposed area of study for their project in later subjects. Students can select subjects to the value of 20 credit points from the ‘200 level’ subjects from the undergraduate degree program, but are expected to read beyond the basic subject. Assessment will be at an appropriate post-graduate standard and may require additional work besides that expected of undergraduate students. Other topics can be substituted for one of the undergraduate degree program subjects, after consultation with appropriate staff members and with the approval of the Head of School.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry.

AVIA6920 Topics in Modern Aviation
Units: 20
Locations: Callaghan
Students are expected to develop a significant knowledge base in areas of advanced aviation. Students will be able to develop an understanding of modern aviation concepts that are important in the establishment and development of a research project. Students can select subjects to the value of 20 credit points from the ‘300 level’ subjects from the undergraduate degree program, but are expected to read beyond the basic subject. Assessment will be at an appropriate post-graduate standard and may require additional work besides that expected of undergraduate students. Other topics can be substituted for one of the listed subjects, after consultation with appropriate staff members and with the approval of the Head of School.

AVIA6930 Advanced Topics in Aviation
Units: 20
Locations: Callaghan
This unit provides students with the opportunity to tailor their study by selection of a topic area relevant to their interests, and particularly to the proposed area of study in their selected project and in consultation with a supervisor. Examples of topics include: safety in ground handling; aviation disaster management; cognitive task analysis; or aeronautical decision making. Students will be expected to analyse advanced aviation research literature and extract and interpret relevant information. They will develop analytical skills and knowledge necessary for the planning of appropriate research projects.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry. They will also have some skills in library research and report writing.

AVIA6940 Research Developments in Aviation
Units: 20
Locations: Callaghan
Students are expected to develop a thorough understanding of modern aviation concepts relevant to the pursuit of their research project. Students will also develop an understanding of research instrumentation, methodology and basic statistical analysis.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry. They will also have some skills in library research and report writing.

AVIA6950 Project I
Units: 20
Locations: Callaghan
This subject aims to introduce students to the practice of aviation research. Students will have the opportunity to review, plan and develop a research project, and initiate research on the project, under the direction of a senior academic researcher. They will develop a literature review and methodological outline appropriate for the reporting of scientific research, and make a formal presentation of these.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry. They will also have skills in library research and report writing, research methodology and analysis.

AVIA6960 Project II
Units: 20
Locations: Callaghan
This subject allows students to complete the research project begun in Avia695. Students will prepare a written report detailing and interpreting the results of the study. They will develop analytical and reporting skills appropriate in scientific research. Students will make a formal presentation of their research paper. The standard of research is expected to result in a publishable paper.

Assumed Knowledge: It is expected that most students will have a CPL, ATPL or ATS licence, and/or experience in the aviation industry. They will also have skills in library research and report writing, research methodology and analysis.
BIOL1010 Introduction to Cell & Molecular Biology
Units: 10
Locations: Callaghan
Introduces the basic principles of cell & molecular biology and is appropriate for students with little prior exposure to biology. The themes are the 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 BIOL1020 the course 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 bioremediation. These themes are expanded and developed in the 200 & 300 level biology subjects.
BIOL1010 / BIOL1020 is not to count with BIOL1110 / BIOL1120.
Assumed Knowledge: HSC Maths and Chemistry desirable

BIOL1020 Introductory Biology: Cells to Organisms
Units: 10
Locations: Callaghan
Using development and evolution as the central themes, and flowering plants and vertebrates as main models, this course illustrates how a single fertilised 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 course will end with a brief account of the integration of plants and animals into ecosystems.
BIOL1010 / BIOL1020 is not to count with BIOL1110 / BIOL1120.
Assumed Knowledge: HSC Maths and Chemistry desirable

BIOL1030 Biological Data Evaluation
Units: 10
Locations: Callaghan
Knowledge in biotechnology is developing at an unprecedented rate. This course provides you with the skills that will facilitate your continued self-learning in your biotechnology degree and in your continued professional development after graduation. The course develops an understanding of biological data evaluation and the scientific discovery process in the life sciences. Half of the course will be devoted to biostatistics and will include familiarity with experimental design and statistical packages suitable for biological data evaluation. The second half of the course will center around important discoveries in the Life Sciences to emphasise the experimentation process and critical reasoning in discovery. Computer applications that support the life sciences in data management, display, bioinformatics and accessing information will also be included in the second half.
Assumed Knowledge: 2 unit HSC maths, general computer familiarisation

BIOL1040 Introduction to Biology I
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: No prior knowledge of biology required

BIOL1050 Introduction to Biology II
Units: 10
Locations: Central Coast
Introduces animal biology and general processes, cellular events and development, genetics and evolution, an overview of viruses, bacteria and protists, 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 systematics 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.
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 subject(s) 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.

BIOL1060 Biomolecular Analysis
Units: 10
Locations: Callaghan
The understanding of large molecules such as proteins and DNA is fundamental for modern molecular biology. This course provides an introduction to biological macromolecules and the fundamental techniques in biomolecular analysis. The course focuses on the relationships between structure, function and analysis of proteins, nucleic acids, carbohydrates and lipids. Students are introduced to modern instrumentation and methodology, including spectrophotometry, chromatography, enzyme assays, electrophoresis and computer-aided molecular modelling.
Assumed Knowledge: None.

BIOL1110 Introductory Biology: Ecosystems and Communities
Units: 10
Locations: Callaghan
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. The course 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.
BIOL1110 / BIOL1120 is not to count with BIOL1010 / BIOL1020.
Assumed Knowledge: 4 unit HSC Science and 2 unit HSC Maths desirable.

BIOL1120 Intro Biol: Populations, Genetics and Evolution
Units: 10
Locations: Callaghan
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.
BIOL1110 / BIOL1120 is not to count with BIOL1010 / BIOL1020.
Assumed Knowledge: 4 unit HSC Science and 2 units HSC Maths desirable

BIOL1200 Introduction to Biology for Psychology
Units: 10
Locations: Callaghan
Introduces students studying psychology to the science of biology as a precursor to further studies in biological psychology within the Bachelor of Psychology Program. Students are introduced to the scientific methods involved in biology as well as key topic 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
Units: 10
Locations: Callaghan
Central Coast
Living systems are made up of molecules and this course introduces the diversity of important biological molecules and shows how their structures relate to their function. The smaller biomolecules such as amino acids, nucleotides and sugars have important biological functions of their own, and are also utilised as building blocks for biopolymers such as proteins, nucleic acids and polysaccharides. The metabolic processes that occur in cells to synthesise and degrade these biomolecules and to provide energy for the cell will be presented with a view to showing how biochemical reactions and pathways are connected and controlled.
Assumed Knowledge: CHEM101, CHEM102, BIOL101 and BIOL102 or equivalent

BIOL2020 Animal Physiology and Development
Units: 10
Locations: Callaghan
The basic principles of the physiology and development of mammals are studied focusing 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.
Assumed Knowledge: BIOL101 and BIOL102

BIOL2040 Cell and Molecular Biology
Units: 10
Locations: Callaghan
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
response to signaling by hormones and other molecules. This course explores how plant cells develop from meristematic dividing cells through organization into tissues and organs produces a functional plant. Mature cells have regions of the plant called meristems. The coordinated development of cells and their 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 appropriate scientific report writing skills.

Assumed Knowledge: BIOL1010, BIOL1020, BIOL1110, BIOL1120, including DNA theory and Mendelian genetics.

BIOL2070 Ecology

Units: 10
Locations: Callaghan

Introduces ecology focussing on population and community dynamics. Through case studies, the course examines the factors affecting the distribution and abundance of species. The basic models of population growth and how these are affected by the environment and complex behaviour patterns are covered. The course 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 concept to designs of biological reserves. Australian case studies are used to illustrate concepts. An understanding of the relationships between populations and the environment is essential for anyone working in the environmental area.

Central Coast: BIOL101C or BIOL104C Introduction to Biology I
BIOL102C or BIOL105C Introduction to Biology II
STE1010 Computing in Science

BIOL2080 Cellular Biochemistry

Units: 10
Locations: Callaghan

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 communications 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.

Assumed Knowledge: BIOL1010, BIOL1020, BIOL2010

BIOL2090 Microbial Biology

Units: 10
Locations: Callaghan

This course 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 Bacteria, 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 characterizing the major microbial sub-groups. Following this, the relevance of microbes to the environment, disease and the food industry is discussed.

Assumed Knowledge: BIOL1010 and BIOL1020

BIOL2220 Plant Cell Development

Units: 10
Locations: Callaghan

Plants are multicellular, immobile organisms composed of cells produced in restricted regions of the plant called meristems. The coordinated development of cells and their organization into tissues and organs produces a functional plant. Mature cells have specific structural characteristics designed to allow them to perform specialized tasks. This course explores how plant cells develop from meristematic dividing cells through expansion and finally differentiate to acquire their specific identities. These developmental processes are highly regulated and involve changes in gene expression in response to signaling by hormones and other molecules.

Assumed Knowledge: BIOL101 and BIOL102

BIOL2230 Biomolecules

Units: 10
Locations: Callaghan

This course is only available to students enrolled in either the B.Sc.(Biotech), LLB/ B.Sc (Forensics) degrees.

Examines the analysis of biomolecules. The focus is on using molecular technologies to address current issues. In particular applications in the area of biopharmaceuticals will be discussed. Questions to be addressed include: Where are genes cloned? How do you interpret gene-mapping data? What are the current approaches to the development of drugs? What approaches can be taken to large scale screening of biological compounds? How many sub-groups? Assumed Knowledge: An understanding of BIOL1010 is assumed. In particular an understanding of DNA theory and Mendelian genetics as introduced in BIOL1010 is assumed. Concurrent or prior knowledge of BIOL2050 is strongly recommended.

BIOL3020 Reproductive Physiology and Development

Units: 10
Locations: Callaghan

Provides 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 the processes involved in the production 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. Topical 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 clonal technologies.

Assumed Knowledge: BIOL101 and BIOL102

BIOL3030 Environmental Plant Physiology

Units: 10
Locations: Callaghan

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 lumen. 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

Units: 10
Locations: Callaghan

The immune system is a network of cells and their interacting connecting molecules that provides defence for the animal against infection. The study of immunology offers an understanding of cell-cell interactions, gene differentiation and cell regulation of relevance to all cell biologists, microbiologists and biotechnologists. The importance of evolutionary theory is seen in the presentation of bacterial-immune system interactions.

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, and the pivotal roles of the cytokines.

Assumed Knowledge: Biology 2000 level courses.

BIOL3090 Molecular Biology

Units: 10
Locations: Callaghan

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).

Assumed Knowledge: BIOL2050
BIOL3100 Microbiology
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: BIOL2080

BIOL3110 Environmental Biology
Units: 10
Locations: Callaghan
Environmental Biology extends the knowledge and skills introduced in Biology 2070/2071. Ecology. The course revises the essential principles of population, community and ecosystem ecology and also addresses a number of applied topics in Ecology. Areas explored during the course will include (1) Advanced experimental design and detection of impacts in ecological systems, (2) pests, invasion ecology, biological control and population management, (3) pollutant effects in ecosystems and ecotoxicology, and (4) evolutionary ecology and behavioural ecology. The course will be presented in lectures, fieldwork and laboratory/workshops.
Assumed Knowledge: BIOL207 Ecology; ENVS2030 Environmental Sampling and Data Analysis.

BIOL3140 Plant Development
Units: 10
Locations: Callaghan
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 development 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: BIOL 101, BIOL 102 and BIOL 206

BIOL3190 Wetland Ecology
Units: 10
Locations: Callaghan
Note: This course is offered subject to sufficient student enrolments. 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. 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
Units: 10
Locations: Callaghan
Techniques that are frequently used in biotechnology research as the basis for this course. Techniques such as the use of phage display libraries to create molecular diversity, monoclonal antibody production, advanced molecular biology techniques, epiprome 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 constitute 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.
Assumed Knowledge: Completion of year two of BScience(Biotechnology).

BIOL3210 Biotechnology Practice
Units: 40
Locations: Callaghan
Available for students enrolled in the B.Sc. (Biotechnology) program prior to 2001 only. Biotechnology practice is a placement in a practicing biotechnology environment in the Private, Public or University sector. This course is the final part of the degree program with students having completed two hundred credit points before proceeding to this course. Each placement will have defined objectives which are refined through electronic communication with the student 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. Placements will be organized in such areas as vaccine, biomolecular, plant, molecular genetics, reproductive, and veterinary biotechnology industries 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 and seminar are required. Placements will be organized in such areas as vaccine, biomolecular, plant, molecular genetics, reproductive, biomedical and veterinary based biotechnologies.
Assumed Knowledge: Completion of 1000 and 2000 level biotechnology courses is assumed. No prior enrolment in finance courses is expected.

BIOL3220 Biotechnology Finance and Commercialisation
Units: 10
Locations: Callaghan
Introduces students to the commercial and economic environment in which Australian biotechnology industries operate. Students will develop analytical skills to assess the commercial potential of biotechnology innovations, and an understanding of business models for biotechnology companies. Basic economic, business and finance concepts will be introduced. Students will learn to interpret prospectuses, financial balance sheets and reports, and analysts’ reports. Lectures will introduce the critical issues and the environment of commercialisation of biotechnology. The class will operate as a group of analysts to assess and rank a selection of listed Australian biotechnology companies based on their technology, products, management and investment potential.
Assumed Knowledge: Completion of 1000 and 2000 level biotechnology courses is assumed. No prior enrolment in finance courses is expected.

BIOL3250 Biotechnology Placement
Units: 20
Locations: Callaghan
Available for Bachelor of Science (Biotechnology) students only. A 10-week placement in a practicing biotechnology environment in the Private, Public or University sector is the centrepiece of this course. 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 and seminar are required. Placements will be organised in such areas as vaccine, biomolecular, plant, molecular genetics, reproductive, biomedical and veterinary based biotechnologies.
Assumed Knowledge: Students doing this course should have completed all other courses in the Biotechnology degree program i.e. 220 units.

BIOL3310 Plant Cell & Molecular Biology
Units: 10
Locations: Callaghan
The complete sequencing of the three plant genomes has opened a new era of plant cell and molecular biology. The course provides an overview of the dynamics of plant cell organisation and current understanding of subcellular structure and function at the molecular level. Plant cell and molecular biology is particularly concerned with cell signalling and intracellular messenger systems and the genomic regulation of cellular processes, growth and development, and plant-microbe interactions. Plant genetic engineering is an important tool for utilising genomic information for understanding plant processes and for practical application in plant improvement. Plant cells are totipotent, having the ability to produce an entire new plant, and it is this capacity which greatly facilitates genetic engineering in plants. Mechanisms and applications of plant genetic engineering, functional genomics and plant-microbe interactions are molecular topics that are the focus of this course, and are presented using a thematic approach.
Assumed Knowledge: BIOL2010, BIOL2050, BIOL2080

BIOL3330 Plant Development and Physiology
Units: 10
Locations: Callaghan
The course theme is the production of plant biomass for maintenance of ecosystems and commercial gain. It explores the coordinated development of vegetative plant organs responsible for capture of nutrients from the environment and their allocation within the plant. Adaptive responses to environmental challenges and the opportunities for genetic manipulation are investigated. The course provides an opportunity to hone skills in developing a logical argument, analysis and interpretation of experimental data, and verbal and written communication.
Assumed Knowledge: BIOL 1010, BIOL 1020

Guide to Undergraduate and Postgraduate and Courses - 2003
BIOL4110 Biology Honours 4110  
Units: 20  
Locations: Callaghan  
Central Coast  
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 utilised in their research area. This workshop component runs through both semesters.  
Assumed Knowledge: A major in the appropriate sub-discipline with a credit-point average at 300 level.

BIOL4120 Biology Honours 4120  
Units: 20  
Locations: Callaghan  
Central Coast  
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 utilised in their research area. This workshop component runs through both semesters.  
Assumed Knowledge: A major in the appropriate sub-discipline with a credit-point average at 300 level.

BIOL4210 Biology Honours 4210  
Units: 20  
Locations: Callaghan  
Central Coast  
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 utilised in their research area. This workshop component runs through both semesters.  
Assumed Knowledge: A major in the appropriate sub-discipline with a credit-point average at 300 level.

BIOL4220 Biology Honours 4220  
Units: 20  
Locations: Callaghan  
Central Coast  
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 utilised in their research area. This workshop component runs through both semesters.  
Assumed Knowledge: A major in the appropriate sub-discipline with a credit-point average at 300 level.

BIOL6910 Foundations of Modern Biology  
Units: 20  
Locations: Callaghan  
This unit provided students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 credit points of material from the following list of subjects available at third year level.  
Assumed Knowledge: Approved degree in science or technology

BIOL6920 Topics in Modern Biology  
Units: 20  
Locations: Callaghan  
This unit provided students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 credit points from Level 300 subjects offered by the Discipline or within the Faculty, approved by the Supervisor and Head of Discipline.  
Assumed Knowledge: BIOL691

BIOL6930 Advanced Topics in Biology  
Units: 20  
Locations: Callaghan  
This unit provided students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students must choose 20 credit points of material based on the following list of reading list courses. Approval from Supervisor and Head of Discipline.  
Select four of: Ectotoxicology; Developmental Biology; Plant Physiology; Animal Physiology; Ecology; Environmental Management; Molecular Techniques; Immunology; Biochemistry; Reproductive biology; Wetland Biology  
Assumed Knowledge: degree in Biological Sciences or approved equivalent

BIOL6940 Research Developments in Biology  
Units: 20  
Locations: Callaghan  
This unit provided students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students must choose 20 credit points of material approved by the project supervisor committee of three, after consultation with the candidate. Four topics related to a selected research interest or, in particular, the planned research area, chosen by the subject supervision committee. These topics will be individually tailored to suit the candidate's area of interest. Because topics in this part are selected with reference to an individual's research interest and/or project area selection, prior information is limited, except the candidate can expect material for assessment will be at a comparable level of difficulty to topics in BIOL6930.  
Assumed Knowledge: Degree in Biological Sciences or approved equivalent

BIOL6950 Project I  
Units: 20  
Locations: Callaghan  
This unit allows students to undertake a research project prepared for in prior or parallel study in BIOL6940. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of experimental results. A typed literature review of a size defined below will be required.  
Assumed Knowledge: BIOL6940 (advisory)

BIOL6960 Project II  
Units: 20  
Locations: Callaghan  
This unit allows students to complete a research project prepared for in prior or parallel study in BIOL6950. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of experimental results. A typed report of a size defined below will be required.  
Assumed Knowledge: BIOL6950

BIOS4010A Biostatistics (Part A)  
Units: 10  
Locations: CCEB  
City Precinct  
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 course 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)**

**Units:** 10  
**Locations:** CCEB

This course will develop statistical models for longitudinal and correlated data in medical research. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6010 Data Management and Statistical Computing**

**Units:** 10  
**Locations:** CCEB

This course will explore the impact of computers and the corresponding availability of data sets on the way we think about data and proceed to analyse and report on it. Includes sources of data, data storage, cleaning data, linking files, analysing large data sets and computer software.  
**Assumed Knowledge:** Basic biostatistics and epidemiology.

**BIOS6020 Categorical Data and Generalised Linear Models**

**Units:** 10  
**Locations:** CCEB

This course will explore biostatistical applications of generalised linear models with an emphasis on underlying theoretical issues, and practical interpretation of the results of fitting these models.  
**Assumed Knowledge:** Basic Epidemiology; Mathematical Background for Biostatistics; Principles of Statistical Inference; Linear Models.

**BIOS6030 Survival Analysis**

**Units:** 10  
**Locations:** Off Campus

Aims to enable students to understand the impact of computers and the corresponding availability of data sets on the way we think about data and proceed to analyse and report on it. Explores biostatistical applications of survival analysis with an emphasis on underlying theoretical and computational issues, practical interpretation and communication of results.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics; Principles of Statistical Inference.

**BIOS6040 Mathematical Background for Biostatistics**

**Units:** 10  
**Locations:** CCEB

This course will involve practical applications of statistical methods in clinical and diagnostic settings. The underlying statistical theory will be presented as support rather than as the main emphasis. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Basic biostatistics and epidemiology.

**BIOS6050 Principles of Statistical Inference**

**Units:** 10  
**Locations:** CCEB

Introduces concepts of statistical inference, including estimators, confidence intervals, Type I & II errors and p-values. The emphasis is on the practical interpretation of these concepts in biostatistical contexts, including an emphasis on the difference between statistical and practical significance. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6060 Design of Experiments & Randomised Clinical Trials**

**Units:** 10  
**Locations:** CCEB

Introduces randomised comparisons as a major tool used in medical research and the basis of providing evidence for improving clinical practice. Major topics are Experimental Design and Analysis, Randomised Controlled Trials, issues in Randomised Controlled Trials; and Sample size. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6070 Linear Models**

**Units:** 10  
**Locations:** CCEB

This course will expose students to real-life biostatistical problems, in government, industry or a research environment, under supervision of an experienced biostatistician, so that they can practice and develop the skills they have learned. The course is offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6080 Health Indicators and Health Surveys**

**Units:** 10  
**Locations:** CCEB

Students are introduced to a variety of sources of routinely collected health-related data and how these data are used to derive population measures of fertility, mortality and morbidity, and to measure health service utilisation, disease registration and reporting. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6090 Longitudinal and Correlated Data Analysis**

**Units:** 10  
**Locations:** CCEB

This course will provide statistical models for longitudinal and correlated data in medical research. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Basic biostatistics and epidemiology.

**BIOS6100 Clinical Biostatistics**

**Units:** 10  
**Locations:** Distance Education - Callaghan

Involves practical applications of statistical methods in clinical and diagnostic settings. The underlying statistical theory will be presented as support rather than as the main emphasis. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Basic biostatistics and epidemiology.

**BIOS6110 Bioinformatics and Statistical Genetics**

**Units:** 10  
**Locations:** CCEB

Provides an introduction to the fields of bioinformatics and genetic epidemiology from a statistical point of view. Students will be taught how to apply appropriate statistical methods to the analysis of genetic data. The course is offered in conjunction with the Biostatistics Collaboration of Australia (BCA)  
**Assumed Knowledge:** Epidemiology, Mathematical Background for Biostatistics; Principles of Statistical Inference; Linear Models; Categorical Data & GLMs.

**BIOS6120 Work Placement/Project**

**Units:** 10  
**Locations:** Distance Education - Callaghan

This course will involve practical applications of statistical methods in clinical and diagnostic settings. The underlying statistical theory will be presented as support rather than as the main emphasis. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Basic biostatistics and epidemiology.

**BIOS6050 Principles of Statistical Inference**

**Units:** 10  
**Locations:** CCEB

Introduces the core concepts of statistical inference, including estimators, confidence intervals, Type I & II errors and p-values. The emphasis is on the practical interpretation of these concepts in biostatistical contexts, including an emphasis on the difference between statistical and practical significance. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6060 Design of Experiments & Randomised Clinical Trials**

**Units:** 10  
**Locations:** CCEB

Introduces randomised comparisons as a major tool used in medical research and the basis of providing evidence for improving clinical practice. Major topics are Experimental Design and Analysis, Randomised Controlled Trials; Issues in Randomised Controlled Trials; and Sample size. The course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, and Mathematical Background for Biostatistics.

**BIOS6070 Linear Models**

**Units:** 10  
**Locations:** CCEB

Explores biostatistical applications of linear models with an emphasis on underlying theoretical and computational issues, practical interpretation and communication of results. This course will be offered in distance learning mode only.  
**Assumed Knowledge:** Epidemiology, Mathematical Background for Biostatistics, and Principles of Statistical Inference.
or equivalent; basic epidemiological concepts.

Modelling or equivalent; Biostatistics A and B, or Biostatistics C.

BIOS6920 Biostatistics B
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
The purpose of this course is to build on the knowledge and skills obtained in Biostatistics A BIOS6910, and to introduce more complex methods of analyses which are commonly used in epidemiologic research.
Enrolment in this course precludes enrolment in BIOS4010.
Assumed Knowledge : BIOS6910 - Biostatistics A

BIOS6930 Biostatistics C
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
Covers the same material as Biostatistics A and B but at twice the pace. It includes an introduction to sample size calculations.
Enrolment in this course precludes enrolment in BIOS6910 Biostatistics A; BIOS6930 Biostatistics B; and PUBH6170 Introduction to Quantitative Methods for Quality Improvement.
Assumed Knowledge : Completed statistics at undergraduate level.

BIOS6940 Intermediate Biostatistics in Epidemiology
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
Teaches biostatistical methods at an intermediate level, with emphasis on application rather than theory.
Assumed Knowledge : BIOS6910 - Biostatistics A and BIOS6920 - Biostatistics B, or BIOS6930 - Biostatistics C

BIOS6950 Advanced Biostatistics
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
Covers advanced biostatistical methods commonly used such as categorical data analysis and survival analysis. Provides students with experience, rather than theory, as the course is very applied utilising numerous examples, and practical exercises, and with assignments using real data.
Assumed Knowledge : 200 level Statistical Inference and Generalised Linear Modelling or equivalent; Biostatistics A and B, or Biostatistics C.

BIOS6960 Short Data Analysis Project
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
Develops familiarity that allows the student to gain experience with exploratory statistical analysis of a dataset of a moderate size, consult with a 'client' and report writing.
Assumed Knowledge : BIOS6910 Biostatistics A and BIOS6920 Biostatistics B, or equivalent; basic epidemiological concepts.

BIOS6970 Quality Monitoring
Units: 10
Locations: CCEB
City Precinct
Distance Education - Callaghan
Describes methods for monitoring performance and outcomes in health services and how the results of these monitoring programs can lead to quality improvement initiatives. Assists the student to understand and appraise measurement and monitoring tools such as management information systems, customer surveys, incident reporting systems and adverse event surveys, clinical performance indicators, benchmarking, and clinical guidelines and pathways.
Assumed Knowledge : PUBH6150 Introduction to Quality Improvement
BLDG1081 Communication & Computing 2
Units: 10
Locations: WIT, Malaysia
Aims to provide the basic knowledge required to use a personal computer and common business software applications and develop a competence in technical and business writing.
Assumed Knowledge: Nil.

BLDG1310 Building 1310
Units: 30
Locations: Callaghan, Distance Education - Callaghan
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: NA

BLDG1320 Building 1320
Units: 10
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG1330 Building 1330
Units: 10
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG1340 Building 1340
Units: 30
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG2011 Construction & Materials 3
Units: 10
Locations: WIT, Malaysia
Provides an understanding of the foundation systems appropriate for large scale building, construction of steel framed structures and construction of multi-storey buildings. Also aims to understand the manufacture, handling and installation and testing of pre-cast concrete, GRC, prestresses/post-tensioned and composite building elements and to understand the properties and application/installation of internal and external finishes.
Assumed Knowledge: Nil.

BLDG2021 Economics for Built Environment
Units: 10
Locations: WIT, Malaysia
Aims to understand the macro-economic factors and their dynamics relevant to the construction industry, the market analysis and its application to the built environment and the "theory of the firm" in the construction industry.
Assumed Knowledge: Nil.

BLDG2031 Legal Studies 1
Units: 10
Locations: WIT, Malaysia
Provides and understanding of the sources and historical development of law and an understanding of the legal system in the country with respect to structure of courts and the legal profession. It also creates an understanding of the fundamental principles of business and contract law and the legal principles relevant to business organisations.
Assumed Knowledge: Nil.

BLDG2041 Management 1
Units: 10
Locations: WIT, Malaysia
Deals with the basic functions of management, the fundamentals of organisational behaviour and develops and understanding of professional business and environmental ethics. It also promotes the development of problem solving skills, time management skills and communication and negotiation skills.
Assumed Knowledge: Nil.

BLDG2051 Construction & Materials 4
Units: 10
Locations: WIT, Malaysia
Aims to understand the principles of piled foundations and the construction methods for piled foundations. Also 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.
Assumed Knowledge: Nil.

BLDG2061 Quantity Surveying 1
Units: 10
Locations: WIT, Malaysia
Provides an understanding of the specifications used for building work and to demonstrate the ability to apply standard methods of measurement; to build up rates for walls, floors and roof elements and to measure civil works. Also aims to be able to produce cost estimates using various techniques and produce a tender for a building project.
Assumed Knowledge: Nil.

BLDG2071 Legal Studies 2
Units: 10
Locations: WIT, Malaysia
Aims to provide an understanding of the regulatory processes for obtaining development and building approvals; the legal instruments and forms of title pertaining to ownership and use of land and the requirements necessary for subdividing land. Also aims to understand the regulatory requirement for obtaining building approvals.
Assumed Knowledge: Legal Studies 1

BLDG2081 Management 2
Units: 10
Locations: WIT, Malaysia
Creates an understanding of the business administration principles, the principles of financial accounting and business finance and accounting principles of management accounting. Also aims to create and understanding of information search techniques; systems analysis and design principles; data collection and descriptive statistics methods for research and use of computers for information processing.
Assumed Knowledge: Concepts covered in Management 1

BLDG2310 Building 2310
Units: 30
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG2320 Building 2320
Units: 10
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG2330 Building 2330
Units: 10
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG2340 Building 2340
Units: 30
Locations: Callaghan
Distance Education - Callaghan
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: NA

BLDG2800 Directed Study - Construction Management (Bldg)
Units: 20
Locations: Callaghan
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.
BLDG2810 Directed Study - Construction Management (Bldg)

Units: 20
Locations: Callaghan

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.

BLDG2900 Quantity Surveying Bridging Program - Stage 1

Units: 10
Locations: Off Campus

The QS Bridging Program Stage 1 is a prerequisite course for students without formal qualifications or equivalent work experience in quantity surveying, who are otherwise qualified to gain admission to the Bachelor of Construction Management (Building) program with advanced standing in the Level 1000 and 2000 courses. Location and Semester Details: Callaghan - Semester 1.2

Assumed Knowledge: Enrolment in the course will be subject to the recommendation of the Head of Department of Building.

BLDG3011 Quantity Surveying 2

Units: 10
Locations: WIT, Malaysia

Provides a background to the financial aspects of a building contract; undertake cost planning for new building works and renovations and assess the financial feasibility of project proposals.

Assumed Knowledge: Not Applicable.

BLDG3021 Legal Studies 3

Units: 10
Locations: WIT, Malaysia

Creates understanding in the elements of a standard building contract and requirements of provisions during the early stages in the country and the statutory requirements of employers and contractors of employment.

Assumed Knowledge: None

BLDG3031 Management 3

Units: 10
Locations: WIT, Malaysia

Deals with the ability to use manual methods for project programming and resource planning. Aims to create understanding in the different processes of project procurement and the roles of the head contractor or manager, the roles and responsibilities of the various parties in the construction project process and site organisation and management activities.

Assumed Knowledge: Not Applicable.

BLDG3041 Minor Project

Units: 10
Locations: WIT, Malaysia

Provide a vehicle for problem solving involving the integration of knowledge from different discipline areas.

Project Themes: Bulk excavation, trenching, retaining structure and temporary works: includes design of temporary structures and supports; verifying the adequateness of structural provisions in construction work and ensuring the structural stability and adequate support of permanent work during the progress of construction. Business finance, estimating, tendering: including establishment of business, business planning and tendering for a project (new house).

Assumed Knowledge: Not Applicable.

BLDG3051 Management 4

Units: 10
Locations: WIT, Malaysia

Creates understanding of the concept and practice of value engineering, constructability; Total Quality Management; benchmarking;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: 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. Quality conceptstand definitions; ISO 9000 standards.

Assumed Knowledge: Nil.

BLDG3110 Industrial Training

Units: 10
Locations: WIT, Malaysia

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

Assumed Knowledge: Nil

BLDG3120 Major Project

Units: 20
Locations: WIT, Malaysia

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)

BLDG3310 Building 3310

Units: 30
Locations: Callaghan

Assumed Knowledge: NA

BLDG3320 Building 3320

Units: 10
Locations: Callaghan

Assumed Knowledge: NA

BLDG3330 Building 3330

Units: 10
Locations: Callaghan

Assumed Knowledge: NA

BLDG3340 Building 3400

Units: 30
Locations: Callaghan

Assumed Knowledge: NA

BLDG3800 Directed Study - Construction Management (Bldg)

Units: 20
Locations: Callaghan

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.

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

BLDG3810 Directed Study - Construction Management (Bldg)

Units: 20
Locations: Callaghan

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.

Assumed Knowledge: The study program which is devised for the student will take into account previous knowledge/studies.
BLDG4310  Building 4310  
Units: 30  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

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

BLDG4320  Building 4320  
Units: 10  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

Introduces research methods. Students develop the ability to identify and implement appropriate research methods for a selected topic. Students will be required to design, develop and submit a detailed research proposal and draft literature review and participate in compulsory seminars (on-campus students).  

Assumed Knowledge: NA  

BLDG4330  Building 4330  
Units: 10  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

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 draft research methodology and application for ethics approval (if appropriate) and participate in compulsory seminars (on-campus students).  

Assumed Knowledge: Permission of the Program Convenor.  

BLDG4340  Building 4340  
Units: 30  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

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 Discipline of Building. Students will be required to submit a literature review.  

Assumed Knowledge: Permission of the Program Convenor.  

BLDG4350  Building 4350  
Units: 10  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

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: NA  

BLDG4360  Building 4360  
Units: 30  
Locations:  
TMC, Singapore  
WIT, Malaysia  
Distance Education - Callaghan  

Major Project: under the supervision of academic staff in the Discipline 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: NA  

BLDG4810  Directed Study - Construction Management (Blgd)  
Units: 20  
Locations:  
Callaghan  

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.  

BLDG6200  Project Management for the Built Environment  
Units: 10  
Locations:  
Callaghan  

The course provides an introduction to generic project management concepts and develop a range of project management tools and that may be applied through a project life cycle focusing on the management of complex relationships and activities to ensure that time, cost and performance objectives are achieved.  

Assumed Knowledge: Completion of Bachelor of Architecture or equivalent.  

BLDG6320  Principles of Managing Urban Projects  
Units: 10  
Locations:  
TMC, Singapore  

Covers advanced principles of managing urban projects with topics appropriate to the property profession within a context of: international and inter-disciplinary professional consultancy; innovative project funding and procurement methods; and facilities management.  

Assumed Knowledge: Admission to the program.  

BLDG6340  Property Transaction Strategies  
Units: 10  
Locations:  
TMC, Singapore  

Explores the nature of property transactions in the context of global investment. Students will be exposed to markets and analyses and the tools and techniques available for property assets valuation. Property ownership and rights will be explored in the context of their affect on investment decision making.  

Assumed Knowledge: Admission to the program.  

BUSN1100  People and Profiles in Business  
Units: 10  
Locations:  
Central Coast  

Provides students with an overview of the realm of management, focusing on stakeholders, both internal (employees) and external (customers) to the business. It gives to students a foundation of knowledge and a vocabulary for the further study of management. Wherever appropriate the course is international in its perspective and gives due attention to challenges in today's electronic environment.  

Assumed Knowledge: None.  

BUSN1250  Foundations of Accounting Practice  
Units: 10  
Locations:  
Central Coast  

Concerns the provision of relevant and reliable information to assist users in their decision making process as they attempt to allocate scarce resources in the most effective and efficient manner. Develops the student's ability to identify and record financial transactions using accounting principles developed during the semester. Both international and electronic contexts are taken into account.  

Assumed Knowledge: BUSN1960 - The Contemporary Commercial Environment  

BUSN1600  The New Marketer  
Units: 10  
Locations:  
Central Coast  

Introduces students to the current state of marketing including topics such as electronic marketing, call centres, diversity of rates of change in the international environment and customer relationship management. Topics extend beyond an emphasis on the electronic environment to also include traditional concepts related to business-to-business and consumer marketing, including segmentation, targeting, positioning and the four P's (product, price, place and promotion), and the future of marketing.  

Assumed Knowledge: None.  

BUSN1800  Communication and E-Talk  
Units: 10  
Locations:  
Central Coast  

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.  

Assumed Knowledge: None.
BUSN1850 Data, Decisions and Directions
Units: 10
Locations: Central Coast
Introduces students to the concepts of research design and implementation. Also covers basic techniques of data management and analysis, including techniques of statistical analysis, operations research and quantitative project management. The content of the course is both theoretical and applied in perspective. Students will use contemporary information technology tools and the international context of today’s business will be taken into account.
Assumed Knowledge: None.

BUSN1960 The Contemporary Commercial Environment
Units: 10
Locations: Central Coast
Draws upon the basic financial, economic and legal principles that underpin society and the business environment. The content is contemporary in its perspective, accommodating both international and electronic business issues, and relates to both public and private enterprises. The course deals with individual decision making and social responsibility, as well as giving due attention to the problems faced by management.
Assumed Knowledge: None.

BUSN2000 New Venture Creation
Units: 10
Locations: Central Coast
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 with 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. The international and electronic contexts of these processes are also considered.
Assumed Knowledge: The Level 1000 core courses in the Bachelor of Management, plus LEGAL1000 Law for Managers and Entrepreneurs.

BUSN2010 Hospitality Operations Management
Units: 10
Locations: Central Coast
Draws on a range of managerial contexts and applies them to the industry context of hotel management. It develops an understanding of the management considerations relevant to the operation of hotels both nationally and internationally, including increasing demands of electronic operations.
Assumed Knowledge: Level 1000 core courses in Bachelor of Management program.

BUSN2020 Hotel and Resort Management
Units: 10
Locations: Central Coast
Provides a synthesis and strategic framework for understanding the interplay between the operational and economic contexts of hotel and resort management. Students will be introduced to the concepts of hotel and resort management, including the management of the operational and financial processes, the legal and regulatory environment, and the role of technology in modern hotel operations.
Assumed Knowledge: BUSN2010 Hospitality Operations Management

BUSN2050 Contemporary Sport and Club Management
Units: 10
Locations: Central Coast
Examines management issues currently affecting sport and club management, in particular the organisational climate affected by the dynamic internal and external environments, including international and electronic contexts. Deals with contemporary sport and club management and their impacts on financial, marketing and the human resource management of sporting and club organisations.
Assumed Knowledge: Level 1000 core courses in the Bachelor of Management program.

BUSN2070 Gaming Management
Units: 10
Locations: Central Coast
Introduces students to the management of gaming in a club environment, including increasing pressures from the electronic context. 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 nationally and internationally. 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: Level 1000 core courses in the Bachelor of Management program.

BUSN2090 Introduction to the Tourism Industry
Units: 10
Locations: Central Coast
Introduces students to tourism and the tourism industry, organisations within the industry and relevant disciplinary and interdisciplinary approaches to their study. Reviews the historical development of tourism, analyses the components within tourism and examines the organisational and electronic implications of the tourism industry, with particular attention to changes driven by the electronic environment. The course 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.
Assumed Knowledge: Level 1000 core courses in the Bachelor of Management program.

BUSN2100 Entrepreneurial Diversity
Units: 10
Locations: Central Coast
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. The international and electronic contexts of entrepreneurial behaviour are also taken into account.
Assumed Knowledge: None.

BUSN2200 Actting & Legal Asp. of Companies and Part
Units: 10
Locations: Central Coast
Develops a high level of understanding of the mechanics of, and the legal issues involved in preparing general purpose financial statements of companies. Students will be expected to use the standards to prepare general purpose financial statements and to recognise both international and management contexts. The legal implications of the relevant transactions and standards will be discussed.
Assumed Knowledge: BUSN1960 - The Contemporary Commercial Environment

BUSN2250 The Regulatory Environment of Business
Units: 10
Locations: Central Coast
Analyses the theory and practice behind the current Australian institutional arrangements for setting accounting standards and the regulation of corporate combinations in Australia. Critically examines the interrelationship between legislation, accounting standards, ASX regulation, and professional regulation. Australian accounting standards are placed in an international context by analysing the move to adopt the international accounting standards in Australia. The international context is also taken into account.
Assumed Knowledge: BUSN2200 - Accounting and Legal Aspects of Companies and Partnerships

BUSN2300 Value Creation Through Managerial Control
Units: 10
Locations: Central Coast
Concerned with the effective use of resources within organisations taking into account both international and electronic contexts. Organisations seek to create value for customers by configuring their internal processes to convert resources into value added products and services effectively and efficiently. 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.
Assumed Knowledge: BUSN1250 Foundations of Accounting Practice

BUSN2350 Investment Decisions & Management
Units: 10
Locations: Central Coast
Concerns the management of investments for the 21st century. It discusses available investment instruments and considers the purpose and operation of capital 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. Takes into account issues in the electronic environment.
Assumed Knowledge: BUSN1800 - The Contemporary Commercial Environment

BUSN2400 Managing for Performance
Units: 10
Locations: Central Coast
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. Current 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, and issues relevant to the electronic context are taken into account.
Assumed Knowledge: BUSN1100 People and Profiles in Business, BUSN1800 Communication and e-talk
Learning in Organisations
Units: 10
Locations: Central Coast
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. Both international and electronic contexts are taken into account.
Assumed Knowledge: BUSN1100 People and Profiles in Business

Corporate Significance of Human Resources
Units: 10
Locations: Central Coast
Examines the relationship between business and human resource strategy in a customer-focused, global and electronic 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 course and assumes knowledge derived from previous studies within the degree.

Leadership in Contemporary Organisations
Units: 10
Locations: Central Coast
Examines the nature of leadership, theory and practice in modern organisations throughout the world. The course explores the evident differences and similarities in the behaviours, strategies, and achievements of leaders across a wide range of settings, including organisational size, industry type, strategic focus, cultural orientation and the electronic context. 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.
Assumed Knowledge: A good grasp of the basic principles of management and organisations is desirable, with a reasonable understanding of introductory psychology or sociology.

The Integrative Marketer
Units: 10
Locations: Central Coast
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. Issues associated with international and electronic environments are also addressed.
Assumed Knowledge: BUSN1600 The New Marketer.

Managing Marketing Messages
Units: 10
Locations: Central Coast
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 and gives due attention to the current electronic business environment.
Assumed Knowledge: BUSN1600 The New Marketer

Creating Customer Satisfaction
Units: 10
Locations: Central Coast
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, for example, the impact of the international and electronic environments. Wherever appropriate, the content is international in its perspective.
Assumed Knowledge: BUSN1600 The New Marketer

Global E-Commerce
Units: 10
Locations: Central Coast
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, including within the international context.
Assumed Knowledge: All Bachelor of Management core courses plus BUSN2100 Entrepreneurial Diversity.

Practicum in Hotel, Sport and Club Management
Units: 10
Locations: Central Coast
Provides students with the opportunity to utilise a range of skills and knowledge acquired in a manner that demonstrates a professional and applied understanding of the hotel, club and/or sports 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 Central Coast School of eBusiness and Management and the organisation.
Assumed Knowledge: BUSN3010 Hospitality Operations Management

Strategy and Implementation
Units: 10
Locations: Central Coast
Integrates knowledge from diverse earlier courses within the program. It is a capstone course which accommodates international and electronic themes while emphasising an applied management perspective. Analysis will focus on strategic issues in both the external and internal environments of the enterprise and in the holistic implementation of contemporary enterprise decisions.
Assumed Knowledge: This is a final year, second semester course and assumes comprehensive knowledge derived from previous studies within the program.

Business Growth and Success
Units: 10
Locations: Central Coast
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 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 courses, plus BUSN2000 New Venture Creation.

Event and Facility Management
Units: 10
Locations: Central Coast
Adopts a systematic approach to the planning and management of events and specialised facilities, including recognition of the impact of international and electronic contexts. Students develop an understanding of the context, significance, roles and responsibilities of industry elements in the management and function of such events and specialised facilities, and the environmental and hospitality and sports product.
Assumed Knowledge: Level 1000 core courses in the Bachelor of Management program.

History and Development of Accounting Thought
Units: 10
Locations: Central Coast
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. Addresses the seminal contributions to and debates in the literature, and the actions and reactions of the accounting profession. Takes into account both international and contemporary electronic contexts.
Assumed Knowledge: BUSN2200 Accounting & Legal Aspects of Companies and Partnerships

Accounting and Auditing Information Systems
Units: 10
Locations: Central Coast
This course is concerned with the role and influence of the information systems environment on accounting applications. The course 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. Develops the student’s ability to record and review financial transactions using principles developed during the semester, and takes account of the international context.
Assumed Knowledge: BUSN1300 Electronic Business

Strategic Value Creation
Units: 10
Locations: Central Coast
Considers the strategic dimensions of management accounting, in particular 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 position. Both international and electronic contexts are taken into account.
Assumed Knowledge: None, however, completion of 'Value Creation Through Managerial Control', BUSN2300, is desirable.
BUSN3350  Current Issues in Accounting and Finance  
Units: 10  
Locations: Central Coast  
Exposes students to contemporary accounting and finance issues. Draws upon current literature pertaining to these areas, and uses real world case studies that illustrate the relevance of such issues to the business community both nationally and internationally.  
Assumed Knowledge: BUSN2250 - The Regulatory Environment of Business  
BUSN2300 - Value Creation Through Managerial Control  

BUSN3400  Hotel, Sport and Club Marketing  
Units: 10  
Locations: Central Coast  
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 course also examines the design and use of creative promotional and media techniques for competitive advantage within these service industries, addressing national, international and electronic contexts.  
Assumed Knowledge: Level 1000 core courses in the Bachelor of Management program.  

BUSN3420  Global Challenge and Change  
Units: 10  
Locations: Central Coast  
Examines the variety of ways in which the process of change can be both understood and implemented in the organisational setting. The course 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 are assessed in terms of their impact on the nature of work and organisational change in the immediate future.  
Assumed Knowledge: BUSN2400 Managing for Performance  
BUSN2450 Learning in Organisations  
BUSN2500 Corporate Significance of Human Resources  
BUSN2550 Leadership in Contemporary Organisations  

BUSN3620  e-Marketing  
Units: 10  
Locations: Central Coast  
Provides depth of understanding of the impact of marketing in the electronic environment. Web and internet infrastructure are addressed in the context of both their technological underpinnings and facilitation of delivery mechanisms. Globalisation, adaptation, and real-time communication issues are addressed, together with e-fulfilment, e-legalities, and the rapidly changing telecommunications environment.  
Assumed Knowledge: BUSN1600 The New Marketer  
BUSN2600 The Integrative Marketer  
BUSN2650 Managing Marketing Messages  
BUSN2700 Creating Customer Satisfaction  

BUSN3670  Marketing Development and Directions  
Units: 10  
Locations: Central Coast  
Integrates the material presented in earlier marketing courses 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 and gives due attention to the current electronic business environment.  
Assumed Knowledge: BUSN1600 The New Marketer  
BUSN2600 The Integrative Marketer  
BUSN2650 Managing Marketing Messages  
BUSN2700 Creating Customer Satisfaction  
BUSN3620 e-Marketing  

BUSN3800  Business and Society  
Units: 10  
Locations: Central Coast  
Draws upon social issues in management and upon governance issues from across the range of management disciplines, highlighting where corporate and individual responsibilities lie in the various areas of management. Deals with both individual decision making and social responsibility. Wherever appropriate, the content is international in its perspective and gives due attention to problems of diversity management and the contemporary electronic environment.  
Assumed Knowledge: As a final-year course, all students will be expected to have completed two years of study in Accounting, Human Resource Management, Hotel Management or Marketing.
## CATH1010 Introduction to Complementary Medicine
### Units: 10
### Locations: Central Coast
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, naturopathy, 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
### Units: 10
### Locations: Central Coast
Introduces medical terminology and definitions associated with clinical pharmacology. An introduction of pharmacological classes is obtained and relevant herbs are classified. Concepts of herbal therapy are then explored with the foundation of the medical 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 CATH1010 Introduction to Complementary Medicine

## CATH1030 Medicinal Herb Botany and Identification
### Units: 10
### Locations: Central Coast
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:** None

## CATH2030 Herbal Therapeutics-1
### Units: 10
### Locations: Central Coast
Delivers the information required to treat conditions or ailments experienced by the human body. Specific areas of the body, as well as specific pathological conditions are identified, and then treatments are devised firstly identifying the relevant medicinal herb or herbs and their application to the body part or condition. This course details the Intestinal tract, upper and lower respiratory system, Skin, Liver and Gall Bladder.

**Assumed Knowledge:** Nil

## CATH2040 Herbal Therapeutics-2
### Units: 10
### Locations: Central Coast
Delivers the information required to treat conditions or ailments experienced by the human body. Specific areas of the body, as well as specific pathological conditions are identified, and then treatments are devised firstly identifying the relevant medicinal herb or herbs and their application to the body part or condition. This course continues on from Herbal Therapeutics I and the cardiovascular system, muscular skeletal system, male and female reproductive system, urinary system, nervous system and immune system.

**Assumed Knowledge:** Nil

## CATH2060 Pathology
### Units: 10
### Locations: Central Coast
Introduces general pathology and is applicable to any student interested in the medical sciences. The course covers the immunological responses to pathogens resulting in a firm grasp of immunology and the corresponding problems associated with immunodeficiency. Individual aspects such as inflammation, hypersensitivity, atheroma, and specific cancers are studied in detail.

**Assumed Knowledge:** Nil

## CATH2070 Symptom Analysis and Diagnosis
### Units: 10
### Locations: Central Coast
Guides the student in the taking of a competent medical history and provides skills to carry out a thorough physical examination of potential patients. A knowledge of aetiological factors will be learnt allowing the student to ask diagnostic questions when necessary information had not been volunteered. The student will then learn to undertake physical examinations which will confirm provisional diagnosis, or establish if further examinations are necessary.

**Assumed Knowledge:** Nil

## CATH3080 Clinical Pharmacology and Therapeutics
### Units: 10
### Locations: Central Coast
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 pharmacodynamics 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:** None

## CATH3110 Medicinal Herb Research
### Units: 10
### Locations: Central Coast
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:** None

## CATH6101 Introduction to Medicinal Herbs
### Units: 10
### Locations: Central Coast
This course 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, naturopathy, 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.

## CHEE1130 Introduction to Process Industries
### Units: 10
### Locations: Callaghan
The course introduces students to the process industries, and also the role and responsibility of the professional engineer. The course includes formal lectures covering a wide range of issues related to the workplace and community engagement. The lectures are complemented by a group-based project, which involves the selection, design and operation of a suitable process based on the principle of sustainability.

**Assumed Knowledge:** Nil

## CHEE1150 Chemical Engineering Principles
### Units: 10
### Locations: Callaghan
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.

**Assumed Knowledge:** Nil

## CHEE1820 Computing and Design Laboratory
### Units: 10
### Locations: Callaghan
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.

**Assumed Knowledge:** Assumed knowledge MATH1110 or MATH1020. It is recommended that MATH1120 or MATH1020 be taken simultaneously.

## CHEE1921 Industrial Experience
### Units: 10
### Locations: Callaghan
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
### Units: 10
### Locations: Callaghan
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
CHEE2690  Heat Transfer and Energy Systems  
**Units:** 10  
**Locations:** Callaghan  
Comprises two components, heat transfer, and energy systems. Part A of the course presents an elementary treatment of the principle of heat transfer in which students are introduced to the fundamentals of conduction, convection and radiation. Part B of the course provides an overview of the fuel technology, combustion, systems for energy conversion (eg engines, combustors), renewable energy sources, and environmental implications of energy systems.  
**Assumed Knowledge:** CHEE1150, MATH1110, MATH1120  

CHEE2700  Transfer Processes  
**Units:** 10  
**Locations:** Callaghan  
Introduces students to fluid mechanics and mass transfer. The course aims to introduce the principles behind the calculations and design considerations involved in dealing with processes involving fluid flow and mass transfer. The course prepares students for studies in more theoretical and specific unit operations (equipment design).  
**Assumed Knowledge:** MATH1110, MATH1120, CHEE1150  

CHEE2820  Transfer Processes Laboratory  
**Units:** 10  
**Locations:** Callaghan  
Comprised of seven experiments related to heat, mass and momentum transfer. After successfully conducting an experiment, the students need to write a well formatted technical report. The course covers process sampling, descriptive statistics, significance of data, analysis of variance, correlation and regression, determination of minimum sample size and the factorial design of experiments.  
**Assumed Knowledge:** CHEE2820  

CHEE2830  Chemical Engineering Laboratory and Computations  
**Units:** 10  
**Locations:** Callaghan  
Designed to allow students to apply the basic principles gained in other chemical engineering courses to practical situations and obtain an understanding of fundamental 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:** CHEE1150  

CHEE2900  Food Product Engineering  
**Units:** 10  
**Locations:** Callaghan  
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 MATH1120  

CHEE2940  Particle Processing  
**Units:** 10  
**Locations:** Callaghan  
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  

CHEE3320  Thermodynamics  
**Units:** 10  
**Locations:** Callaghan  
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  
**Units:** 10  
**Locations:** Callaghan  
Gives students a working knowledge of the procedures relating to a basic understanding of materials, and the application of material selection in chemical engineering and related processes. Students gain an understanding of many aspects of project management including people issues, economics and scheduling. Design concepts such as process flowsheets, mass and energy balances and piping and instrumentation diagrams are introduced.  
**Assumed Knowledge:** First year Mathematics, first year Chemistry  

CHEE3420  Safety and Risk Management  
**Units:** 10  
**Locations:** Callaghan  
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:** CHEE2700  

CHEE3690  Environmental Process Technology  
**Units:** 10  
**Locations:** Callaghan  
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  

CHEE3730  Model & Separation Processes  
**Units:** 10  
**Locations:** Callaghan  
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, CHEE2700 and CHEE3740.  

CHEE3740  Separation Processes & Particle Technology  
**Units:** 10  
**Locations:** Callaghan  
Consists of two parts. The first part provides students with the fundamentals governing a range of separation processes such as absorption, distillation, humidification, leaching, liquid extraction and adsorption. Students apply the fundamentals to the design and evaluation of the separation processes. The second part covers the behavior of particles in fluids, with applications in the process industry. 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 and CHEE2700  

CHEE3840  Process Engineering Laboratory  
**Units:** 10  
**Locations:** Callaghan  
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:** CHEE2820  

CHEE3900  Biochemical Engineering  
**Units:** 10  
**Locations:** Callaghan  
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.  
**Assumed Knowledge:** First year Maths and Chemistry, CHEE1150, CHEE2700, CHEE2690, BIOL1010
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 produces a design 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 recognise the effect of uncertainties in their decisions on the viability of the design.

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

CHEE4950B Design Project Part B
Units: 10
Locations: Callaghan
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 recognise 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
Units: 10
Locations: Callaghan
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 produces a design 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 recognise the effect of uncertainties in their decisions on the viability of the design.

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

CHEE4970A Research Project Part A
Units: 10
Locations: Callaghan
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Develops research techniques and 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.

CHEE4980 Advanced Research Project
Units: 10
Locations: Callaghan
Develops research techniques and 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.

CHEE6410 Advanced Coal & Mineral Processing
Units: 10
Locations: Callaghan
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

Develops research techniques and 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).

Program Co-ordinator’s written permission is required for enrolment in this course.

Assumed Knowledge : All courses up to Level 3000.

CHEE6420 Safety and Risk Management
Units: 10
Locations: Callaghan
Fundamental and application of risk management to process safety will be covered. Topics include: toxicology, industrial hygiene, source models, toxic release and dispersion models, fires and explosions, hazard identification, risk assessment and accident investigation techniques.

Assumed Knowledge : First year Maths and CHEE1150
This is one of the two foundation subjects in the key central scientific discipline of Chemistry. Assumed Knowledge: Nil.

CHEM1010 Project Management & Innovation in Process Industry

Units: 10
Locations: Callaghan

This subject includes specific material on planning, selection, estimation and control of chemical engineering processes. Material will be given on 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 proposals, markets, competition, and SWOT analysis as related specifically to chemical engineering industries.

CHEM1110 Chemistry for the Life Sciences I

Units: 10
Locations: Central Coast

Focuses on the foundation concepts of chemistry in the context of the life sciences. In addition, environmental aspects are developed, especially as they illustrate key concepts in chemistry. The subject examines basic atomic and molecular structure, introduces the chemistry of carbon compounds, and illustrates basic physical concepts central to an understanding in the discipline.

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 subject(s) in senior secondary school (or equivalent alternate study, such as Open Foundation). The completion of HSC Chemistry (or an equivalent) is considered highly desirable but not essential.

CHEM1120 Chemistry for the Life Sciences II

Units: 10
Locations: Central Coast

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: No specific prior knowledge is assumed. However, to facilitate success in the subject, it is desirable to have completed prior learning in some science subject(s) in senior secondary school (or equivalent alternate study, such as Open Foundation). The completion of HSC Chemistry (or equivalent), CHEM110C or CHEM101 is considered highly desirable but not essential.

CHEM2110 Analytical Chemistry

Units: 10
Locations: Callaghan

The first part of the course covers an introduction into measurements in analytical chemistry and a short introduction into statistics. The second part provides an introduction to the basic instrumental methods of chemical analysis which are commonly used in analytical laboratories, these include spectrophotometry and atomic absorption. Next important titrimetric methods will be covered: acid-base, complexometric, or redox titrations. Titrations still play an important role in the modern analytical laboratory, to a large extent because many titrations can be fully automated. However, the basic reactions and methods of indication are the same. Particularly the study of the chemical equilibrium is fundamental for all titrimetric methods. Towards the end of the course basic separation techniques including chromatography will be covered. Spreadsheets are introduced for calculations in the lectures and further exercises are done in the tutorials. Theory is brought to practice in the laboratory using a wide range of typical examples.

The course forms part of the accredited degree program required for Membership of Royal Australian Chemical Institute Inc. and Chartered Chemist qualifications.

Assumed Knowledge: CHEM1010 and CHEM1020.

CHEM2210 Inorganic Chemistry

Units: 10
Locations: Callaghan

There are some ninety-two naturally occurring elements as well as a handful of man-made radioactive elements. When in combination, these elements constitute all of our food, shelter, energy sources and everything we manufacture and use in our lives. This course provides a foundation for the understanding of the varying chemistries of the elements of the Periodic Table, with emphasis on inorganic materials. The course includes the descriptive chemistry of many of the most common elements and their compounds, integrating such topics as symmetry and structure, bonding models, reactions and the synthesis and characterization of inorganic compounds. An understanding of the behaviour of elements and their compounds is central to Chemistry and borders the Earth and Life Sciences, as well as Engineering.

The course forms part of the accredited degree program required for Membership of Royal Australian Chemical Institute Inc. and Chartered Chemist qualifications.

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
Units: 10
Locations: Callaghan
Introduces advanced concepts and methods employed in organic chemistry, the branch of chemistry that deals with compounds of carbon. The course covers a core area of the discipline, studying the functional groups of organic molecules, and their chemical reactions. We find out how to make organic compounds (synthesis), how to draw their structure, and how to show that we do have the compound we claim (characterisation).

CHEM2410 Physical Chemistry
Units: 10
Locations: Callaghan
This course 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.

CHEM2510 Applied Chemistry
Units: 10
Locations: Callaghan
The majority of graduate chemists work in applied or industrial chemistry environments. Therefore, it is critical to have an understanding of chemistry in this context. This course aims to provide students with an understanding of chemical systems and how they apply to industrial processes, as well as an understanding of some basic concepts that are relevant to the industrial world.

CHEM2610 Environmental Chemistry I
Units: 10
Locations: Callaghan
Certification
Environmental science is the foundation of the increased environmental understanding today and chemistry plays a major role in this. The properties and reactions of substances in the environment can profoundly influence the world we live in. These substances may be natural or man-made, and there is increasing interest in the interaction between man-made systems and the natural environment. Understanding of the chemical basis of environmental science is developed in this course via studies in the areas of water, earth and atmosphere.

CHEM3110 Instrumental Chemical Analysis
Units: 10
Locations: Callaghan
Chemical instrumentation is increasingly important in providing so much of the data necessary for industry, health science, environment protection, food production and basic research to mention just a few areas. Instrumentation fills only part of the need, as the challenges presented often require highly developed skills and judgement of chemists using these in order for the best results to be obtained. This course develops knowledge, experience and skills related to a variety of mainstream instrumental techniques in areas of spectroscopy, separation science and electrochemistry, and builds on the foundations provided in CHEM2110.

CHEM3210 Metal Complexation, Structure and Reactivity
Units: 10
Locations: Callaghan
Of the one hundredplus elements that are known some 80% are metals, many of which are not only important to biological life itself, but also shape our lives through continuing advances in technology. This course explores aspects of inorganic chemistry with a focus on metal compounds, their structures and their reactions, as well as on their many applications, such as in industry and medicine. From coordination chemistry to organometallic chemistry, the chemistry of the transition metals, lanthanides and actinides are detailed, involving treatment of synthetic methods, structure and structure determination, chemical reactivity and the application of modern spectroscopic methods for the characterization of materials.

CHEM3310 Molecular Organic Synthesis
Units: 10
Locations: Callaghan
The development of modern synthetic materials, whether they be new drugs for the treatment of cancer or for the latest synthetic fabric, require a knowledge of molecular organic synthesis. Students will develop pre-existing skills (from CHEM2110) to a higher level examining a range of synthetic transformations for functional group transformations, carbon-carbon bond formation and skeletal rearrangements, emphasising the chemospecificity, stereo-selectivity and mechanism of these reactions. A logical, applied approach backed up by laboratory work will be utilised to emphasise key concepts. Students will also be introduced to the application of molecular organic synthesis to biological systems. Selected literature classics of chemical synthesis will also be included.

CHEM3410 Energy and Structure
Units: 10
Locations: Callaghan
This course uses the themes of energy and structure to examine aspects of physical chemistry. Electrodics, 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.

CHEM3510 Medicinal and Biological Chemistry
Units: 10
Locations: Callaghan
This course is designed to examine chemistry at the important interface between the chemical and biological sciences. The basic principles of synthetic and structural chemistry are applied to examination of the synthesis of biologically active molecules and drugs, and the structure, activity and interaction of biomolecules, including metalloproteins and natural products. The course aims to develop an understanding of the key features of the rational design of new medicinal agents. The importance of close links between the biological and chemical sciences will become apparent.

CHEM3550 Solids, Surfaces and Colloids
Units: 10
Locations: Callaghan
The course 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.

CHEM3610 Solids, Surfaces and Colloids
Units: 10
Locations: Callaghan
The course 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.
CHEM3610 Environmental Chemistry II

Units: 10
Locations: Callaghan

This course is an extension of the introductory Environmental Chemistry I/II. Topics in the broad divisions of the environment, namely, the hydrosphere, the atmosphere and the geosphere, will be addressed. Topics related to the hydrosphere that will be discussed are the speciation in and removal of inorganic compounds from water and waste water, aspects of pollution by small organic, usually anthropogenic, molecules, and the relationship of microbial biochemistry to freshwater chemistry. The chemistry of the atmosphere will focus on the nature of organic compounds present, the reactions they undergo and photochemical smog. The physico-chemical processes, nutrient cycling and environmental problems associated with soils will be covered in topics related to the geosphere. Waste reduction, treatment and disposal will be reviewed.

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.

CHEM4110 Chemistry Honours 4110

Units: 20
Locations: Callaghan, Central Coast

The Honours program in Chemistry operates as a suite of four courses, which together are employed to produce a single final grade. This course is composed of five formal lecture series that cover broad areas of current chemistry at an advanced level. Topics involved are in the areas of advanced materials, advanced methods of characterisation, advanced synthetic methods, computers in chemistry, and occupational health and safety and quality assurance.

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 4210

Units: 20
Locations: Callaghan, Central Coast

The Honours program in Chemistry 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 chemistry 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: 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 4220

Units: 20
Locations: Callaghan, Central Coast

The Honours program in Chemistry operates as a suite of four courses, which together are employed to produce a single final grade. This course is composed of completion of directed research in a selected area of current chemistry at an advanced level (commenced in CHEM421), and preparation of a major and detailed scientific report on the research project.

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.

CHEM69010 Foundations of Modern Chemistry

Units: 20
Locations: Callaghan

Provides students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 units of material from the following list of courses available at third year level.

CHEM3110 Instrumental Chemical Analysis
CHEM3210 Metal Complexation, Structure and Reactivity
CHEM3310 Molecular Organic Synthesis
CHEM3410 Energy and Structure
CHEM3550 Medicinal and Biological Chemistry
CHEM3560 Materials, Surfaces and Colloids
CHEM3570 Spectroscopic Characterisation of Compounds
CHEM3610 Environmental Chemistry II

Assumed Knowledge: Approved degree in science or technology.

CHEM69020 Topics in Modern Chemistry

Units: 20
Locations: Callaghan

This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. Students must take the 5 credit point topic below:

CHEM600-C Computers in Chemistry (analogous to CHEM400-HC4)

[This topic is designed to introduce the student to the application of word processing, spreadsheets and drawing packages in the preparation of scientific reports. It will further involve an introduction to advanced chemical software packages (such as ChemDraw) and mathematical packages (such as MatLab) employed in chemical research.]

Students must also choose 15 credit points of topic material from the following list of formal lecture courses available at honours year level.

All subjects are of 5 credit points value, so three subjects must be selected, from:

CHEM400-HC1 Advanced Materials
CHEM400-HC2 Advanced Methods of Characterisation
CHEM400-HC3 Advanced Synthetic Methods
CHEM400-HC5 Occupational Health and Safety and Quality Assurance

Specific details for each subject is available in the Bachelor of Science Chemistry Honours Program booklet.

Assumed Knowledge: CHEM691

CHEM69020 Topics in Modern Chemistry

Units: 20
Locations: Callaghan

This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. The topic is designed to introduce the student to the application of word processing, spreadsheets and drawing packages in the preparation of scientific reports. It will further involve an introduction to advanced chemical software packages (such as ChemDraw) and mathematical packages (such as MatLab) employed in chemical research.

Students must also choose topic material from the list of formal lecture courses available at honours year level. Specific details for each subject is available in the Bachelor of Science Chemistry Honours Program booklet.

Assumed Knowledge: CHEM6910

CHEM69030 Advanced Topics in Chemistry

Units: 20
Locations: Callaghan

This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project.

Students must choose 20 units of material based on the following list of reading list courses available in common to honours and masters year level candidates, but examined independently.

All topics are of 5 unit equivalent value, so four topics must be selected in total. Select four of:

- Chemical Toxicology;
- Asymmetric Induction in Organic Chemistry;
- Colloids Stability;
- Solid State Chemistry;
- Gold and Gold Cluster Chemistry;
- Chemical Speciation in Soils and Sediments;
- The Chemistry of Technetium (including application in nuclear medicine);
- Automated Methods of Analysis;
- Synthesis of Natural Compounds;
- Chemical Analysis of Water;
- Electrochemistry Applications;
- Natural Products Biosynthesis;
- Laser Spectroscopy;
- Surfactant Self-Assembly

Specific details for each course is available in the Master of Chemistry Program booklet, available from the Chemistry Office.

Assumed Knowledge: Degree in Chemistry or approved equivalent.
CHIN3100  Advanced Chinese 1  
Units: 20  
Locations: Callaghan  
A comprehensive 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: Chinese proficiency at intermediate level.

CHIN3150  Advanced Written Chinese 1  
Units: 10  
Locations: Callaghan  
A comprehensive language course designed for students who have progressed through the CHIN1101/1110 and CHIN2210/2220 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.

CHIN3200  Advanced Chinese 2  
Units: 20  
Locations: Callaghan  
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.

CHIN3250  Advanced Written Chinese 2  
Units: 10  
Locations: Callaghan  
A comprehensive language course offered as a sequel to CHIN3150. 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: CHIN3150 or equivalent.

CHEM6940  Research Developments in Chemistry  
Units: 20  
Locations: Callaghan  
This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students must choose 20 units of material at an advanced specialist level appropriate to their project area. The latter material is to be provided by their project supervision committee of three, after consultation with the candidate. 
Four topics related to a selected research interest or, in particular, the planned research area, chosen by the subject supervision committee (3 units each)  
These topics will be individually tailored to suit the candidate’s area of interest. Up to two of these CHEM640-8 topics may involve a training component relating to the use and application of specific scientific instruments which will be employed by the student in their CHEM695 and CHEM696 projects. (As an example, a candidate undertaking a project which employs in part gas chromatography can be expected to be assigned a topic on the use and application of gas chromatography in advanced analysis or separation.) Because topics in this part are selected with reference to an individual’s research interest and/or project area selection, prior information is limited, except the candidate can expect material for assessment will be at a comparable level of difficulty to topics in CHEM640.

Assumed Knowledge: Degree in Chemistry or approved equivalent.

CHEM6950  Project I  
Units: 20  
Locations: Callaghan  
Allows students to undertake a research project prepared for in prior or parallel study in CHEM6940. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of experimental results. A typed literature review of a size defined below will be required.  
Assumed Knowledge: CHEM694 (advisory)

CHEM6960  Project II  
Units: 20  
Locations: Callaghan  
This unit allows students to complete a research project prepared for in prior or parallel study in CHEM6950. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of experimental results. A typed literature review of a size defined below will be required.  
Assumed Knowledge: CHEM6950

CHIN1110  Elementary Chinese I  
Units: 10  
Locations: Callaghan  
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 civilisation integrated in instruction in the language.  
Assumed Knowledge: n/a

CHIN1120  Elementary Chinese II  
Units: 10  
Locations: Callaghan  
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 civilisation integrated in instruction in the language. It builds on CHIN1110.  
Assumed Knowledge: CHIN1110

CHIN2210  Intermediate Modern Chinese 1  
Units: 20  
Locations: Callaghan  
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: CHIN1120 or equivalent

CHIN2220  Intermediate Modern Chinese 2  
Units: 20  
Locations: Callaghan  
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
CIVL2050 Engineering computations and probability
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Content covered in course MEC1108 Engineering Computing 1.

CIVL2130 Theory of Structures 1
Units: 10
Locations: Callaghan
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: Content covered in course CIVL1130 Structural and Environmental Mechanics.

CIVL2240 Civil Engineering Materials
Units: 10
Locations: Callaghan
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, stainless steel, aluminium, timber, masonry concrete as a construction material, properties of fresh concrete, hardened concrete, durability of concrete and embedded reinforcement, fire resistance of reinforced concrete, high strength concrete, statistical quality control of concrete, mix design, and laboratory and tutorial classes.
Assumed Knowledge: None, but materials component of CIVL1130 useful.

CIVL2280 Geomechanics 1
Units: 10
Locations: Callaghan
Covers the basics of 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 provide a basis for the geotechnical engineering strand.
Assumed Knowledge: Content covered in CIVL112 Mechanics and Materials.

CIVL2310 Fluid Mechanics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Content covered in course pre-requisite course CIVL1330 Fluid Mechanics and Materials.

CIVL2710 Transportation Engineering
Units: 10
Locations: Callaghan
Presents the methods and underlying principles for the design and control of the elements of road and railway infrastructure. Students also become familiar with transportation system terminology, demand elements, data collection, flow analysis, driver, vehicle and road characteristics, and aspects of road geometrics, road construction, drainage, pavements and maintenance.
Assumed Knowledge: Content covered in courses SURV111, SURV112.

CIVL3160 Reinforced Concrete Design
Units: 10
Locations: Callaghan
Covers the structural design of reinforced concrete and prestressed concrete members. Topics include the structural design of reinforced concrete slabs (including two way slabs and flat plates), beams, columns and footings, prestressed concrete beam.
Assumed Knowledge: Content covered in course CIVL213 Theory of Structures 1.

CIVL3170 Steel Design
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Content covered in course CIVL213 Theory of Structures 1.

CIVL3180 Theory of Structures 2
Units: 10
Locations: Callaghan
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 bounding theorems.
Assumed Knowledge: Content covered in course CIVL2130 Theory of Structures 1.

CIVL3230 Geomechanics 2
Units: 10
Locations: Callaghan
The aim of this course is to introduce the principles of soil mechanics. Its purpose is to provide the foundation for geotechnical and geoenvironmental engineering design.
Assumed Knowledge: Content covered in course CIVL228 Geomechanics 1.

CIVL3330 Hydrology
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Content covered in courses CIVL381 Engineering Computations and Probability, and CIVL231 Fluids Mechanics.

CIVL3410 Hydrobiological Modelling
Units: 10
Locations: Callaghan
Introduces the notions of mixing, diffusion and dispersion modelling. It extends the ideas of Fluid Mechanics CIVL2310 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. 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: Content covered in courses CIVL2310 Fluid Mechanics, CIVL3330 Hydrology, CIVL2050 Engineering Computations and Probability.

CIVL3420 Land Surface Processes
Units: 10
Locations: Callaghan
Brings together a general understanding of environmental physics, acquisition and use of environmental data and numerical modelling of transport of particles and nutrients. Students use GIS and digital terrain databases in distributed environmental models. Students will gain experience with several management tools for addressing environmental degradation, focussing on erosion, salinity, disposal of effluents, and mine site rehabilitation.
Assumed Knowledge: Co-requisites: CIVL3330 Hydrology; Prerequisites: CIVL2050 Engineering Computations and Probability, SURV2650 Spatial Data Systems and Remote Sensing.

CIVL3470 Contaminant Hydrogeology
Units: 10
Locations: Callaghan
The theory of groundwater flow and the transport of pollutants in groundwater are 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.
Assumed Knowledge: Content covered in courses CIVL133, CIVL205, and MATH231.

CIVL3530 Project and Asset Management
Units: 10
Locations: Callaghan
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.
CIVL3830  Stress and Finite Element Analysis
Units: 10
Locations: Callaghan
Covers the general theory of elasticity and finite element methods. Topics in the theory of elasticity include strain and stress 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 lagrange interpolation, 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
Units: 10
Locations: Callaghan
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.

CIVL4120  Residential Footings/Masonry/Timber Design
Units: 10
Locations: Callaghan
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 clays, various footing systems and their characteristics, design performance expectations, numerical models for soil-structure interaction and structural design.
Assumed Knowledge: Content covered in courses CIVL328 Soil Mechanics, CIVL317 Steel Design and CIVL316 Reinforced Concrete Design.

CIVL4200  Geotechnical and Geoenvironmental Engineering
Units: 10
Locations: Callaghan
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, geosynthetics and landfill design. Analytical and numerical methods required for aforementioned topics are described. The course material is illustrated by numerous case studies and professional competence is fostered through an integrated set of assignments.
Assumed Knowledge: Content covered in courses CIVL228 Geomechanics 1 and CIVL328 Geomechanics 2.

CIVL4450  Water Engineering
Units: 10
Locations: Callaghan
This course provides an introduction to water engineering practice. It draws on earlier courses 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.
Assumed Knowledge: Content covered in courses CIVL2310 Fluid Mechanics, CIVL3330 Hydrology, and CIVL2050 Engineering Computations and Probability.

CIVL4510  Management of Technological Risks
Units: 10
Locations: Callaghan
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 risk 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
Units: 10
Locations: Callaghan
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 prerequisite. But analysis and design of structures is carried out in this course.

CIVL4540  Water Engineering Design
Units: 10
Locations: Callaghan
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: Content covered in course CIVL3450 Water Engineering.

CIVL4570  Geotechnical Engineering Design
Units: 10
Locations: Callaghan
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 prerequisite. But analysis and design of geotechnical systems is carried out in this course.

CIVL4590  Environmental Engineering Design 1
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Students must satisfy standard entry requirements for fourth year environmental engineering.

CIVL4600  Environmental Engineering Design 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Students must satisfy standard entry requirements for fourth year environmental engineering.

CIVL4640  Project S1
Units: 10
Locations: Callaghan
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 courses to be able to complete their program requirements in the year of enrolment.

CIVL4660  Project S2
Units: 10
Locations: Callaghan
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 courses to be able to complete their program requirements in the year of enrolment.

CIVL4670A Advanced Project A
Units: 10
Locations: Callaghan
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 courses to be able to complete their program requirements in the year of enrolment.

CIVL4670B Advanced Project B
Units: 10
Locations: Callaghan
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 courses to be able to complete their program requirements in the year of enrolment.
CIVL4680 Advanced Geomechanics
Units: 10
Locations: Callaghan
The course considers advanced topics in geomechanics such as plasticity theory, critical state soil models, site investigation, in-situ testing, laboratory testing, interpretation of test results, and coupled transport problems in environmental geotechnics.
Assumed Knowledge: Assumed knowledge is material covered in CIVL2280 Geomechanics 1 and CIVL2380 Geomechanics 2.

CIVL4940 Special Topic
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Variable.

CIVL4950 Special Topic
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Variable.

CIVL6330 Hydrology
Units: 10
Locations: Callaghan
Hydrology and the hydraulics of open channels. Topics include analysis 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. Characterization of steady flow, controls and channel design. Unsteady flow in channels.
Assumed Knowledge: Fortran programming, basic probability and statistics and elementary engineering fluid mechanics

CIVL6400 Water Engineering
Units: 10
Locations: Callaghan
This course provides an introduction to water engineering practice. It draws on earlier courses in fluid mechanics, hydrology, statistics and shows how the concepts developed in the earlier subjects 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: 10 hours per week.
Assumed Knowledge: CIVL132 Environmental Fluid Mechanics; CIVL231 Fluid Mechanics; CIVL333 Hydrology; CIVL205 Engineering Computations and Probability - or equivalent

CIVL6430 Land and Water
Units: 10
Locations: Callaghan
Introduces land surface processes, review environmental monitoring techniques and introduce students to complex modelling techniques for important land surface processes. The course brings together a general understanding of environmental physics, acquisition and use of environmental data and numerical modelling of transport of particles and nutrients. Students will gain experience with several management tools for addressing environmental degradation, focusing on erosion, salinity, disposal of effluents, and mine site rehabilitation.
Assumed Knowledge: Co-requisites: CIVL3330 Hydrology; CIVL3810 Statistical Methods
Prerequisites: SURV2650 Spatial Data Systems/Remote Sensing

CIVL6590 Management of Technological Risks
Units: 10
Locations: Callaghan
Considers the assessment and evaluation of risks associated with a wide variety of engineering and 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.
Internal Mode:
Lectures will present theoretical background material and problem orientated exercises. Also included are four to six problem solving assignments, and a final term project which will involve students presenting a short seminar to the class.
External Mode:
Presentation of theoretical material will be through mailed custom prepared notes and through reading a text book on risk assessment recently published by the lecturers (Stewart & Melchers). Consultation with teaching staff will be made available via email, phone or fax. Finalisation of the term project will require students to visit the campus for project presentation.
Contact hours: 4 hours per week.
Assumed Knowledge: N/A

CIVL6670 Industrial Systems Project/Seminar
Units: 40
Locations: Callaghan
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s experience. Results are communicated in the form of a seminar, and final report.
Assumed Knowledge: Graduate enrolment.

CIVL6670A Industrial Systems Project/Seminar
Units: 20
Locations: Callaghan
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s experience. Results are communicated in the form of a seminar, and final report.
Assumed Knowledge: Graduate enrolment.

CIVL6670B Industrial Systems Project/Seminar
Units: 20
Locations: Callaghan
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s experience. Results are communicated in the form of a seminar, and final report.
Assumed Knowledge: Graduate enrolment.

CMNS1000 Introduction to Digital Communication
Units: 10
Locations: Callaghan
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, focusing particularly on the Internet. Students will also gain skills in the use of the Internet as a research tool for communication culture.
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
Units: 10
Locations: Callaghan
This course introduces students to the skills, knowledge and ability required to produce documentary video 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.
Assumed Knowledge: As this is an introductory course there is no assumed knowledge.

CMNS1040 Introduction to Video 2
Units: 10
Locations: Callaghan
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: CMNS1030 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
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Nil

CMNS1060 Audio Programs
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: CMNS1050 or an equivalent competent ability to apply an introductory level understanding of acoustics, sound recording and audio editing.
CMNS1280 Introduction to Journalism
Units: 10
Locations: Callaghan
Introduces students to the profession 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: Nil as it is an introductory course.

CMNS1280 Introduction to Professional Writing
Units: 10
Locations: Callaghan
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

CMNS1110 Introduction to Communication Studies
Units: 10
Locations: Callaghan
Introduces students to the key terms, concepts and major theoretical positions in communication studies. It explores the relationship between communication, media, culture and society and pays particular attention to media production, news and information, advertising and persuasion, audiences, technology, gender and culture.

Assumed Knowledge: CMNS1030 and CMNS1040. It will be assumed that

CMNS2060 Media Interviews
Units: 10
Locations: Callaghan
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. The 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.

Assumed Knowledge: CMNS2360, or CMNS1030, or CMNS1050 or an equivalent competent ability to apply an introductory level understanding of communication theory, basic microphone and/or camera field recording techniques.

CMNS2070 Research for Communication Practice
Units: 10
Locations: Callaghan
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.

CMNS2240 Public Affairs
Units: 10
Locations: Callaghan
Gives students 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 Australian society, with a particular emphasis on the practice of these processes.

Assumed Knowledge: 60 units at 1000 level including CMNS1090, or CMNS1280 or CMNS1280.

CMNS2280 Magazine Journalism
Units: 10
Locations: Callaghan
Introduces students to the magazine genre of professional journalism through critical reflection on self and published works and consideration of 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 internally, supported with guest lectures from professional practitioners.

Contact hours: 2 hours per week
Assumed Knowledge: CMNS1090. Introduction to Professional Writing and CMNS1280

CMNS2290 Public Relations Issues and Strategies
Units: 10
Locations: Callaghan
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 organisation’s 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: CMNS1090 and CMNS1290. 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.

CMNS2360 Introduction to Broadcast Journalism
Units: 10
Locations: Callaghan
Introduces students 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 CMNS3300 Broadcast Journalism.

Assumed Knowledge: Equivalent of two semesters study in journalism, radio and/or video production.

CMNS2620 Media Ownership and Control
Units: 10
Locations: Callaghan
Explores the structures that govern the ownership and control of media and commitment 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, and includes comparative studies of media ownership and control in other countries.

Assumed Knowledge: CMNS1110 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
Units: 10
Locations: Callaghan
This course will focus on sound and studio sound recordings which are designed to construct recorded 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.

Assumed Knowledge: CMNS1090 or an equivalent competent ability to apply introductory level skills in sound recording and audio editing and an understanding of the fundamental principles of acoustics relevant to audio communication.
CMNS2720 Media, Law, Ethics
Units: 10
Locations: Callaghan
This course provides students with an understanding and knowledge of the key laws pertinent to media production in Australia. The course provides an understanding of how and why the regulatory environment impacts upon Australian media organisations and media production. The course pays equal attention to a broad range of ethical issues pertinent to media production, and the frameworks and methods for ethical decision-making with regard to such issues.
Assumed Knowledge: 60 units at 1000 or 2000 level.

CMNS3070 Advanced Audio Communication
Units: 10
Locations: Callaghan
Provides students with opportunities to develop knowledge and skills in radio broadcasting, audio production and sound design for a range of communication projects. The course is project based, focusing on real-world problem solving 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; programmes and/or programmes; 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: CMNS1050 or CMNS3310 or CMNS2670 or equivalent
Competent ability to apply techniques of: audio recording in the field and in studios; and, of non-linear audio editing to the realization of new audio works.

CMNS3110 Advanced Video Post Production
Units: 10
Locations: Callaghan
This course provides students with the skills, knowledge and ability to work as part of a team to explore the various forms of video production with a view to increasing student's production skills and understanding of video as a medium of communication and artistic expression. Students will be encouraged to use non-linear editing software packages such as Media 100 but may also use their own home video software packages such as Final Cut Pro or Premiere.
Assumed Knowledge: CMNS2030 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)
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: CMNS1030 Introduction to Video 1, CMNS1090 or equivalent understanding of production, writing and analysis.

CMNS3180 Screenwriting (Drama)
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: CMNS1030 - Introduction to Video 1, CMNS1090 or equivalent understanding of production, writing and analysis.

CMNS3240 Applied Communication Studies
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 60 units at 2000 level with the Approval of the Head of School.

CMNS3250 Electronic Media Studies
Units: 10
Locations: Callaghan
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: CMNS1100 or CMNS1030 or CMNS1040 or an equivalent understanding of Internet, radio, or video production.

CMNS3270 Communication and Discourse
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 60 units at 1000 level including CMNS1110 - Introduction to Communication Studies.

CMNS3290 Applied Public Relations
Units: 20
Locations: Callaghan
Through this course students will engage directly with professionals in the fields of public relations and communication. This direct experience will expose students to the discourses and practices of the industry and will require that students consider the many complex and subtle factors which influence public relations outcomes.
Assumed Knowledge: CMNS2190 - Introduction to Public Relations Practice and CMNS2290 - Public Relations Issues and Strategies will provide an essential foundation for this subject. Students will be expected to understand the culture, terminology and core of public relations practice and have the basic skills to engage with external professionals.

CMNS3300 Broadcast Journalism
Units: 10
Locations: Callaghan
Advanced study in reflective professional practice in broadcast journalism. Through a variety of assigned tasks and self-directed learning, students will use research, interviewing and writing skills to prepare journalism for broadcast media. Students will also demonstrate a solid understanding of the ethical and legal obligations of journalism and advanced problem-solving skills. Technical skills are not taught in this course, it is part of assumed knowledge and covered in CMNS2360.
Assumed Knowledge: 60 units at 2000 level including CMNS2360 - Introduction to Broadcast Journalism.

CMNS3320 International Media Studies
Units: 10
Locations: Callaghan
Examines the relationship between the media and the societies and cultures within which they exist, nationally, internationally and globally.
Assumed Knowledge: 60 units at 2000 level

CMNS3330 Virtual and Cultural Places
Units: 10
Locations: Callaghan
Students will engage in the development of web sites and VR (Virtual Reality) movies as a vehicle for examining time, space, and identity based forms of multimedia communication. The course will map the relationships between the contributing disciplines, theoretical positions, and communication and media practice. In particular the course will investigate the relationship between “virtual” and “real” cultural places.
Contact hours: 2 hours per week (lectures and computer laboratory production/ workshop sessions)
Assumed Knowledge: CMNS2330 - Multimedia on the Web

CMNS3360 Independent Production
Units: 10
Locations: Callaghan
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 Audio Project
Units: 10
Locations: Callaghan
This course explores a range of conceptual, analytical, operational and production strategies as applied in the creation of radio including drama and features, television and video projects, music recordings, audio arts, internet audio, new media and other aural works. Connections will be made between sound design, manipulating sound as a communicative endeavour, available technology and audio production. The use of digital, computer-based production facilities and timecode in synchronisation is analysed and may be applied as a component of contemporary audio techniques.
Assumed Knowledge: CMNS2310 or CMNS3070 Advanced Audio Communication

CMNS3380 Editing Electronic Publications
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: CMNS1000 and CMNS2130
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.

Enables students to produce a thesis or a creative project that is directed to a particular research problem and demonstrates a sound grasp of the general context in which that problem is addressed. It is expected that the thesis or creative project will be theoretically, methodologically and technically sophisticated.

Contact hours: By arrangement

Assumed Knowledge: Preferably a credit average in the major area of study through completion of the requirements for admission to the degree of Bachelor of Arts (Communication Studies) of the University. This is also applicable to any other degree approved for this purpose by the Faculty Board plus completion of any additional work prescribed in accordance with the policy determined by the Faculty Board on the recommendation of the Head of the Department of Communication and Media Arts.

COMP1050 Internet Communications

Units: 10

Locations: Callaghan

Introduces Internet communication and the fundamental concepts of Internet architecture and how they support the massive growth and varied uses of the medium.

A strong 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

Units: 5

Locations: Callaghan

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

COMP2220 Theory of Computation

Units: 10

Locations: Callaghan

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, some complexity theory is presented.

Assumed Knowledge: SENG1120, MATH1510

COMP2230 Introduction to Algorithmics

Units: 10

Locations: Callaghan

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 the 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.

Assumed Knowledge: SENG1120, MATH1510
COMP2240 Operating Systems
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: SENG1120

COMP3250 Database Systems
Units: 10
Locations: Callaghan
Covers the three level architecture for database systems, the relational database model, database normalization, data security and integrity, recovery and concurrency, optimization and distributed and 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.
Assumed Knowledge: SENG1120

COMP3260 Data Security
Units: 10
Locations: Callaghan
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: SENG1120, MATH1510

COMP3290 Compiler Design
Units: 10
Locations: Callaghan
The purpose of this subject is to study how high-level languages can be implemented on a computer.
Assumed Knowledge: COMP2220, SENG1120

COMP3310 Advanced Algorithmics
Units: 10
Locations: Callaghan
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 optimisation.
Assumed Knowledge: COMP2230

COMP3320 Computer Graphics
Units: 10
Locations: Callaghan
Studies issues related to the displaying of objects, which may include: 2D drawing primitives, homogeneous coordinates, curves and surfaces, 2D & 3D geometrical transformation, projections, geometric models, 3D viewing, visible-surface determination, illumination and shading, ray tracing and radiosity, and real time rendering, colour modes, computer vision.
Assumed Knowledge: SENG1120, MATH1110

COMP3330 Machine Intelligence
Units: 10
Locations: Callaghan
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; game tree search formal classical predicate logic; syntax, semantics, problem-solving; automated reasoning for agents; knowing and reasoning; acting logically; artificial life; neural networks; adaptive robotics; brain theory; learning; machine learning.
Assumed Knowledge: SENG1120, MATH1510 and MATH1110

COMP4110 Special Topic A
Units: 10
Locations: Callaghan
COMP4110, COMP4120 and COMP4130 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 deepen and enhance the students understanding of the frontier of knowledge.
Assumed Knowledge: Permission from Head of Discipline

COMP4120 Special Topic B
Units: 10
Locations: Callaghan
COMP4110, COMP4120 and COMP4130 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 course 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 deepen and enhance the students understanding of the frontier of knowledge.
Assumed Knowledge: Varies according to detailed content. Permission from Head of Department.

COMP4140 Special Topic D
Units: 20
Locations: Callaghan
Consists of a series of lectures, consultations with advisers, and practical work in an area of advanced computer science of contemporary interest. The content of this course may vary from year to year according to developments in technology, links with industrial partners, and the presence of academic visitors.
Assumed Knowledge: Permission from Head of Discipline

COMP4250A Honours Project - Part A
Units: 10
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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.

COMP4500 Distributed Operating Systems
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: SENG3300, COMP3320 and permission from Head of Discipline

COMP4530 Information Visualization
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: SENG3300, COMP3320 and permission from Head of School
**COMP4540** Electronic Commerce
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: COMP2220 and permission from Head of Discipline

**COMP4550** Knowledge Discovery and Data Mining
Units: 10
Locations: Callaghan
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 semi-automatic 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

**COMP6050** Internet Communications
Units: 10
Locations: Callaghan, WebLearn
Internet communication is principally devoted to the highest layer in the network architecture, the application layer. This course also introduces the fundamental concepts of Internet Architecture and how they support the massive growth and varied uses of the medium. A strong emphasis is placed on both reviewing latest research on internet development and practical skills, such as using various communication techniques, building simple web applications and securing information via encryption. The subject is designed to give a sound introduction to the research on Internet development and an understanding of the technologies potential as well as its limitations. Basic computing experience is required.
Assumed Knowledge: Basic Computer experience

**COMP6230** Introduction to Algorithms
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: SENG6110

**COMP6250** Database Systems
Units: 10
Locations: Callaghan, WebLearn
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. The course will share lectures with COMP3250 Database Systems.
Assumed Knowledge: SENG1120

**COMP6290** Compiler Design
Units: 10
Locations: Callaghan
The purpose of this subject is to study how high-level languages can be implemented on a computer. This subject shares Lectures with Comp290.
Assumed Knowledge: COMP2220, SENG2120

**COMP6350** Advanced Algorithms
Units: 10
Locations: Callaghan
Emphasizes 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 optimisation.
Assumed Knowledge: COMP2230

**COMP6360** Data Security
Units: 10
Locations: Callaghan
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 storage and communication.
Assumed Knowledge: Good programming skills. Knowledge of discrete mathematics.

**COMP6370** Computer Graphics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 1. Familiarity with
   a. elementary linear algebra (vectors, matrices) and geometry.
   b. elementary calculus (for some parts of the course).
2. Some Computer Science
   a. reasonable programming skills
   b. elementary data structures and algorithms.

**COMP6380** Machine Intelligence
Units: 10
Locations: Callaghan
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; game tree search; formal classic predicate logic; syntax, semantics; problem-solving; automated reasoning for agents; knowing and reasoning; acting logically; artificial life; neutral networks; adaptive robotics; brain theory; learning; machine learning.
Assumed Knowledge: Equivalent to a completed 2nd year Bachelor of Computer Science

**CULT1050** Media, Culture & Society
Units: 10
Locations: Callaghan
Studies Culture & Society analyses the complexity of our 'ways of seeing' the world by providing a widescreen, 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 an approved course in the Bachelor of Communication, a component of the Media and Cultural Studies Major in the Bachelor of Arts and Bachelor of Social Science, and a free elective offering in several other degree programs in the University.
Assumed Knowledge: N/A

**CULT1100** Communication and Culture
Units: 10
Locations: Callaghan
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 representational forms and practices. Topics include: cultural representations, constructions of identity and difference, and cultural production and consumption.
Assumed Knowledge: Nil

**CULT2130** Media Structures and Practices
Units: 10
Locations: Callaghan
This is a core course in the Bachelor of Communication that 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 Media and Cultural Studies. The course analyses the institutional boundaries and routines of the media to seek a more comprehensive understanding of media and media personnel as cultural intermediaries engaged in a variety of relationships with audience taste cultures.
Assumed Knowledge: 60 units at 1000 level
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>CULT2410</td>
<td>Gender, Sexuality and Leisure</td>
<td>10</td>
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<td>Assumed Knowledge: LEIS1110 or SOCA1010 or LEIS1050 or GEND1020</td>
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<tr>
<td>CULT3140</td>
<td>Cyberculture</td>
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<td>Assumed Knowledge: 40 units 1000 level courses</td>
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<tr>
<td>CULT3141</td>
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<tr>
<td>CULT3240</td>
<td>Popular Culture and Society</td>
<td>10</td>
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<td>Assumed Knowledge: 60 credit points at 200 Level</td>
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<td>CULT3250</td>
<td>Technology and Social Change</td>
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<td>Assumed Knowledge: 60 units at 200 Level</td>
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<tr>
<td>CULT4010</td>
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<td>Assumed Knowledge: Credit Average in undergraduate Cultural Studies courses or equivalent</td>
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<td>CULT4020</td>
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<td>CULT4030</td>
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<td>Assumed Knowledge: Credit Average in undergraduate Cultural Studies courses or equivalent</td>
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<td>CULT4040</td>
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<td>Assumed Knowledge: Credit Average in undergraduate Cultural Studies courses or equivalent</td>
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<tr>
<td>CULT6140</td>
<td>Virtual Culture</td>
<td>10</td>
<td>Callaghan</td>
<td>Assumed Knowledge: nil</td>
</tr>
</tbody>
</table>
The study of Natural History Illustration requires that students gain a diverse range of skills, concepts and knowledge which result in the effective combination of field studies with studio practice. This course introduces students to studio practice and methodology specific to the Natural History illustrator by exposing them to a broad range of studio techniques, concepts and processes. It provides students with the basis for understanding of the theoretical context of Natural History Illustration in the world today.

The course consists of two project blocks during which students will be introduced to studio practice and its effective collaboration with field studies.

Assumed Knowledge : Nil.

DESN1550 Natural History Field Studies 2
Units: 10
Locations: Callaghan
The ‘natural’ world provides a huge range of data which can be used by the Natural History Illustrator to convey visual information to audiences from the sciences to young children.

Recording and interpreting information in the field is essential to the study of Natural History Illustration. This course extends the student's knowledge of effective field study methods by applying these skills to a range of local habitats.

The course consists of two project blocks which include some day excursions to a variety of accessible habitats. Students will gain experience in field recording techniques, documenting climate and seasonal changes and specimen collection and preparation.

Assumed Knowledge : DESN1520 or demonstrated equivalent skills.

DESN1560 Natural History Studio Studies 2
Units: 10
Locations: Callaghan
Natural History Illustration requires the visual interpretation of aspects of the natural world and this course extends both the technical and creative skills of the student necessary for successful studio practice. The course also exposes students to the broad range of applications of Natural History Illustration and its importance in today's world.

The course consists of two project blocks during which students will be introduced to studio practice and its application to the sciences.

Assumed Knowledge : DESN1530 or demonstrated equivalent skills.

DESN1910 Graphics 1
Units: 10
Locations: Callaghan
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.

Assumed Knowledge : Nil.

DESN1920 Graphics 2
Units: 10
Locations: Callaghan
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 : DESN1910.

DESN2010 Australian Design History
Units: 10
Locations: Callaghan
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.

DESN2030 Issues in Design
Units: 10
Locations: Callaghan
Design is a process of thought and action. In this course the thinking underpinning the results of contemporary design are explored. Students are introduced to some of the varied perspectives and influences that underlie development in design theory. It will attract students from diverse backgrounds who are interested in understanding how design is understood in context. The work of current designers and contemporary culture are used as reference points.

Assumed Knowledge : Nil.

DESN2100 Typography
Units: 10
Locations: Callaghan
Considers sensitivity to typography and demonstrates how it can improve the graphic communication process. Emphasis is placed on developing ability to select suitable type styles for prepared designs, and understanding typographic terminology.

Assumed Knowledge : DESN1100, DESN1110, DESN1300.
DESN2120 Visual Communication Major Study Skills 1  
Units: 10  
Locations: Callaghan  
Offers an introduction to the three specialist areas of digital media design, graphic design, and illustration. Students will develop their skills and knowledge of the design process in the context of the specialist areas, together with the application of creative and analytical skills. The development of skills is realised through theme-based studio projects.  
Assumed Knowledge: DESN1100, DESN1110

DESN2130 Visual Communication Major Study Skills 2  
Units: 10  
Locations: Callaghan  
Visual communication and its specialist skills are further studied and developed through emphasis on critical analysis of the project work, with a view towards the third year major study. Creative and analytical skills are further advanced and enhanced through continued thematic studio project work and optional elective studies in the specialist areas.  
Assumed Knowledge: DESN1100, DESN1110

DESN2140 Advertising Design  
Units: 10  
Locations: Callaghan  
Expands the graphic design process by applying design principles appropriate to advertising problem solving. Emphasis is placed on creative problem solving, presentation skills, group interaction, and advertising theory and practice.  
Assumed Knowledge: DESN1100, DESN1110

DESN2200 Illustration for Industry  
Units: 10  
Locations: Callaghan  
Provides an opportunity to develop skills and concepts which relate to illustration and its industrial and technical application.  
Assumed Knowledge: DESN1210, DESN1220

DESN2210 Interpretive Illustration  
Units: 10  
Locations: Callaghan  
Provides an opportunity to develop skills and knowledge of creative imagery and its translation into illustration of appropriate text. Areas such as narrative illustration, cartooning, and illustration for animation will be investigated.  
Assumed Knowledge: DESN1200, DESN1210

DESN2230 Design for Digital Media  
Units: 10  
Locations: Callaghan  
Examines the use of digital technology associated with design media intended for reproduction. The studio environment will be centred on a project-based learning model. Emphasis is placed on digital image creation and manipulation, output technologies and professional studio practice specific to digital media.  
Assumed Knowledge: DESN1300

DESN2240 Screen-based Digital Media  
Units: 10  
Locations: Callaghan  
Examines the use of digital technology associated with design media intended for screen-based presentation. The studio environment will be centred around a project-based learning model. Emphasis is placed on pixel-based imaging, design for digital time based media, and design for the www (world wide web).  
The course explores the specific application of digital and related technologies to screen-based design. Theory and practice, fundamental to design technology, is expanded and supplemented with specific practices and theories of design for interactive media, time-based media and the www.  
Assumed Knowledge: DESN1300

DESN2250 3-D Graphic Design  
Units: 10  
Locations: Callaghan  
Provides an opportunity for students to explore 3-dimensional graphic design. Experiences will include experimentation and investigation into materials, substrates, equipment and technologies relevant to design for packaging, exhibition and display.  
Assumed Knowledge: DESN1300

DESN2260 Visual Communication Technology 2  
Units: 10  
Locations: Callaghan  
Provides an introduction to the role of pre-press and print in the graphic arts. Students will develop their skills and knowledge of the design process in the context of the specialist areas, together with the application of creative and analytical skills. The development of skills is realised through theme-based studio projects.  
Assumed Knowledge: DESN2100, DESN2120.

DESN2270 Web Multimedia  
Units: 10  
Locations: Callaghan  
Multimedia on the Web is already central to e-business, entertainment and education. With broadband delivery and real-time, immersive environments escalating, the application of Web Multimedia is set to explode. This course provides an introduction to the area of Multimedia on the World Wide Web. It will attract students from diverse backgrounds who are interested in the multi-disciplinary nature of the creative professions and looking for a career in the applications of new media.  
Assumed Knowledge: 60 units at 1000 level including CMNS1000 - Introduction to Digital Communication

DESN2300 Design Studio Photography  
Units: 10  
Locations: Callaghan  
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. The aim of this course is to develop an understanding of commercial photographic practices relevant to visual communication.  
Assumed Knowledge: DESN1310

DESN2310 Visual Communication Imaging  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
An appreciation and breadth of experience in the visual interpretation of the natural environment and its application to scientific illustration is gained in this course. Topics are designed to develop skills and concepts of study and field work in a broad range of techniques and materials that will stimulate contemporary scientific illustration practice. Emphasis will be placed on attaining vocational and professional attitudes.  
Assumed Knowledge: DESN1200, DESN1210 or level 1000 Fine Art or 1000 level Science.

DESN2720 Wildlife Illustration  
Units: 10  
Locations: Callaghan  
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 wildlife 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.  
Assumed Knowledge: DESN1200, DESN1210 or level 1000 Fine Art or 1000 level Science.

DESN2930 Graphics 3  
Units: 10  
Locations: Callaghan  
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

DESN3000 Visual Communication: Forms & Functions  
Units: 10  
Locations: Callaghan  
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: DESN2010, DESN2030

DESN3010 Australian Design History  
Units: 10  
Locations: Callaghan  
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
DESN3100 Graphic Design Images and Ideas
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN120, DESN121
Designed 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: DESN3110

DESN3110 Advertising Design
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3120, DESN3121
Designed for continuing Bachelor of Design (Graphic) students only. 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

DESN3120 Visual Communication Major Study - Part 1
Units: 20
Locations: Callaghan
Assumed Knowledge: DESN210, DESN2120
Focuses on the range of skills, knowledge and attitudes relevant to professional visual communication practice.

DESN3130 Visual Communication Major Study - Part 2
Units: 20
Locations: Callaghan
Assumed Knowledge: DESN3120, DESN3130
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.

DESN3200 Design for Digital Media 1
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3200
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

DESN3210 Design for Digital Media 2
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3210, DESN3211, DESN3231
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

DESN3220 Technical Illustration 3
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3210, DESN3221, DESN3231, DESN3320
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 studio hour per week

DESN3310 Graphic Design Production
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3110, DESN3120
Designed 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 studio hour per week

DESN3400 3D Graphic Design
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3400
Designed 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/photographic 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 studio hour per week

DESN3410 Visual Communication Project
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3410
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.

DESN3710 Wildlife Illustration 1
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3710
A practical study of the design and development of wildlife illustrations and the characteristics of professional visual communication projects.

DESN3720 Wildlife Illustration 2
Units: 10
Locations: Callaghan
Assumed Knowledge: DESN3720
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

DESN4000 Visual Communication Honours A
Units: 20
Locations: Callaghan
Assumed Knowledge: DESN4000
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.

DESN4010 Visual Communication Honours B
Units: 20
Locations: Callaghan
Assumed Knowledge: DESN4010
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.

DESN4020 Visual Communication Honours C
Units: 20
Locations: Callaghan
Assumed Knowledge: DESN4020
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.
DESN4030 Visual Communication Honours D
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: Appropriate undergraduate degree at credit level or above.

DESN4100 Graphic Design C
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: DESN3100, DESN3110, DESN3310, DESN3200, DESN3210

DESN4110 Graphic Design D
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: DESN3100, DESN3110, DESN3310, DESN3210
Assumed concurrent knowledge: DESN4100, DESN4120

DESN4120 Graphic Design E
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: DESN4100

DESN6200 Digital Media
Units: 10
Locations: Callaghan
The course will provide an opportunity for architects, design and construction professionals to engage with functional use of digital media as a powerful visual communication tool for design, problem solving, communication and marketing.
Assumed Knowledge: - Completion of Bachelor of Architecture ARCH1510 or equivalent - Professional Registration as an Architect or equivalent or - Demonstrated industry experience

DESN6300 Intro. to Multimedia Des. & Effective Commun.
Units: 10
Locations: Callaghan
On-line from Callaghan
This course aims to promote an understanding and appreciation of the use of the Web and multimedia for effective communication, it is aimed in particular at business communication although similar techniques may be used, albeit on a different scale, for personal home-pages and for larger corporations. The course is designed to encourage students to explore their own working environments and assess the effectiveness and efficiency of any use of digital multimedia used in their workplace. It will examine both the technology and thinking behind using multimedia in this context and present a number of case studies and examples for discussion.
The course will assume no previous knowledge of multimedia technology and systems. Because of the variety of software available, commercial, shareware and freeware, this course will be non-software specific and will assume that the student will have access to at least the minimum software and equipment necessary to work through this course.
Assumed Knowledge: Nil

DESN6410 Usability and Interaction Design
Units: 10
Locations: WebLearn
Usability rules the Web. Simply stated, if the customer cannot find the desired product or service easily then they will go elsewhere, usually to a competitor. This course examines effective usability through case studies and the principles of interaction design. The course explains what is known about the properties of easy to use Web sites and examines ways in which to identify and focus upon the needs of the user. Special issues covered include intranets, users with disabilities and international users.
Assumed Knowledge: The course will assume that students have no previous knowledge of this field of study, however, it is assumed that students have a basic level of computer literacy.

DESN6430 Virtual Reality and Computer Games
Units: 10
Locations: WebLearn
On-line from Callaghan
This course examines the field of Virtual Reality and differentiated fact from fiction. It outlines the core technologies which underlie the principles of Virtual Reality (VR) and the way in which it is being applied today, as well as the exciting promises that it holds for the future. One of the domains that is driving VR today is the digital entertainment and computer games industries. This course will focus on the area of Computer Games, their development, identify necessary skills and examine the areas of pre to post production, offering many sources of further information, industry contacts and links along the way. This course offers a solid grounding in this rapidly expanding entertainment industry.
Assumed Knowledge: N/A

DESN6440 Interactive Multimedia and Media Design
Units: 10
Locations: WebLearn
On-line from Callaghan
The course Interactive Multimedia and Design promotes an understanding and appreciation of the use of multimedia, including the Internet, and the technologies and design related to these fields. This course is aimed at business use and the base development procedures involved in incorporating multimedia into business communications. The same techniques could be applied to any project development involving multimedia.
Assumed Knowledge: N/A

DRAM1010 Introduction to Drama 1
Units: 10
Locations: Callaghan
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 performance takes 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.
Assumed Knowledge: Nil

DRAM1020 Introduction to Drama 2
Units: 10
Locations: Callaghan
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 appropriate 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.
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

DRAM2210 Performance Histories I
Units: 10
Locations: Callaghan
On-line from Callaghan
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
Units: 10
Locations: Callaghan
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

DRAM2300 Modernism & Performance I
Units: 10
Locations: Callaghan
Examines various forms of modernist performance. It offers a detailed study of aspects of some major European performance styles, forms and traditions, and of the social and cultural contexts which shaped them in the period 1900-1950.
Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2400 Modernism & Performance II
Units: 10
Locations: Callaghan
Offers a detailed study of aspects of some major European performance styles, forms and traditions, and of the social and cultural contexts which shaped them in the period 1900-1950.
Assumed Knowledge: Successful completion of DRAM101 and DRAM102

DRAM2301 Primary Drama in Action
Units: 10
Locations: Callaghan
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
DRAM2302  Drama across the Primary Curriculum
Units: 10
Locations: Callaghan
This course aims to provide knowledge and skills through which students are able to integrate Drama through the Key Learning Areas of the Primary curriculum.
Assumed Knowledge: EDUC1003 - Learners and the Learning Process
EDUC2030 - Teaching and Learning in English K-6
DRAM2301 - Primary Drama in Action

DRAM2700  Acting I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Successful completion of DRAM1010 and DRAM1020.
Concurrent assumed knowledge: 1 course drawn from DRAM2210-2240.

DRAM2710  Acting II
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Successful completion of DRAM2700. Concurrent assumed knowledge: 1 course from DRAM2210-2240.

DRAM2740  Theatrecraft I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Successful completion of DRAM1010 & DRAM1020.
Concurrent assumed knowledge: 1 drawn from DRAM2210-2240.

DRAM2750  Theatrecraft II
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Successful completion of DRAM2740. Concurrent assumed knowledge: 1 course drawn from DRAM2210-2240.

DRAM2780  Drama & Education I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Successful completion of DRAM1010 & DRAM1020.
Concurrent assumed knowledge: 1 drawn from DRAM2210-2240.

DRAM2790  Drama & Education II
Units: 10
Locations: Callaghan
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 School system.
Assumed Knowledge: Successful completion of DRAM2780. Concurrent assumed knowledge: 1 subject drawn from DRAM2210-2240.

DRAM2900  Performance Exercise I
Units: 10
Locations: Callaghan
This course 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 course’s delivery and students will be invited to participate by audition and interview. Usually the course 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 course is only offered internally.
Assumed Knowledge: DRAM1010 and DRAM1020

DRAM3310  Performance & Contemporary Culture I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 40 units of Drama at 2000 level. Concurrent assumed knowledge: 1 subject drawn from DRAM3720, DRAM3800, DRAM3820 and DRAM3850 (applied subjects).

DRAM3320  Performance & Contemporary Culture II
Units: 10
Locations: Callaghan
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 DRAM3310(Performance and Contemporary Culture I).
Assumed Knowledge: 40 units of Drama at 2000 level. Concurrent assumed knowledge: 1 course drawn from DRAM3730, DRAM3810 and DRAM3860 (applied courses).

DRAM3720  Community Drama I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 40 units of Drama at 2000 level. Concurrent assumed knowledge: DRAM3310.

DRAM3730  Community Drama II
Units: 10
Locations: Callaghan
Extends upon the work of DRAM3720 (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.
Assumed Knowledge: Successful completion of DRAM3720 (Community Drama I). Concurrent assumed knowledge: DRAM3320.

DRAM3800  Director's Perspective I
Units: 10
Locations: Callaghan
Develops skills acquired in DRAM3800 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.
Assumed Knowledge: DRAM3750 (Theatrecraft II). Concurrent assumed knowledge: DRAM3310.

DRAM3810  Director's Perspective II
Units: 10
Locations: Callaghan
Develops skills acquired in DRAM3800 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.
Assumed Knowledge: DRAM3800. Concurrent assumed knowledge: DRAM3320

DRAM3820  The Dramatic Script I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 40 units in Drama at 2000 level. Concurrent assumed knowledge: DRAM3310

DRAM3830  Advanced Studies in Performance 1
Units: 20
Locations: Callaghan
Provides advanced studies into the nature and composition of performance. The content reflects the current research interests of the course convenors.
Assumed Knowledge: 40 units of Drama at a 2000 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. DRAM3310 and DRAM3320.

DRAM3840  Advanced Studies in Performance 2
Units: 20
Locations: Callaghan
Provides further advanced studies into the nature and composition of performance. The content reflects the current research interests of the course convenors.
Assumed Knowledge: 40 units of Drama at a 2000 level. It is also anticipated that students would be concurrently enrolled in those courses at a 300 level required for the Major in Drama viz. DRAM3310 and DRAM3320

DRAM3850  Acting III
Units: 10
Locations: Callaghan
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 major mode of delivery.
Assumed Knowledge: Successful completion of DRAM2710.
DRAM3900  Performance Exercise 2
Units: 10
Locations: Callaghan
This course 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 course’s delivery and students will be invited to participate by audition and interview. Usually the course 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 the preceding semester. This course is only offered internally and is equivalent to a 3000-level applied Drama course.
Assumed Knowledge: To have completed the requirements for admission to the Bachelor of Arts (Pass).

DRAM4050  Drama Honours I Research Seminar
Units: 20
Locations: Callaghan
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. DRAM 4050 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.
Assumed Knowledge: To have completed the requirements for admission to the Bachelor of Arts (Pass).

DRAM4060  Drama Honours II Special Study
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: To have completed the requirements for admission to the Bachelor of Arts (Pass).

DRAM4070  Drama Honours III Research Thesis/Project I
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: To have completed the requirements for admission to the Bachelor of Arts (Pass).

DRAM4080  Drama Honours IV Research Thesis/Project II
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: To have completed the requirements for admission to the Bachelor of Arts (Pass).

EBUS1010  Introduction to eBusiness
Units: 10
Locations: Callaghan
Provides a foundation for understanding how organizations function, cooperate, and compete in an increasingly connected world. Introduces some of the types of e-business systems that are used to support e-business organizations, and discusses the ways they are used. Provides practical experience in using a selection of applications that support e-business and personal productivity.
Assumed Knowledge: Nil

EBUS2010  eCommerce
Units: 10
Locations: Central Coast
Examines key trends and developments emerging in the rapidly expanding field of information technology, and the opportunities these trends offer to enhance and develop inter-business interactions, 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: EBUS1010 or INFO1010

EBUS2020  Business Systems
Units: 10
Locations: Callaghan
Investigates the role of information and use of technology within an organisation from a management perspective. Topics include the links between information, technology and organisational structure; strategic planning, approval and evaluation of IT initiatives; and on-going management of the IT function.
Assumed Knowledge: Nil

EBUS3010  Strategic Business Systems
Units: 10
Locations: Callaghan
Central Coast
Examines key trends and developments emerging in the rapidly expanding field of information technology, and the opportunities these trends offer to enhance and develop inter-business interactions, 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: EBUS1010 or INFO1010

EBUS3020  Knowledge Management
Units: 10
Locations: Callaghan
Central Coast
Knowledge management is a relatively new field of study, encompassing organisational behaviour, human resource management and information systems. This subject assesses how knowledge management has become a focus for many modern organisations, the structural and cultural elements that support knowledge-intensive organisations, examines the operations of ‘communities of practice’, looks at the role of information technology (in particular groupware), explores the human resource management implications of implementing knowledge management in an organisation, gives an overview of the processes of accounting for knowledge management.
Assumed Knowledge: EBUS1010 or INFO1010

ECON1100  Microeconomics I
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: There is no assumed knowledge requirement.
ECON3360  
**Australian Business History**  
*Units*: 10  
*Locations*: Callaghan  

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. Not to be counted with ECON2360.  

Assumed Knowledge: 30 units in any 2000 level courses.  

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ECON3365  
**Business Forecasting**  
*Units*: 10  
*Locations*: Callaghan  

Forecasting is an integral part of business planning. This course is designed to help students with a practical knowledge of the major quantitative techniques used in business forecasting, including extrapolation (such as moving averages, linear regression and exponential smoothing) and econometric methods, using regression techniques to estimate the effects of key variables. Students will learn how to develop forecasting models, to estimate them using best-practice software, and to appraise their forecast accuracy. The course will benefit marketing, finance and economics students.  

Assumed Knowledge: Introductory statistics and quantitative methods covered by STAT1050 or ECON1130.  

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ECON3400  
**Econometric Modelling and Forecasting**  
*Units*: 10  
*Locations*: Callaghan  

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: K-variable linear regression model, testing linear restrictions and structural stability, generalised least squares, heteroskedasticity, serial correlation, large sample theory, instrumental variables, model methodology and forecasting, systems equations estimation and issues.  

Assumed Knowledge: ECON2450.  

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ECON3470  
**International Business Environment**  
*Units*: 10  
*Locations*: Callaghan  

This course begins with a brief overview of the contemporary global economy. It 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 current developments in the global economy, focusing with a brief review of some of the implications on Australian business. Not to be taken with ECON2470.  

Assumed Knowledge: Nil.  

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ECON3600  
**Microeconomics III**  
*Units*: 10  
*Locations*: Callaghan  

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.  

Assumed Knowledge: ECON2500.  

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ECON3610  
**Macroeconomics III**  
*Units*: 10  
*Locations*: Callaghan  

Extends and develops topics in theoretical and applied Macroeconomic theory with a focus on the open economy through the interaction of trade and capital flows with the operation of the domestic economy. The dynamics of inflation and unemployment are explored, along with the theory and application of monetary and fiscal policy. The course concludes with a comprehensive analysis of Australia's recent macroeconomic policy.  

Assumed Knowledge: ECON2510.  

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ECON4100  
**Economics IVA**  
*Units*: 20  
*Locations*: Callaghan  

Students take five semester length courses from those currently offered at 4000 level by the School of Policy, although one 3000 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 4000 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 Economics and a special topic which varies from year to year. Subject to approval, a one semester course from other schools may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON2450.  

Assumed Knowledge: Appropriate grade point average in Bachelor pass degree.  

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ECON4110  
**Economics IVB**  
*Units*: 20  
*Locations*: Callaghan  

Students take five semester length courses from those currently offered at 4000 level by the School of Policy, although one 3000 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 4000 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 Economics and a special topic which varies from year to year. Subject to approval, a one semester course from other schools may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON2450.  

Assumed Knowledge: Appropriate grade point average in Bachelor pass degree.  

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ECON4120  
**Economics IVC**  
*Units*: 20  
*Locations*: Callaghan  

Students take five semester length courses from those currently offered at 4000 level by the School of Policy, although one 3000 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 4000 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 Economics and a special topic which varies from year to year. Subject to approval, a one semester course from other schools may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON2450.  

Assumed Knowledge: Appropriate grade point average in Bachelor pass degree.  

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ECON4130  
**Economics IVD**  
*Units*: 20  
*Locations*: Callaghan  

Students take five semester length courses from those currently offered at 4000 level by the School of Policy, although one 3000 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 4000 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 Economics and a special topic which varies from year to year. Subject to approval, a one semester course from other schools may also be taken. Students are required to have a minimum quantitative standard equivalent to ECON2450.  

Assumed Knowledge: Appropriate grade point average in Bachelor pass degree.  

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ECON4640  
**Economic Planning and Project Evaluation**  
*Units*: 10  
*Locations*: Callaghan  

Introduces students to the need for, and the potential of, economic planning and project appraisal in centrally planned economies and low-income countries. An important aspect of this objective is the actual use of a powerful decision-making tool: the technique of project and policy analysis. The course aims to provide students with an understanding of the various facets and tools of economic planning and project appraisal including data sources, human resource development considerations, investment criteria and financial and economic analysis of projects. These concepts and tools in combination constitute the technique of project and policy analysis.  

Assumed Knowledge: Background in economics.  

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ECON4650  
**Applied Policy Analysis**  
*Units*: 10  
*Locations*: Callaghan  

Aims to introduce students to quantitative techniques and methods that are useful for analysing policy options.  

Assumed Knowledge: Background in economics.  

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ECON4660  
**Research Essay**  
*Units*: 20  
*Locations*: Callaghan  

Provides students in the Masters in Trade and Development with the opportunity to undertake a detailed research project in the area of a public policy issue pertinent to a developing economy which interacts in the global economy. The project will allow the student to thoroughly investigate an issue and will develop research and reporting skills.  

Assumed Knowledge: Admission to the program.
ECOS1920 Economics for Business
Units: 10
Locations: Central Coast
Draws upon the basic economic principles that underpin society and the business environment with a view to providing the economic analytical skills necessary for a critical understanding of enterprises in a global environment. The content is contemporary in its perspective, relates to public and private enterprises, and takes into account the electronic context. In addition, it presents from an economic viewpoint the conceptual underpinnings necessary for practical policy development and implementation.
Assumed Knowledge: None

EDDE407 Teaching Practices in K-6 Maths
Units: 5
Locations: Calaghan
Introduces the major concepts for needs analysis, unit planning, lesson planning, teaching, assessment and evaluation in the four strands of primary mathematics: Space, Measurement, Number and Working Mathematically.
Contact hours: 2 hours per week
Assumed Knowledge: Bachelor of Arts or equivalent

EDDE427 Teaching Practices Science
Units: 10
Locations: Calaghan
Focuses on teaching strategies which can be used in science classrooms in the high school. Both teacher-centered and student-centered approaches will be examined and applications investigated.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE478

EDDE429 Teaching Practices-Technology Education
Units: 10
Locations: Calaghan
Provides background knowledge in using a range of teaching strategies appropriate for technology and applied studies classes in years 7-12. An examination of TAS syllabus documents will also assist students’ knowledge of outcomes, approaches to assessment and planning for learning.
Assumed Knowledge: Discipline knowledge in a TAS area

EDDE482 Primary Teaching Practices
Units: 5
Locations: Calaghan
Provides students with the understanding, skills, processes and attributes necessary to teach successfully in a primary school.
Contact hours: 2 hours per week
Assumed Knowledge: EDDE481

EDMG6680 Supervision & Mentoring of Teachers
Units: 10
Locations: Calaghan
While many school teachers engage in supervision or mentoring of student teachers and other teachers, few have any training in these practices. This course will provide students with the opportunity to examine their own supervisory and/or mentoring practice on the basis of a strong theoretical understanding of issues involved in supervision and mentoring. This course will use flexible delivery in the form of IT and paper-based distance learning and by offering a range of assessment options.
Assumed Knowledge: Knowledge of teachers’ work.

EDDS333 Teaching & Learning in Social Science 3
Units: 5
Locations: Calaghan
Third 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.
Contact hours: 2 hours per week
Assumed Knowledge: EDSS221, EDSS223

EDST1000 Learners and Learning
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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.

EDST1200 Social and Environmental Studies Curriculum
Units: 10
Locations: Central Coast
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: N/A

EDST1400 Foundations in Early Childhood Education
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: NIL

EDST1500 Music, art and humanity
Units: 10
Locations: Central Coast
Focuses on the development of critical 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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
Introduces 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
Units: 10
Locations: Central Coast
Develops knowledge and understanding of the behavioural needs of students, providing a comprehensive introduction to the management of behaviour in classroom and the design of specific intervention programs. It focuses upon identification and assessment of student needs, with a strong practical emphasis on program development and intervention, consultancy and collaborative skills.
This course is mandatory for all primary and secondary teacher education students.
Assumed Knowledge: NIL

EDST2040 Planning for Teaching
Units: 10
Locations: Central Coast
Introduces the major concepts for needs analysis, unit planning, lesson planning, teaching, assessment and evaluation in the four strands of primary mathematics: Space, Measurement, Number and Working Mathematically.
Contact hours: 2 hours per week
Assumed Knowledge: Bachelor of Arts or equivalent

EDST2040 Planning for Teaching
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: NIL

EDST1500 Music, art and humanity
Units: 10
Locations: Central Coast
Focuses on the development of critical 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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
Introduces 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
Units: 10
Locations: Central Coast
Develops knowledge and understanding of the behavioural needs of students, providing a comprehensive introduction to the management of behaviour in classroom and the design of specific intervention programs. It focuses upon identification and assessment of student needs, with a strong practical emphasis on program development and intervention, consultancy and collaborative skills.
This course is mandatory for all primary and secondary teacher education students.
Assumed Knowledge: NIL

EDST2040 Planning for Teaching
Units: 10
Locations: Central Coast
Introduces the major concepts for needs analysis, unit planning, lesson planning, teaching, assessment and evaluation in the four strands of primary mathematics: Space, Measurement, Number and Working Mathematically.
Contact hours: 2 hours per week
Assumed Knowledge: Bachelor of Arts or equivalent
EDST2050  Field Experience 1  
Units: 10  
Locations: Central Coast  
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 complementary. Students will link theory to practice by observing a variety of children's learning experiences to associated lectures.  
Assumed Knowledge: Foundations for Teaching

EDST2060  Field Experience 2  
Units: 10  
Locations: Central Coast  
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.  
Assumed Knowledge: Field Experience 1 or equivalent.

EDST2110  Social & Cultural Contexts in Education  
Units: 10  
Locations: Central Coast  
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  English K-6 Curriculum  
Units: 10  
Locations: Central Coast  
This course prepares students to teach the English Key Learning Area in K-6 contexts. Students will examine contemporary views of language and literacy learning and explore how these are constructed in English K-6 syllabus documents and associated curriculum support documents.  
Assumed Knowledge: EDST1000 Learners & Learning

EDST2210  Science and Technology in Classrooms  
Units: 10  
Locations: Central Coast  
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 implement science and technology activities in classrooms.  
Assumed Knowledge: Nil

EDST2300  Secondary Teaching Method 1  
Units: 10  
Locations: Central Coast  
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

EDST2400  Approaches to Early Childhood Curriculum  
Units: 10  
Locations: Central Coast  
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 emergent literacy and numeracy in 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  
Units: 10  
Locations: Central Coast  
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  
Units: 10  
Locations: Central Coast  
Builds on 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.  
This information will be used as a basis for planning.  
Assumed Knowledge: EDST1510 Development in Context 1

EDST3020  Middle Years Curriculum Planning  
Units: 10  
Locations: Central Coast  
Provides knowledge and skills to plan and implement teaching/learning and organisational strategies in schools and classrooms that will address the learning needs of middle years students. Specifically, it addresses cooperative and collaborative learning, negotiation of curriculum and student empowerment.  
Assumed Knowledge: 20 units in teaching and learning courses of the primary or secondary degree.

EDST3030  Catering for Children with Special Educational Needs  
Units: 10  
Locations: Central Coast  
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

EDST3040  Contexts of Teaching  
Units: 10  
Locations: Central Coast  
Extends students’ understandings of the contexts in which teaching and learning occurs. It develops students’ critical understandings of the ways in which social and cultural contexts shape the structures and features of education and schooling.  
Assumed Knowledge: EDST2200 Planning for Teaching

EDST3050  Field Experience 3 Inclusive Settings  
Units: 10  
Locations: Central Coast  
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. Students will develop more advanced skills in lesson reflection.  
This course is designed to allow students to complete a field experience 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 a regular class setting.  
Assumed Knowledge: Field Experience 1 or equivalent

EDST3060  Field Experience 3 Inclusive Settings  
Units: 10  
Locations: Central Coast  
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. This course is designed to allow students to complete a field experience 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 a regular class setting.  
Assumed Knowledge: Field Experience 1 or equivalent
EDST3070  Early Childhood Literacies  
Units: 10  
Locations: Central Coast  
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 fulfill 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  
Units: 10  
Locations: Central Coast  
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  
Units: 10  
Locations: Central Coast  
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

EDST3220  Health and Physical Education  
Units: 10  
Locations: Central Coast  
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  
Units: 10  
Locations: Central Coast  
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, PD/H/PE and Science and Technology K-6 syllabuses.  
Assumed Knowledge: NIL

EDST3300  Secondary Teaching Method 2  
Units: 10  
Locations: Central Coast  
Extends students’ knowledge and skills in their first teaching subject. It focuses on developing students knowledge and skills in advanced strategies appropriate for junior and senior secondary classrooms in the first teaching subject. It examines all NSW secondary syllabuses in the first teaching subject in order to develop students skills in planning and implementing teaching programs developed from syllabus outcomes and content.  
Assumed Knowledge: Discipline Major 2000 level Issues in Adolescent Development Foundations for Teaching

EDST3400  World and work: The whole teacher  
Units: 10  
Locations: Central Coast  
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  
Units: 10  
Locations: Central Coast  
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  
Units: 10  
Locations: Callaghan  
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

EDST4001  Managing Early Childhood Services  
Units: 10  
Locations: Central Coast  
The course studies the role of the early childhood professional in the management and delivery of services to children and families.  
Assumed Knowledge: NIL

EDST4010  Teachers, Research and Practice  
Units: 10  
Locations: Central Coast  
Addresses issues of reflective teacher practice and the role of teacher as researcher in a changing workplace.  
Contact hours:  
Assumed Knowledge: EDTE 112 plus two teaching and learning subjects at 200 or 300 level as assumed or concurrent knowledge.

EDST4020  Secondary Method 4  
Units: 10  
Locations: Central Coast  
Develops students’ knowledge and skills in the teaching of their second teaching subject. It extends students’ knowledge and skills in reading and interpreting syllabus and curriculum documents in order to plan and implement appropriate teaching and learning programs in their second teaching subject.  
Assumed Knowledge: All of: EDST3300; EDST3040 or EDUC2039; and 30 units of courses supporting the second teaching method subject.

EDST4020  Secondary Method 4  
Units: 10  
Locations: Central Coast  
Develops students’ knowledge and skills in the teaching of their second teaching subject. It extends students’ knowledge and skills in reading and interpreting syllabus and curriculum documents in order to plan and implement appropriate teaching and learning programs in their second teaching subject.  
Assumed Knowledge: All of: EDST3300; EDST3040 or EDUC2039; and 30 units of courses supporting the second teaching method subject.

EDST4030  Special Education for Early Childhood  
Units: 10  
Locations: Central Coast  
Develops understanding and skills for working in early childhood settings (0-8 years) 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 course containing special education content.  
Assumed Knowledge: NA

EDST4050  Field Experience 4: Internship  
Units: 20  
Locations: Central Coast  
Field Experience 4: Internship is the final in a series of field experiences that allow the student to develop action research as a focus for planning through stages that are sequential, cumulative and complementary. Students are able to develop competencies in planning and teaching and managing for the total class across an extended period. During Field Experience 4 students take on the roles and responsibilities of the teacher both in the classroom and the wider centre/school system and the community.  
Assumed Knowledge: Students must have successfully completed 270 credit points of Bachelor of Teaching/relevant discipline degree

EDST4060  Special Education Internship  
Units: 20  
Locations: Central Coast  
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: EDST3060: Field Experience 3  
In addition, students undertaking the Internship must have successfully completed 270 credit points of Bachelor of Teaching/relevant discipline degree.
EDST4063 Planning for Teaching in Special Education

**Units:** 10
**Locations:** Central Coast

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 seeking an additional accreditation as a special education teacher are required to complete within their double degree program.

**Assumed Knowledge:** Nil

EDST4064 Supporting Literacy, Numeracy Communication Skills

**Units:** 10
**Locations:** Central Coast

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 K-12. The subject forms part of a group of subjects that seeking an additional accreditation as a special education teacher are required to complete within their double degree program.

**Assumed Knowledge:** Nil

EDST4140 Aboriginal Education

**Units:** 5
**Locations:** Central Coast

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

EDST4200 Creative Arts K-6 Curriculum

**Units:** 10
**Locations:** Central Coast

This course is designed to provide students with the knowledge, understandings and skills necessary to teach the four strands of Creative Arts in the K-6 context.

**Assumed Knowledge:** EDST1000 Learners and Learning

EDST1010 Foundations for Teaching

EDST2040 Planning for Teaching

EDST3040 Contexts of Teaching

EDST4300 Secondary Teaching Method 3

**Units:** 10
**Locations:** Central Coast

Consolidates students’ previously acquired understandings of the principles and practices of teaching and learning in their first teaching subject. It focuses on extending students’ knowledge and skills in advanced strategies appropriate for senior secondary classrooms and the implementation of mandatory requirements in the context of the high stakes HSC examinations.

**Assumed Knowledge:** Secondary Teaching Method 1

EDST4400 Literacies across the Early Childhood Curriculum

**Units:** 5
**Locations:** Central Coast

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.

EDST6026 Minor Thesis A

**Units:** 10
**Locations:** Central Coast

Provides the opportunity to undertake research in an area of interest to the student. The research may take the form of an empirical study, a review of the literature or another research format in discussion with the supervisor. Taken in conjunction with EDST6027 Minor Thesis B.

**Assumed Knowledge:** EDUC6048 Research Methodology (available via DL)

EDST6027 Minor Thesis B

**Units:** 10
**Locations:** Central Coast

Provides an opportunity to undertake research in an area of interest to the student. The research may take the format of an empirical study, a review of literature or another research format in discussion with the supervisor. Taken in conjunction with EDST6026 Minor Thesis A.

**Assumed Knowledge:** EDUC6048 Research Methodology (available by distance learning)

EDST6028 A Directed Study

**Units:** 10
**Locations:** Central Coast

This subject may be taken by a student who has completed at least four semester units and who is interested in developing a specialised topic with the close direction of a staff member. The consent of both the staff member to be involved and the Program Coordinator is required. Intending students must consult with the Program Coordinator before enrolling. A detailed proposal must be supplied to the Program Coordinator on the Directed Study proforma by the end of the second week of the semester. The proposal must be written in conjunction with the staff member concerned.

**Assumed Knowledge:** Nil

EDST6051 Industry/Work Based Project

**Units:** 10
**Locations:** Central Coast

Conducted in a work-place, or industry educational setting, the course will provide students with the opportunity to design, conduct and analyse research focussing on an issue of concern to them in an in-depth manner.

**Assumed Knowledge:** Nil

EDST6082 Policy and Administration in Special Education

**Units:** 10
**Locations:** Central Coast

Examines policy and administration in special education including the development and implementation of policy and procedures, leadership skills, resource management, curriculum development, and program and financial management. Interpersonal skills and the ability to negotiate positive outcomes both for students with special needs and teachers will be examined in the context of special educators as potential change agents in the school.

**Assumed Knowledge:** Nil

EDST6085 Education of Students with Learning Difficulties

**Units:** 10
**Locations:** Central Coast

Focuses on learning difficulties in the basic academic areas of reading, spelling, mathematics and study skills. The nature of skills deficits in each area will be discussed as well as the most common forms of intervention and methods of assessment. The course is both skills and research oriented with emphasis on ways of meeting individual student needs in regular class context.

**Assumed Knowledge:** Nil

EDST6088 Teaching Methods & Techniques in Special Education

**Units:** 10
**Locations:** Central Coast

Provides an introduction to the range of instructional strategies available to educators working with students with special needs. Issues considered include the translation of research into practice, the relationship of emerging approaches to integration and inclusion, individualised, small and large group instruction, and the contribution of efficacy studies to the field.

**Assumed Knowledge:** Nil additional

EDST6090 Current Issues in Special Education

**Units:** 10
**Locations:** Central Coast

Introduces some of the issues which have been the topic of discussion, debate and research in Special Education in recent years. Among issues dealt with will be policy development, normalization, genetic engineering, euthanasia, staff training, psychoparmacology, abuse, aging and training issues. Students will be provided with weekly readings and will be expected to prepare at least one paper which reflects an in-depth study of one of the topics being treated.

**Assumed Knowledge:** Nil

EDST6091 Special Education Practicum

**Units:** 10
**Locations:** Central Coast

Conducted in a special education setting in which the student designs, implements and monitors several educational programs for children, adolescents or adults with special needs.

**Assumed Knowledge:** Nil
EDS6092  Special Education Practicum 2
Units: 10
Locations: Central Coast
Conducted in a special education setting in which the student designs, implements, and monitors several educational programs for children, adolescents or adults with special needs.
Assumed Knowledge: Nil
EDUC1001  Design & Technology Teaching Studies 1A
Units: 10
Locations: Callaghan
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 lecturers, 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
Units: 10
Locations: Callaghan
Explores graphical aspects of the School Certificate Technical Drawing Syllabus, the Graphics Technology 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.
Assumed Knowledge: Nil
EDUC1003  Learners and the Learning Process 1
Units: 10
Locations: Callaghan
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 challenge them to develop both reflective and professional capabilities.
Assumed Knowledge: Nil pre- or co-requisites
EDUC1004  Contexts of Teaching 1
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Introduces the profession of teaching. Students are expected to observe practising teachers and to act as novice teachers themselves. A major focus will be learners 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 computer skills in relation to teaching and learning.
Assumed Knowledge: nil
EDUC1006  Professional Preparation 1B
Units: 10
Locations: Callaghan
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 classrooms, create supportive learning environments, and continually use self-reflection as a means of improving their knowledge and skills.
Assumed Knowledge: Nil
EDUC1011  Foundation Discipline Studies 1
Units: 10
Locations: Callaghan
Fairfield High School
This course will be the first in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach students in Years 7-12.
Assumed Knowledge: Nil
EDUC1012  Foundation Discipline Studies 2
Units: 10
Locations: Fairfield High School
This course will be the second in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach students in Years 7-12.
Assumed Knowledge: Nil
EDUC1013  Foundation Discipline Studies 3
Units: 10
Locations: Fairfield High School
This course will be the third in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach students in Years 7-12.
Assumed Knowledge: EDUC1011 Foundation Discipline Studies 1
EDUC1014  Physical Education Studies 1
Units: 10
Locations: Callaghan
Examines the interaction between the biological processes of growth and development and environmental factors in shaping fundamental movement patterns in childhood. Students will be introduced to the fundamental movement skills underpinning efficient motor skill execution. Also, students will examine techniques for exploring movement in primary school contexts and be introduced to basic dance elements and styles.
Assumed Knowledge: Nil
EDUC1015  Foundations of Health and Physical Education
Units: 10
Locations: Callaghan
Introduces students to the historical and philosophical basis of health, physical education and sport in our society. Also students will better understand the inter-relationship between health related behaviour, physical activity and population health, as well as the social and economic importance of physical activity for Australian society.
Assumed Knowledge: Nil
EDUC1016  Physical Education Studies 2
Units: 10
Locations: Callaghan
Introduces students to a range of physical activities that may include aquatics, game applications and the skills and strategies related to traditional invasion and striking games.
Assumed Knowledge: Nil
EDUC1021  School Performance Studies 1
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 1
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 implementa- tion, and current issues in early childhood education. It includes a critical analysis and appraisal of curriculum and issues for infants, toddlers, and preschool children.
Assumed Knowledge: EDUC2001
EDUC2003 Teaching and Learning in Drama 1
Units: 10
Locations: Callaghan
Central Coast
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
Locations: Callaghan

EDUC2004 Teaching and Learning in Drama 2
Units: 10
Locations: Callaghan
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: EDUC221

EDUC2005 Teaching & Learning in Design & Technology 1
Units: 10
Locations: Callaghan
This course will develop students' understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the D&T syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: EDTE111
Locations: Callaghan

EDUC2006 Teaching & Learning in Design & Technology 2
Units: 10
Locations: Callaghan
Provides students with opportunities to examine appropriate teaching strategies for the teaching of Design and Technology in the secondary school. It will also raise relevant issues related to programing and assessment and make links to other TAS teaching areas.
Contact hours: 3 hours per week
Assumed Knowledge: EDTE221

EDUC2008 Design & Technology Teaching Studies 2
Units: 10
Locations: Callaghan
This course introduces students to the fundamentals of designing a design brief and implementing and exploring design solutions within a secondary school context. Through analysis of the 7-10 Design & Technology syllabuses 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

EDUC2012 English for Early Childhood Education
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING1110

EDUC2013 Mathematics for Early Childhood Education
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This course will develop students' understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the English syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: Nil

EDUC2015 Teaching and Learning in English 2
Units: 10
Locations: Callaghan
Provides 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

EDUC2017 Teaching & Learning in Language other than English
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This course will develop students' understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the Mathematics syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: EDTE111,EDTE131,EDTE132 or equivalent subjects

EDUC2020 Teaching and Learning Mathematics 2
Units: 10
Locations: Callaghan
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: EDM221 Teaching and Learning in Mathematics 1

EDUC2022 Teaching & Learning in Music 1
Units: 10
Locations: Callaghan
This course will develop students' understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the Music syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: EDTE111,EDTE131 and EDTE132

EDUC2023 Teaching Learning in Music 2
Units: 10
Locations: Callaghan
Introduces students to a range of basic teaching and management strategies appropriate for working in junior secondary mandatory music settings.
Contact hours: 3 hours per week
Assumed Knowledge: EDM221

EDUC2025 Teaching & Learning in Health & Physical Edu 1
Units: 10
Locations: Callaghan
This course will develop students’ understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the PE/HEP (and English, History, D&T, Music, Visual Arts, Mathematics, Science) syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: Year one education subjects or equivalent

Assumed Knowledge: Year one education subjects or equivalent

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EDUC2026 Teaching & Learning Health & Physical Education 2
Units: 10
Locations: Callaghan
Provides the opportunity for students to continue developing a professional knowledge base on the content and methodology required for teaching PD/H/PE in secondary schools.
Contact hours: 3 hours per week
Assumed Knowledge: Year one education subjects, EDPH221 or equivalent subjects.

EDUC2030 Teaching and Learning in English K-6
Units: 10
Locations: Callaghan
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: LING1110

EDUC2031 Teaching and Learning in Mathematics K-6
Units: 10
Locations: Callaghan
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

EDUC2033 Teaching & Learning in Science 1
Units: 10
Locations: Callaghan
This course will develop students understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the Science syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson and unit plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: Nil

EDUC2034 Teaching and Learning in Science 2
Units: 10
Locations: Callaghan
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 syllabuses will be examined.
Contact hours: 3 hours per week
Assumed Knowledge: EDSC221 Teaching and Learning in Science 1

EDUC2036 Teaching & Learning in Social Sciences 1
Units: 10
Locations: Callaghan
This course will develop students understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the History syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson and unit plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: Nil

EDUC2037 Teaching & Learning in Social Sciences 2
Units: 10
Locations: Callaghan
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

EDUC2039 Professional Experience 1
Units: 10
Locations: Callaghan
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: EDTE132

EDUC2044 Teaching and Learning in Visual Arts 1
Units: 10
Locations: Callaghan
This course will develop students understanding of class behaviour, class management, and ways of maintaining a productive classroom environment at the secondary school level. Students will also be introduced to the Visual Arts syllabuses, with a special focus on syllabuses for Stages 4 and 5. The sequence of syllabuses from primary school (Stages 1, 2, and 3) to junior secondary school (Stages 4 and 5) will be examined. Students will consider the rationale for the syllabus, develop lesson and unit plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather suitable resources. It is anticipated that during the course students will spend time in schools working with teachers in their specialist areas.
Assumed Knowledge: Year one education subjects

EDUC2045 Teaching & Learning Visual Arts 2
Units: 10
Locations: Callaghan
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

EDUC2047 Professional Experience 1
Units: 10
Locations: Callaghan
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)

EDUC2048 Professional Preparation and Experience 2A
Units: 10
Locations: Callaghan
This course will develop students? understanding of a variety of teaching strategies suitable for use at the secondary school level. Students will also be introduced to English syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather resources that will help them to teach English at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005, EDUC1006, EDUC2014

EDUC2050 Teaching and Learning in English 2
Units: 10
Locations: Callaghan
This course will develop students? pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to English syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of classroom dynamics introduced in this course), and gather resources that will help them to teach English at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005, EDUC1006, EDUC2014
EDUC2051 Teach & Learn in PDHPE 2
Units: 10  
Locations: Callaghan  
This course will develop students' pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students will be introduced to PDHPE syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach PDHPE at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005, (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2025 (Teaching and Learning in PDHPE 1)

EDUC2052 Teaching and Learning in Science 2
Units: 10  
Locations: Callaghan  
This course will develop students' pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to Science syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach Science at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2033 (Teaching and Learning in Science 1)

EDUC2053 Teaching and Learning in Design and Tech 2
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to Design and Technology syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach Design and Technology at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2005 (Teaching and Learning in Design and Technology 1)

EDUC2054 Foundation Discipline Studies 4
Units: 10  
Locations: Fairfield High School  
This course will be the fourth in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach students in Years 7-12.
Assumed Knowledge: Nil

EDUC2055 Foundation Discipline Studies 5
Units: 10  
Locations: Fairfield High School  
This course will be the fifth in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach in Years 7-12.
Assumed Knowledge: Nil

EDUC2056 Foundation Discipline Studies 6
Units: 10  
Locations: Fairfield High School  
This course will be the sixth in a series of six, designed to provide students with specialist knowledge of their teaching discipline. The course will assist students to fully understand the content in their chosen discipline necessary to teach in Years 7-12.
Assumed Knowledge: Nil

EDUC2057 Physical Education Studies 3
Units: 10  
Locations: Callaghan  
Students will apply movement principles to a range of physical activities that may include gymnastics, racquet sports and outdoor educational pursuits.
Assumed Knowledge: HUBS1503 and HUBS1504

EDUC2058 Physical Education Studies 4
Units: 10  
Locations: Callaghan  
Introduces students to the motor learning and psychological factors that may influence human performance and behaviour in sport settings.
Assumed Knowledge: Nil

EDUC2060 Teaching and Learning in Social Sciences 2
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to HSIE syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach HSIE at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2036 (Teaching and Learning in Social Sciences 1)

EDUC2071 Teaching and Learning in Visual Arts 2
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to Visual Arts syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach Visual Arts at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2044 (Teaching and Learning in Visual Arts 1)

EDUC2080 Teaching and Learning in Music 2
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to Music syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach Music at the secondary school level. Attention will be focused on syllabuses for the junior years of secondary school.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2022 (Teaching and Learning in Music 1)

EDUC2090 Teaching and Learning in Maths 2
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of a variety of teaching strategies suitable for use at the secondary school level. Students also will be introduced to Mathematics syllabuses designed for the secondary school level. They will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of a variety of teaching strategies introduced in this course), and gather resources that will help them to teach Mathematics at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2019 (Teaching and Learning in Mathematics 1)

EDUC2100 EC Professional Preparation 2
Units: 10  
Locations: Callaghan  
Focuses on particular professional preparation needs that apply to early childhood teachers in relation to issues pertaining to programming, planning and assessment and guiding positive learning behaviour.
Assumed Knowledge: EDUC1005, EDUC1006, EDUC2001, EDUC2002

EDUC3001 Developmental Foundations of Early Childhood 2
Units: 10  
Locations: Callaghan  
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.
Assumed Knowledge: EDUC2001
EDUC3002 Children's Services and Social Policy
Units: 10
Locations: Callaghan
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: EDLA222

EDUC3003 Teaching and Learning in Drama 3A
Units: 10
Locations: Central Coast
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: EDDR222 or equivalent course

EDUC3005 Technology Teaching Studies Studies 3
Units: 10
Locations: Callaghan
Wollongong
Basketball Park High School
Explores the nature of various NSW technology curriculum and the application of electronics control content in that curriculum. The focus of the subject will relate this content to specific classroom applications and the relationships between the curriculums of Technology, Design & Technology (Stage 5) and Industrial Technology (Electronics, stage 5).
Assumed Knowledge: This course allows students to draw on and transfer, the knowledge and skills gained through other industry experiences. Applicants may apply for partial credit (up to 30%) in practical electronics.

EDUC3008 Early Childhood Language Education
Units: 10
Locations: Callaghan
Central Coast
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 Environmnt (Part A)
Units: 10
Locations: Callaghan
This course is Part A of a two-term sequence. Part B must also be completed to meet the requirements of the sequence.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC3010B EC Maths, Sci & Human Soc & it's Environmnt (Part B)
Units: 10
Locations: Callaghan
The course is Part B of a two-term sequence. Part A must also be completed to meet the requirements of the sequence.
Contact hours: 3 hours per week
Assumed Knowledge: Nil

EDUC3011 Teaching and Learning in English 3A
Units: 10
Locations: Callaghan
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

EDUC3013 Teaching & Learning in LOTE 3A
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 to the NSW 7-12 syllabuses 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: EDMA222 Teaching and Learning in Mathematics 2 or equivalent subject.

EDUC3015 Teaching & Learning in Music 3
Units: 10
Locations: Callaghan
Extends students' knowledge of management and teaching strategies available for working in 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: EDMU222

EDUC3016 Teaching & Learning Health & Physical Education 3
Units: 10
Locations: Callaghan
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

EDUC3020 Teaching and Learning in Science 3A
Units: 10
Locations: Callaghan
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 syllabuses will be examined. The subject will also focus on programming strategies and how these may be implemented in the science syllabuses.
Contact hours: 3 hours per week
Assumed Knowledge: EDSC222 Teaching and Learning in Science 2

EDUC3021 Practicum in Inclusive Settings A
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Program of approximately 20 days duration or equivalent undertaken in a school or relevant teaching placement.
Contact hours: 20 days field experience
Assumed Knowledge: EDSY201 Professional Experience 1 and relevant specialist teaching and learning subjects.

EDUC3024 Practicum 1
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This 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.

EDUC3026 Special Education
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Provides an orientation to Australian educational contexts, particularly for international students. It includes 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
Units: 10
Locations: Callaghan
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

EDUC3031 Teaching and Learning in TAS 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will examine Technology and Applied Sciences (TAS) syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach TAS at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2005 (Teaching and Learning in D&T 1), EDUC2053 (T&L in D&T 2)

EDUC3032 Physical Education Studies 5
Units: 10
Locations: Callaghan
Students will apply movement principles and develop skill competencies across a range of core physical activities. Specifically, students will examine track and field techniques, dance and football.
Assumed Knowledge: HUBS1503, HUBS1504, HUBS2509, HUBS2510

EDUC3033 Physical Education Studies 6
Units: 10
Locations: Callaghan
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: HUBS1501, HUBS1502, HUBS2510, HUBS2511

EDUC3034 Teaching and Learning in S&T and PDHPE K-6
Units: 10
Locations: Callaghan
This course comprises two equal components.
Part A: Teaching and Learning in Science and Technology and Part B: Teaching and Learning in PDHPE. Together these components develop an understanding of the rationale for Science and Technology and PDHPE in K-6, an understanding of both syllabus documents and knowledge and skill in planning, implementing and assessing programs in these areas for K-6 students.
Assumed Knowledge: PSYC2900 Foundations in Science and Technology, PSYH2030 Foundations in PDHPE, EDUC1003, EDUC1005, EDUC1004, EDUC1006, EDUC2048, EDUC2049

EDUC3050 Teaching and Learning in English 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of English syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach English at the secondary school level.
Assumed Knowledge: EDUC1005, EDUC1006, EDUC2014, EDUC2050

EDUC3051 Teach & Learn in PDHPE 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of PDHPE syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach PDHPE at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2025 (Teaching and Learning in PDHPE 1), EDUC2051 (T&L in PDHPE 2)

EDUC3052 Teaching and Learning in Science 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of Science syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach Science at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2033 (Teaching and Learning in Science 1), EDUC2052 (Teaching and Learning in Science 2)

EDUC3060 Teaching and Learning in Social Sciences 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of HSIE syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach HSIE at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2036 (Teaching and Learning in Social Sciences 1), EDUC2060 (T&L in Social Sciences 2)

EDUC3071 Teaching and Learning in Visual Arts 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of Visual Arts syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach Visual Arts at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2036 (Teaching and Learning in Visual Arts 1), EDUC2071 (Teaching and Learning in Visual Arts 2)

EDUC3080 Teaching and Learning in Music 3
Units: 10
Locations: Callaghan
This course will develop students' pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of Music syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach Music at the secondary school level.
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2022 (Teaching and Learning in Music 1), EDUC2080 (Teaching and Learning in Music 2)
EDUC3090 Teaching and Learning in Maths 3  
Units: 10  
Locations: Callaghan  
This course will develop students’ pedagogical understanding of programming and assessment procedures suitable for use at the secondary school level. Students will continue examination of Mathematics syllabuses. They will consider the rationale of the syllabuses, curriculum and assessment plans suitable for a particular syllabus (using knowledge of programming and assessment procedures introduced in this course), and gather resources that will help them to teach Mathematics at the secondary school level.  
Assumed Knowledge: EDUC1005 (Professional Preparation 1A), EDUC1006 (Professional Preparation 1B), EDUC2019 (Teaching and Learning in Mathematics 1), EDUC2090 (T&L in Mathematics 2).

EDUC3102 Professional Experience 2  
Units: 10  
Locations: Callaghan  
Students undertake the equivalent of 20 days workplace experience in a K-2 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 and 2 of the program, EDUC3148, EDUC3001 and EDUC3151.

EDUC3103 Early Childhood Special Education  
Units: 10  
Locations: Callaghan  
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.

EDUC3142 Professional Experience - Inclusive settings  
Units: 10  
Locations: Callaghan  
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 and class and individual needs, teaching, assessing and evaluating.  
Assumed Knowledge: EDUC1003 Learners and the Learning Processes (10 units), EDUC1004 Contexts of Teaching (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).

EDUC3145 Teaching and Learning in HSIE  
Units: 10  
Locations: Callaghan  
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.  

EDUC3148 Creative Arts for Early Childhood Education  
Units: 10  
Locations: Callaghan  
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: EDTE111, EDTE131 and EDTE132.

EDUC3150 Science & Technology for Early Childhood Educators  
Units: 10  
Locations: Callaghan  
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: SCIM2030.

EDUC3151 Early Childhood Curriculum Studies II  
Units: 10  
Locations: Callaghan  
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.  

EDUC3200 Training & Assessment in Vocational Education  
Units: 10  
Locations: Callaghan  
Designed for teacher trainees seeking accreditation to teach vocational education courses in secondary schools, and meets relevant industry and Department of Education and Training requirements. This course will enable participants to plan, deliver and evaluate competency-based training and assessment strategies within their vocational area. It also provides an orientation to relevant school curriculum and industry endorsed competency standards. This course, in conjunction with other Teaching and Learning and VET based courses will achieve all of the competencies of the Certificate IV in Training and Assessment.  
Assumed Knowledge: EDUC1023, EDUC2200.  
This course allows participants to draw on, and transfer, the knowledge and skills gained through previous teaching and training courses into a vocational, competency-based education and training framework.

EDUC4001 Managing Early Childhood Services  
Units: 10  
Locations: Callaghan  
Studies the role of the early childhood professional in the management and delivery of services to children and families.  
Assumed Knowledge: EDUC3151, EDUC3002.

Units: 10  
Locations: Callaghan  
This course will develop knowledge of school and systemic contexts which impact upon service delivery in special education. Specifically, students will examine the range of settings for special education, ethical and interpersonal issues which must be considered, and the range of curriculum content available to students with special educational needs in diverse contexts.  
Note: That a requirement of this course is that students attend 2 one-hour visits to local special education settings. Times for visits will be negotiated with students.  
Assumed Knowledge: EDUC3026.

EDUC4005 Introduction to Materials and Design in Technology  
Units: 10  
Locations: Callaghan  
A practical workshop-oriented course. Students will be expected to develop skills associated with the manipulation of wood, metals and plastics through workshops and classroom based projects. The materials and projects explored will be appropriate for school-based learning. All students will be required to demonstrate workshop competencies in line with Occupational Health and Safety guidelines.  
Assumed Knowledge: Candidates must already have a degree or recognised equivalent qualification with content suitable for the mandatory requirements for a Technology and Applied Studies (TAS) teacher.

EDUC4036 Teaching and Learning in Drama 3B  
Units: 10  
Locations: Callaghan  
Provides students with skills and knowledge in developing lessons, programs and assessing Drama at the Senior Level.  
Contact hours: 3 hours per week  
Assumed Knowledge: EDDR221, 222, 322 or equivalent courses.

EDUC4037 Teaching and Learning in TAS 3B  
Units: 10  
Locations: Callaghan  
Extends the professional skills of the pre-service teacher in the areas of technology education and resource awareness in line with current syllabuses and teaching practice in Technology and Applied Studies (TAS). Students will engage in the critical examination of current curricula, their historical reference and future issues related to implementation and policy. Students will engage in critical 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 teacher and critically examine syllabuses, its application to the classroom and related practical assessment issues.  
Assumed Knowledge: NI.
EDUC4038  Training, Learning and Assessment in Vocational Ed
Units: 10
Locations: Callaghan
Designed for teacher trainees seeking accreditation to teach vocational education courses in secondary schools, and meets relevant industry and Department of Education and Training requirements. This course will enable participants to plan, deliver and evaluate competency-based training and assessment strategies within their vocational area. It also provides an orientation to relevant school curriculum and industry endorsed competency standards. Classes may be offered at Callaghan, Wollongong, Bossley Park and Central Coast Campuses in accordance with program schedules.
Assumed Knowledge: This course allows participants to draw on, and transfer, the knowledge and skills gained through previous teaching and training courses into a vocational, competency-based education and training framework. Applicants may apply for partial credit (up to 65%) in this subject if they have successfully completed Certificate IV Work Place Training and Assessment. Students must then complete Assessment Task 1 to meet outcomes in this subject not met within Certificate 4.

EDUC4039  Design and Technology Studies 4
Units: 10
Locations: Callaghan
Investigates, through practical involvement, how design, manufacture and marketing can be used in a Technology Education setting, to achieve innovative solutions to practical problems.
Assumed Knowledge: NA

EDUC4040  Graphics IV
Units: 10
Locations: Callaghan
Workshop course that builds on students current drawing expertise, through practical projects, concentrating on graphics production applicable to the Technology Applied Studies Curriculum. Students will be required to develop skills in the production of a variety of graphics consistent with the design of an artifact or the process documentation of a design project. Students will explore practical classroom issues that are involved in the facilitation of visual communication skills and techniques and design units of work incorporating visual communication skills. Basic CAD systems will be utilised as part of the course.
Assumed Knowledge: Candidates should already hold a degree or recognised equivalent qualification with content suitable for the mandatory requirements of a Technology and Applied Studies(TAS)teacher

EDUC4041  Design and Technology IV
Units: 10
Locations: Callaghan
Explores the philosophy and practical nature of the Design & Technology Syllabi and its related context areas. Students are introduced to the concepts and research surrounding the design process and will examine the role of design in society and its related social, historical and cultural contexts. Through the engagement in the process and the investigation of an actual design brief, students explore both the skills required to solve design problems and the pedagogical knowledge and skills required to design learning experiences in this area. Classes will be held at Callaghan (both semesters) and Wollongong (Semester 1).
Assumed Knowledge: Candidates must hold a degree or recognised equivalent qualifications with content suitable for the mandatory requirements for a Technology and Applied Studies (TAS) teacher

EDUC4045  Early Childhood Internship
Units: 20
Locations: Callaghan
Central Coast
Places final year students in a workplace setting for an extended period under the supervision of an experienced teacher, as though the student were being inducted into the profession as a beginning 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 BTeach/BScSocSc including Practicum 1 and Practicum 2.

EDUC4046  Early Childhood Special Education
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
Central Coast
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

EDUC4051  Teaching and Learning in LOTE 3B
Units: 10
Locations: Callaghan
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: EDLA322

EDUC4055  Practicum II
Units: 10
Locations: Callaghan
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 EDPR401 Practicum II: EDPR301, EDTE312, EDPR351

EDUC4056  Internship
Units: 20
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This course builds upon previous studies of Primary Key Learning Areas, to develop an understanding of literacy as a socio-cultural phenomenon that develops through all knowledge contexts.
Assumed Knowledge: EDUC2030 - Teaching and Learning in English K-6 EDUC2031 - Teaching and Learning in Maths K-6 EDUC3142 - Professional Exp Inclusive Settings EDUC3145 - Teaching and Learning in Primary EDUC3034 - Teaching and Learning in PD/H/PE & S&T
EDUC4060 Special Education Internship
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
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: EDTE312

EDUC4063 Planning for Teaching in Special Education
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
Central Coast
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.
Assumed Knowledge: Nil

EDUC4065 Supporting Behaviour Change
Units: 10
Locations: Callaghan
Central Coast
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

EDUC4066 Materials & Design in Technology
Units: 10
Locations: Callaghan
A practical workshop-oriented course. Students will be expected to develop skills associated with the manipulation of wood, metals and plastics through workshops and classroom based projects. The materials and projects explored will be appropriate for school-based learning. All students will be required to demonstrate workshop competencies in line with Occupational Health and Safety guidelines.
Assumed Knowledge: Candidates must already have a degree or recognised equivalent qualification with content suitable for the mandatory requirements for a Technology and Applied Studies (TAS) teacher.

EDUC4067 Applied Technology
Units: 10
Locations: Callaghan
Extends students' skills and knowledge in the areas of the senior Industrial Technology syllabus and the Design and Technology syllabus. Students will be required to create projects and design working programs in the focus syllabus areas. Students are required to extend their knowledge and application of set workshop competencies in line with Occupational Health and Safety guidelines.
Assumed Knowledge: Candidates must have a degree or recognised equivalent qualifications with content suitable for the mandatory requirements for a Technology and Applied Studies (TAS) teacher.

EDUC4069 Teaching & Learning in Social Sciences 3B
Units: 10
Locations: Callaghan
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: EDSS322

EDUC4070 Literacies Across the Secondary Curriculum
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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: EDTE302

EDUC4072 Internship
Units: 20
Locations: Callaghan
Requires the student to undertake 50 days of school based experience. The Intern will be responsible for up to 2/3 of the colleague teacher’s teaching load. In addition Interns will be expected to interact within the school and its community.
Assumed Knowledge: The following subjects, or those of deemed equivalence provide the assumed knowledge for EDTE403: EDTE402 Practicum 2, EDSS301 Professional Experience 2.
Students undertaking the Internship must have successfully completed 270 credit points of Bachelor of Teaching/relevant discipline degree.

EDUC4073 Aboriginal and Contemporary Issues in Education
Units: 10
Locations: Callaghan
This course is divided into two parts. One part will allow students to choose from a range of educationally-oriented electives offered by staff of the School of Education. The other part will develop students’ understanding of Aboriginal culture and the challenges faced by Aboriginal students when they attend formal institutions such as schools that are not part of Aboriginal culture. This second part on Aboriginal culture will be taken by all students.
Assumed Knowledge: EDUC1003 Learners and the Learning Process, EDUC1004 Contexts of Teaching, EDUC3026 Special Education, EDUC2039 Practicum 1, EDUC3023 Practicum 2

EDUC4077 Professionalism & Teacher’s Work
Units: 10
Locations: Callaghan
Provides the opportunity 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: Nil

EDUC4078 Teacher Research Project
Units: 10
Locations: Callaghan
Central Coast
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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

EDUC4083 Specialist Studies D
Units: 10
Locations: Callaghan
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: N/A

EDUC4084 Specialist Studies E
Units: 10
Locations: Callaghan
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 Primary Professional Preparation 4
Units: 10
Locations: Callaghan
Focuses on the professional preparation needs of a beginning teacher in a K-6 setting.
Assumed Knowledge: EDUC2048, EDUC2049, EDUC3142

EDUC4086 Professional Preparation 4
Units: 10
Locations: Callaghan
Focuses on the professional preparation needs of a beginning teacher.
Assumed Knowledge: EDTE131, EDTE231, EDTE331 or equivalent subjects

EDUC4090 Teaching & Learning in English 4A
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 4B
Units: 10
Locations: Callaghan
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 teacher to critically examine syllabus, its application to the classroom and related practical assessment issues.
Assumed Knowledge: EDTT333, EDTT223 and EDTT221.

EDUC4095 Teaching and Learning in TAS 4A
Units: 10
Locations: Callaghan
Provides an overview of technology education. It is designed to introduce students to the knowledge and skills required to teach technology education. The course will also examine the ways in which technology education can be used to support student learning. Attention is given to the integration of theory and practice, and in particular, the application of research findings to course usage in education.
Assumed Knowledge: EDTT221, EDTT223, EDTT333

EDUC4098 HSIE FOR EARLY CHILDHOOD EDUCATION
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
Deepens 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, EDVA233, and EDVA333.

EDUC4101 Teaching & Learning in PDHPE 4A
Units: 10
Locations: Callaghan
Enables students to develop an understanding of post-compulsory PDHPE subjects offered in NSW schools. Students will understand the scope, content, teaching strategy, assessment, planning and resources required to effectively implement and teach PDHPE in year 11-12.
Assumed Knowledge: EDPH221, EDPH233 and EDPH333 or equivalent subjects.

EDUC4102 Teaching & Learning in PDHPE 4B
Units: 10
Locations: Callaghan
Enables students to develop an understanding of the effective teaching foundations, curriculum development and how they relate to PDHPE. Students will undertake curriculum planning, analysis of problems, strategies and current issues that impact upon the PDHPE curriculum.
Assumed Knowledge: EDPH221,223,333, or equivalent subjects.

EDUC4103 Teaching and Learning in Music 4A
Units: 10
Locations: Callaghan
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: EDMU220, EDMU223 and EDMU333

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Guide to Undergraduate and Postgraduate Courses - 2003
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<td>EDUC6005</td>
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EDUC6006 Contemporary Issues in Early Childhood

**Units:** 10  
**Locations:** Callaghan  
**Central Coast**  
Explores many contemporary and popularised issues that are prevalent concerns within the early childhood context. Some of the topics included are: changing family contexts, environmental issues, technological change, innovative programs, parent involvement, professionalism, accreditation, and understandings of early childhood to school transition. This course is offered at both Callaghan and the Central Coast campuses.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6007 Issues for Research in Early Childhood

**Units:** 10  
**Locations:** Callaghan  
**Central Coast**  
Addresses current major research issues in early childhood, adopting where appropriate a multidisciplinary approach to issues and areas studied. Students are able to explore, in some depth, areas of relevant personal interest.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6008 Identification of Gifted and Talented Students

**Units:** 10  
**Locations:** Callaghan  
Examines philosophy of giftedness and talent and the virtue or otherwise of identifying those who fall into these categories and then providing them with any special form of education. The principal way in which these features have been identified in the past and present will be considered along with the theoretical and philosophical bases for such methods.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6009 Cognitive Competencies in Extraordinary Tal & Expe

**Units:** 10  
**Locations:** Callaghan  
Examines the developments that have occurred in recent decades in the concepts of both intelligence and creativity. In addition to the theoretical nature of these changes, consideration will be given to the ways in which these changes have lead to improvements in the identification and teaching of the gifted.

**Contact hours:** 2 hour per week  
**Assumed Knowledge:** Nil

EDUC6010 Society, Culture and Gender in Gifted Education

**Units:** 10  
**Locations:** Callaghan  
Examines the social, cultural and gender issues related to the various imbalances in gifted education. In particular the under representation of minority groups in many programs of gifted education will be considered, along with the reasons for the under representation of females in mathematics and natural science disciplines. Some of the current controversial theories on the genetic basis of intelligence will also be considered and critiqued.

**Assumed Knowledge:** Experienced teachers and administrators

EDUC6011 Curriculum and Programming in Gifted Education

**Units:** 10  
**Locations:** Callaghan  
Considers ways in which curriculum goals and objectives are combined to construct and implement curricula for the gifted in both mixed ability and specialist classes. Issues will include the effects of teaching and learning within and across Key Learning Areas and methods of challenging students through a variety of strategies including accelerated learning.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6012 Introduction to Educating Boys

**Units:** 10  
**Locations:** Callaghan  
Introduces genetic and social development perspectives of gender development and masculinity and their relevance to boys learning and behaviour. It will review historical and current policy and practice in educating boys in the light of these genetic and social factors pertaining to masculinity.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6013 Addressing the Academic and Social Needs of Boys

**Units:** 10  
**Locations:** Callaghan  
Explores the link between boys' social needs and their academic performance. The variety of boys' behaviours is examined, including physical and verbal ways of relating to others. Disruption and disengagement in the classroom will be discussed and analysed as well as bullying, aggression and peer pressure. Boys' relationships with each other, with girls, with teachers and the school will be examined in terms of the social needs that boys are trying to meet within their male identities. Strategies for teachers and schools to enable boys to meet these needs and achieve successful academic performance and social relationships are discussed.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6014 Pedagogical Issues in Educating Boys

**Units:** 10  
**Locations:** Callaghan  
Examines the relevance of socio-economic and cultural backgrounds and the influence of homophobia on all boys. Socio-economic, cultural and individual differences will be discussed as influences on boys' learning. The implications of these and of gender differences for effective teaching of boys will be discussed. Theoretical and practical knowledge of multiple intelligences, teaching and learning styles and behaviour management approaches will be discussed.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

EDUC6015 School Orgn & Structural Issues in Educating Boys

**Units:** 10  
**Locations:** Callaghan  
Examines current practices in schools. A variety of structural and organisational approaches will be considered including middle schools and single sex classes, in a co-educational setting. School structures will be examined in the light of the types of relationships they encourage between males and females, between staff and students, within the staff, and between the school and the community. The link between school structures and teaching and learning will be examined.

**Contact hours:** 2 hours per week  
**Assumed Knowledge:** nil

EDUC6016 Leadership and Strategic Management

**Units:** 10  
**Locations:** Callaghan  
Focuses on the theoretical concepts and best practices relating to leadership, styles of leadership, professionally staffed organisations, leading & managing organisations and leading and managing change in organisational settings as well as the concept and perspectives of strategic management, levels and modes of strategy; managing organisations strategically and how to develop, implement and evaluate strategy.

**Assumed Knowledge:** Nil

EDUC6017 Organisational Behaviour and Managing People

**Units:** 10  
**Locations:** Callaghan  
Focuses on organisational behaviour including individual differences and interpersonal relations; group dynamics and leadership; organisational structures and processes; job satisfaction and organisational performance as well as general perspectives in managing people; team roles; team work and strategic management.

**Assumed Knowledge:** Nil

EDUC6018 Information Technologies and Education

**Units:** 10  
**Locations:** Callaghan  
Examines the important role of Information Technologies (IT) in education. Applications of (IT) to support learning, teaching and management in a variety of educational contexts will be critically examined to determine the impact of IT on educational practice.

**Assumed Knowledge:** Nil

EDUC6019 Instructional Leadership and Program Evaluation

**Units:** 10  
**Locations:** Callaghan  
In this course the relationship between management, curriculum and school based programs will be explored. Emphasis will be placed on critically examining the notion of instructional leadership in relation to particular reforms and changing cultural, technological and systemic conditions in which programs are designed, implemented and evaluated.

**Assumed Knowledge:** Nil
EDUC6020 Operating Contexts of Educational Management

Units: 10
Locations: Callaghan
Distance Education - Callaghan

Provides a critical understanding of the social, cultural, historical and industrial contexts within which educational managers and leaders work. Particular emphasis will be placed on considering the ways in which educational leaders and managers contribute to and might shape social directions.

Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6021 Professional Study A

Units: 10
Locations: Callaghan

Provides a conceptual framework within which specific educational emphases can be pursued through the teaching of specialist selected topics related to the strand being completed in the Graduate Certificate in Educational Studies. The intent of the course is to encourage students to investigate in depth, topics of relevance to their particular specialist needs.

Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6022 Professional Study B

Units: 10
Locations: Callaghan

Provides a conceptual framework within which specific educational emphases can be pursued through the teaching of specialist selected topics related to the strand being completed in the Graduate Certificate in Educational Studies. The intent of the course is to encourage students to investigate in depth, topics of relevance to their particular specialist needs.

Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6023 Cultural Variations in Language Learning

Units: 10
Locations: Callaghan

Many of the cultural expectations that are implicit to language learning are carried subconsciously by native speakers but are often invisible to second language learners. Such aspects as pragmatics, language use and appropriate role behaviour are often culture-specific and are likely to override semantic considerations for language learners.

Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6024 Practicum in TESOL

Units: 10
Locations: Callaghan

Provides students with the opportunity to implement TESOL skills and knowledge in two site-based teaching settings.

Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6025 TESOL Curriculum and Methodology

Units: 10
Locations: Callaghan

Develops understanding of the relationships between the social and cultural contexts of non-English speaking background (NESB) students and the pedagogic principles and practices of extending their competence in using English as their second language. It also aims to develop understanding of global, national and local educational contexts related to speakers of English as a second language (ESL) within an Australian learning environment.

Contact Hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6026 Minor Thesis A

Units: 10
Locations: Callaghan
Central Coast

Provides the opportunity to undertake research in an area of interest to the student. The research may take the form of an empirical study, a review of the literature or another research format in conjunction with the supervisor. Taken in conjunction with EDUC6027 Minor Thesis B.

Assumed Knowledge: EDUC6048 Research Methodology

EDUC6027 Minor Thesis B

Units: 10
Locations: Callaghan
Central Coast

Provides an opportunity to undertake research in an area of interest to the student. The research may take the form of an empirical study, a review of literature or another research format in conjunction with the supervisor. Taken in conjunction with EDUC6026 Minor Thesis A.

Assumed Knowledge: EDUC6048 Research Methodology

EDUC6028 A Directed Study

Units: 10
Locations: Central Coast

This subject may be taken by a student who has completed at least four semester units and who is interested in developing a specialised topic with the close direction of a staff member. The consent of both the staff member to be involved and the Program Coordinator is required. Intending students must consult with the Program Coordinator before enrolling. A detailed proposal must be supplied to the Program Coordinator on the Directed Study proforma by the end of the second week of the semester. The proposal must be written in conjunction with the staff member concerned. This subject is offered at both Callaghan and the Central Coast campuses.

Contact Hours: By arrangement
Assumed Knowledge: Nil

EDUC6029 Sociology of Education

Units: 10
Locations: Callaghan

Examines the social and cultural contexts of education, past and present, local and international. It will deal with a range of social and cultural issues that regularly confront and challenge educators, including those related to gender, class, ethnicity, beliefs and values stances. In dealing with these, the general concepts and theories that arise from the literature of educational sociology will be applied to practical educational situations, including those of the students. The mode of study will be an adapted version problem-based learning.

Contact Hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6030 POWER AND PEDAGOGY

Units: 10
Locations: Callaghan

Examines such topics as space and architecture, the organisation of time, documents and artefacts of schooling, school regulations and rituals, classroom practices, and the effects of power on both teachers and students. Students will have the opportunity to apply key concepts of the topic, such as techniques of power, the circulation of power, and power’s productiveness, to their own work or educational contexts.

Assumed Knowledge: Nil

EDUC6031 Psychological Foundations of Musical Behaviour

Units: 10
Locations: Callaghan

Provides an introduction to the psychology of music and a foundation study for research in learning in music and musical perception. The subject is delivered via the internet and a set of readings that explore current issues and research practice in this area. Students will be expected to have access to the internet and electronic mail.

Contact Hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6032 Introduction to Educational Administration

Units: 10
Locations: Callaghan

Introduces students to the basic theoretical concepts of educational administration. Topics include: everyone is a manager; evolution of educational administration; what do we understand by educational administration; organisational characteristics; administrative tasks and responsibilities; administrative and instructional leadership; decision-making; organisational communication; leading and managing meetings and human resources management.

Contact Hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6033 Educational Administration: Theory and Practice

Units: 10
Locations: Callaghan

Focuses on the following topics: theoretical foundations of educational administration; bureaucratic; organisational climate and culture; professionals in organisations; educational leadership; motivation and job satisfaction; organisational communication; management and resolution of conflicts; organisational politics and democratisation and participatory decision making.

Contact Hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6034 Leading Educational Change

Units: 10
Locations: Callaghan

The role of educational leaders in the complex area of change in all sectors of education will be explored through issues such as: analysing the change process, defining educational change, determining individual change, determining individual, group and organisational responses to change, implementing change, coping with resistance to change, and managing planned change.

Assumed Knowledge: Nil
**EDUC6035 Administrative Behaviour & Educational Management**

**Units:** 10  
**Locations:** Callaghan  
Focusses on enhancing the knowledge and understanding on administrative behaviour and effective management of educational institutions including management as an integrating activity and developing the skills and competencies relating to relevant administrative process as well as the concepts of administrative values, beliefs, planning and policy formulation, decentralisation and devolution, educational change and school-based management.  
**Assumed Knowledge:** Nil

**EDUC6036 Information Technology & Educational Leadership**

**Units:** 10  
**Locations:** Distance Education - Callaghan  
This course examines the relationship between information technology and educational leadership. In recent years, there has been rapid implementation of information technology in schools. This has resulted in many challenges for educational leaders in terms of policy development, planning, infrastructure, staff development and ethical issues as they and their staff determine appropriate uses of information technology in teaching, learning and administration. This course explores these implementation processes.  
**Assumed Knowledge:** Nil

**EDUC6037 Women in Edu: History Perspective**

**Units:** 10  
**Locations:** Distance Education - Callaghan  
Explores gender in education and in particular will provide perspectives on the provision made for the education and training of females in Australia during the nineteenth and twentieth centuries (up to the 1950’s) from primary through to tertiary levels of education. Students will be asked to look at current gender issues in education from an historical perspective including the co-education debate, the disintegration of home economics in the secondary curriculum and the special ‘girls curriculum’. Special sections will look at women teachers, their training and work experiences in the past and the gendered nature of non-school, workplace training. The treatment of gender as problematic in education has opened up a whole new field of research, and emphasis will be placed on the consideration of the methodological issues and approaches emerging in the field.  
**Assumed Knowledge:** Nil

**EDUC6038 Introduction to Educational Computing**

**Units:** 10  
**Locations:** Distance Education - Callaghan  
Provides an introduction to the main usage of computers in education. It is designed to introduce students to the various types of computers, and examine the ways in which computers can be used to support and extend student learning. Attention is also given to the integration of theory and practice, in particular, the application of research findings to computer usage in education.  
**Assumed Knowledge:** Nil

**EDUC6039 Applications of Computers in Education**

**Units:** 10  
**Locations:** Callaghan  
The major focus of this unit is to examine the use of computers as a tool for learning and the integration of computers into wider learning experiences. In this context, students will explore the educational uses of software applications such as word processing, desktop publishing, database management, spreadsheets, and adventure games. They will also learn to evaluate educational software. Attention is given to the integration of theory and practice, in particular, the application of research findings to computer usage in education.  
**Assumed Knowledge:** Nil

**EDUC6040 Computing Studies in Schools**

**Units:** 10  
**Locations:** Distance Education - Callaghan  
Focusses on various aspects of computer studies syllabus documents with an emphasis on implementation. The nature of "technology" based syllabus documents and development will be addressed. Consideration is also given to the place of computer studies syllabus documents in national frameworks for technology education and integrated approaches to computer based learning. Key topics include curriculum planning, resources management, unit development, and evaluation. A major component of this subject is a depth study on a student selected computer studies syllabus area.  
**Assumed Knowledge:** Nil

**EDUC6041 Instructional Strategies in Computer Education**

**Units:** 10  
**Locations:** Callaghan  
Primarily concerned with the effective use of computer-based technology in classroom situations. The educational rationale for using common computer applications will be considered in the context of current school based computer curricula. The practical and theoretical aspects of implementing courses using word processing, database, spreadsheet, graphic packages and computer assisted instruction will be related to relevant research on teaching and learning strategies.  
**Assumed Knowledge:** Nil

**EDUC6042 Computers and Learning**

**Units:** 10  
**Locations:** Callaghan  
Provides an in-depth study of theories and research on using computers in learning. In this context, particular focus will be given to the various theoretical and research perspectives in using the Internet. Emphasis will be placed on the examination of various problems and issues when computers are used in learning, eg, the affective, social, cognitive and metacognitive development of learners within a computing environment, the instructionism vs constructivism debate, individual differences in using computers, cultural, social and equity issues, research methodology and assessment. Further, the implications of these dimension for classroom practice will be explored.  
**Assumed Knowledge:** Nil

**EDUC6043 Religious Education: Theory and Practice**

**Units:** 10  
**Locations:** Callaghan  
Provides opportunities for students to develop knowledge and understanding of religious education in both its conceptual and practical aspects. The relevant theoretical insights from research in general education contexts will be explored for their relevance to prominent theories of religious education. The particular relevance of historical, philosophical and theological insights to current religious education practices will be examined with a view to their relevance to particular settings and, in particular, to the practical setting(s) of the students in question. The subject will ultimately challenge students to relate their knowledge of religious education to a particular setting in which religious education is practised.  
**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

**EDUC6044 Educational Technology**

**Units:** 10  
**Locations:** Distance Education - Callaghan  
Focuses on the impact of educational technology across a broad range of educational settings. The introduction, practical use and effective management of educational technology will be considered, in conjunction with the literature on the effects of this technology on teaching and learning.  
**Assumed Knowledge:** Nil

**EDUC6045 Towards Independent Learning Research & Strategies**

**Units:** 10  
**Locations:** Callaghan  
Provides an understanding of recent research, policy development and practice in teaching and learning for independence. The focus will be on efficacy of a range of teaching strategies, reflection, and their relationships to developmental levels.  
**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil

**EDUC6047 Exploring Curriculum: Res, Policy and Practice**

**Units:** 10  
**Locations:** Callaghan  
Focuses on those aspects of educational research which inform the theory and practice of curriculum. It will challenge students to utilise this research in designing, implementing and evaluating curriculum in their own educational site.  
**Assumed Knowledge:** Nil

**EDUC6048 Research Methodology**

**Units:** 10  
**Locations:** Callaghan  
Provides an introduction to research methodologies in education, both qualitative and quantitative. The subject introduces students to contemporary perspectives in educational research, and in particular focuses on developing a range of skills involved in formulating a research proposal, including framing research questions, reviewing the literature and choosing appropriate methodologies for different types of study. The ways in which researchers from different research traditions use the different methods of collecting research data (for example, interview, questionnaire and observation) will be included. As the subject is intended to prepare students either for a research thesis or an industry-based project some preliminary work on the development and administration of a research instrument (eg, a questionnaire or an interview) is included.  
**Contact hours:** 2 hours per week  
**Assumed Knowledge:** Nil
EDUC6049  Educational Research Methodology 2: Qualitative
Units: 10
Locations: Callaghan
Provides a generic introduction to the knowledge, skills and tools that a student will require when undertaking a qualitative research study in education. In particular, the subject focuses on the areas of data collection and analysis. Emphasis is given to understanding, evaluating, and gaining experience in the multiple processes of gathering, managing, exploring, interrogating and interpreting textual data. This will include practical sessions in using and evaluating Qualitative Data Analysis Software. Students will be encouraged to apply their skills to data that is relevant to their particular specialist needs.
Contact hours: 2 hours per week
Assumed Knowledge: EDMG505

EDUC6050  Educational Research Methodology 1: Quantitative
Units: 10
Locations: Callaghan
Offers students skill development in quantitative methods of the collection, analysis and reporting of research data, including introduction to the statistical software package SPSS. Analyses of data and hypothesis testing are undertaken using basic descriptive and inferential statistical procedures.
Contact hours: 2 hours per week
Assumed Knowledge: EDMG505

EDUC6051  Industry/Work Based Project
Units: 10
Locations: Callaghan, Central Coast
Conducted in a work-place, or industry educational setting, the course will provide students with the opportunity to design, conduct and analyse research focusing on an issue of concern to them in an in-depth manner.
Assumed Knowledge: Nil

EDUC6052  Specialist Study A
Units: 10
Locations: Callaghan
Provides a conceptual framework within which specific educational emphases can be pursued through the teaching of specialist selected topics. The intent of the subject is to encourage students to investigate in depth, topics of relevance to their particular specialist needs.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6053  Specialist Study B
Units: 10
Locations: Callaghan
Provides a conceptual framework within which specific educational emphases can be pursued through the teaching of specialist selected topics. The intent of the subject is to encourage students to investigate in depth, topics of relevance to their particular specialist needs.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6054  Practicum in Sensory Disability
Units: 10
Locations: Callaghan
Provides practical experiences in settings in which children with sensory disabilities are being educated. Skills in planning, implementing, managing and evaluating programs will be assessed. There will generally be three placements. These may be block placements of three weeks (15 days) or 10 hours per week for eight weeks.
Contact hours: 3 hours per week
Assumed Knowledge: Completion of supervised practicum in sensory disability in previous award

EDUC6055  Educational Audiology Speech & Auditory Develop
Units: 10
Locations: Callaghan
Introduces students to the anatomy and physiology of hearing and speech as a basis for understanding the mechanisms underlying auditory perception and speech production.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6056  Lang&Comm Devel for Studs Hearing Impairmen
Units: 10
Locations: Callaghan
Provides an understanding of the process of language acquisition and the inter-relation of communication systems with that process.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6057  Social Language & Cultural Studies in Deafness
Units: 10
Locations: Callaghan
Introduces the socio-cultural perspective on deafness through lectures, discussions and audio-visual media.
Contact hours: 2 hours per week
Assumed Knowledge: Demonstrated competence in Auslan at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College subject Auslan for Educators 1.

EDUC6058  Curriculum studies: Spoken language
Units: 10
Locations: Callaghan
Introduces the socio-cultural perspective on deafness through lectures, discussions and audio-visual media. Characteristics of the culture of deaf people (including history, literature, theatre and art) are considered as is the development of social structures and community resources.
Contact hours: 2 hours per week
Assumed Knowledge: Demonstrated competence in Auslan at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College subject Auslan for Educators 1.

EDUC6059  Language and Literacy in Deafness & Hearing Impair
Units: 10
Locations: Distance Education - Callaghan
Consider the range of language learning situations of deaf and hearing impaired children and examines the process of literacy acquisition as it applies to these groups of learners - including those learning English as a second language.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6060  Teaching Thinking Skills in Primary School
Units: 10
Locations: Distance Education - Callaghan
This course aims to provide a theoretical context for encouraging thinking skills in primary school classrooms. It will provide students with advanced skills in organising and implementing strategies to encourage higher order thinking in the curriculum within the primary school context.
Assumed Knowledge: Nil

EDUC6061  Studies in Auslan
Units: 10
Locations: Callaghan
Provided students with a knowledge of the linguistic fundamentals of sign languages and, in particular of Australian Sign Language (Auslan).
Contact hours: 2 hours per week
Assumed Knowledge: Demonstrated competence in Auslan at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College subject Auslan for Educators 1.

EDUC6062  Sign Language in Education Advanced Practice
Units: 10
Locations: Callaghan
Aims to develop an advanced level of knowledge and a high level of competence in the use of sign language for pedagogical purposes.
Contact hours: 2 hours per week
Assumed Knowledge: Demonstrated competence in Auslan at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College subject Auslan for Educators 2 or concurrent pursuit of a course of study in Auslan that will result in the development of skills to at least that level within the period of enrolment in the subject.

EDUC6063  Advanced Issues in Educ Audiology and Sensory Aids
Units: 10
Locations: Callaghan
Develops a high level of understanding of the use of sensory devices by children who are deaf and hearing impaired.
Contact hours: 2 hours per week
Assumed Knowledge: EDMG505 Educational Audiology, Speech and Auditory Development or its equivalent.
EDUC6064 | Auditory/Oral Prog Hearing-Impaired Child Adv Prac
---|---
Units: 10 | Locations: Callaghan
Provides an auditory/oral elective stream for teachers of the hearing impaired. Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6055 | Advanced Auslan Skills for Educators
---|---
Units: 10 | Locations: Callaghan
Focuses on particular aspects of Auslan, such as fingerspelling, the use of space, and what is commonly known as 'role shifting'. This course will cover comprehension of content and an analysis of the morphology and vocabulary within various texts.
Assumed Knowledge: Renwick College course Auslan for Educators 3 or an equivalent level of Auslan studies.

EDUC6066 | Sensory Systems Perception & Child Development
---|---
Units: 10 | Locations: Callaghan
Provides a basic knowledge of sensory systems and child development.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6067 | Orientation & Mobility Students Vision Impairmt
---|---
Units: 10 | Locations: Callaghan
Introduces basic sighted guide, protective techniques and cane skills and the theory of teaching these skills to students.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6068 | Specialised Curriculum Students Vision Impairmt
---|---
Units: 10 | Locations: Callaghan
Provides an overview of the specialised curriculum for students with vision impairment and access to the regular curriculum.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6069 | Appln Technol Instructn Studs Visual Impairmts
---|---
Units: 10 | Locations: Callaghan
Provides an overview of low vision devices and technology for individuals with vision impairment.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6070 | Teach Literacy Vision Impaired & Blind Students
---|---
Units: 10 | Locations: Callaghan
Provides an overview of strategies and approaches for teaching communication skills to students with vision impairment focusing on literacy skills.
Contact hours: 2 hours per week
Assumed Knowledge: Demonstrated proficiency in Grade I and Grade II Braille (e.g. completion of a course in Braille, Certificate in Braille Proficiency).

EDUC6071 | Orientation & Mobility for Learners Multi Disability
---|---
Units: 10 | Locations: Callaghan
Introduces the candidates to orientation and mobility (O&M) for students with multiple disabilities. Topics will include the history and development of O&M as a profession, basic principles of O&M, functional vision assessment, concept development and adapted teaching of O&M skills for children with a vision disability and multiple impairments.
Contact hours: 4-5 hours per week
Assumed Knowledge: Nil

EDUC6072 | Devel Commun Skills in Studs Dual Sens Dis
---|---
Units: 10 | Locations: Callaghan
Provides teachers with the knowledge and skills to enable them to understand the theoretical and practical approaches involved in the development of communication in learners with dual-sensory impairments. This will be attained through thinking, reading, practical work, and observation.
Assumed Knowledge: Nil

EDUC6073 | Curricul and Teach Approaches Dual Sensory Disab
---|---
Units: 10 | Locations: Callaghan
Provides students with an introduction to the patterns of service provision and the range of educational approaches used with deaf/blind children in several countries, notably Great Britain, the United States, Canada, New Zealand, and Scandinavia.
Assumed Knowledge: Nil

EDUC6074 | Integration & Inclusion Students Sensory Disabi
---|---
Units: 10 | Locations: Callaghan
Provides a thorough overview of the theoretical models that influence special education practice in Australia and overseas for students with sensory disabilities and to investigate the significant factors involved in planning and implementing integrative and inclusive practices in a range of educational settings.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6075 | Family Support Early Intervention Sensory Disab
---|---
Units: 10 | Locations: Callaghan
Provides the knowledge and skills required for the effective implementation of early intervention programs and the empowerment of service consumers.
Contact hours: 2 hours per week
Assumed Knowledge: Nil

EDUC6076 | Seminar in Sensory Disability A
---|---
Units: 10 | Locations: Callaghan
Renwick College
Provides the opportunity for students to access the expertise of Visiting Research/Teaching Fellows within Renwick College.
This subject:
a. provides students with a comprehensive understanding of the issue, research literature and/or practical initiatives in a specific area of education for students who are Deaf or who have some sensory impairment.
b. develop students' skills in understanding and reporting reviews of literature and in applying research findings to educational practice with students in special education.
Contact hours: 2 hours per week
Assumed Knowledge: The subjects are designed as advanced coursework units at the 600 level for those students whose programs permit the option of elective studies. Students intending to enrol should have completed at least two introductory postgraduate coursework subjects in special education or have previously completed a postgraduate award in special education at this or another university.

EDUC6077 | Seminar in Sensory Disability B
---|---
Units: 10 | Locations: Callaghan
Renwick College
Provides the opportunity for students to access the expertise of Visiting Research/Teaching Fellows within Renwick College.
The subjects aim to:
(a) provide students with a comprehensive understanding of the issues, research literature and/or practical initiatives in a specific area of education for students who are Deaf or who have some sensory impairment.
(b) develop students’ skills in undertaking and reporting reviews of literature and in applying research findings to educational practice with students in special education.
Contact hours: 2 hours per week
Assumed Knowledge: The subjects are designed as advanced coursework units at the 600 level for those students whose programs permit the option of elective studies. Students intending to enrol should have completed at least two introductory postgraduate coursework subjects in special education or have previously completed a postgraduate award in special education at this or another university.

EDUC6078 | Foundation Studies in Behaviour Problems
---|---
Units: 10 | Locations: Callaghan
Distance Education - Callaghan
Introduces the broad spectrum of behaviour, why some behaviours are considered disorderly, what factors contribute to behaviour problems, specific types of behaviour problems, and what services are available to address the needs of students, staff and others.
Assumed Knowledge: Nil
EDUC6079 Assessment & Programming in Behaviour Problems
Units: 10
Locations: Distance Education - Callaghan
Explores the importance of a sound approach to implementing any behaviour change program. The need for adequate and appropriate data gathering as a basis for planning a procedure will be examined, followed by systematic implementation with both ongoing and review evaluation. The subject is based on a programming model of assessment, planning, implementation and evaluation.
Assumed Knowledge: Nil

EDUC6080 Intervention in Behaviour Problems
Units: 10
Locations: Distance Education - Callaghan
Provides knowledge and skills in the important area of behaviour management which is the basis of addressing behaviour change. The subject will examine a number of specific approaches to managing behaviour that reflects differing conceptual and practical approaches to managing behaviour. The other major objective of the subject is to introduce the importance of an action research model as a method of identifying and systematically addressing an issue that arises in the course of your work.
Assumed Knowledge: Nil

EDUC6081 Using Resources in Behaviour Problems
Units: 10
Locations: Distance Education - Callaghan
Focuses on the diversity of resources that can be utilised in meeting behavioural needs, as well as the consultative skills needed in working with students and staff. Students will be introduced to a range of resources and technologies, as well as sharing resources that they have identified as useful.
Assumed Knowledge: Nil

EDUC6082 Policy and Administration in Special Education
Units: 10
Locations: Callaghan
Central Coast
Examines policy and administration in special education including the development and implementation of policy and procedures, leadership skills, resource management, curriculum development, and program and financial management. Interpersonal skills and the ability to negotiate positive outcomes both for students with special needs and teachers will be examined in the context of special educators as potential change agents in the school. This subject is offered at both Callaghan and the Central Coast campuses.
Contact Hours: 2 hours per week
Assumed Knowledge: nil

EDUC6083 Communication Intervention
Units: 10
Locations: Distance Education - Callaghan
Provides a comprehensive introduction to the theory, research and implementation protocols which support the design and evaluation of communication interventions for individuals with moderate or severe disability.
Assumed Knowledge: Nil

EDUC6084 Com. Service Provision for People with Disability
Units: 10
Locations: Callaghan
This subject has two units. First, to examine contemporary community support services for individuals with a disability. Examples of these services include employment, recreation, accommodation and education services. Second, to develop an understanding of strategies of support and service models designed to facilitate the integration of people with a disability into the community.
Assumed Knowledge: Nil

EDUC6085 Education of Students with Learning Difficulties
Units: 10
Locations: Callaghan
Central Coast
Focuses on learning difficulties in the basic academic areas of reading, spelling, mathematics and study skills. The nature of skills deficits in each area will be discussed as well as the most common forms of intervention and methods of assessment. The course is both skills and research oriented with emphasis on ways of meeting individual student needs in regular class context.
Assumed Knowledge: nil

EDUC6086 Education of Students with Behaviour Problems
Units: 10
Locations: Callaghan
Central Coast
Examines theory and research on the continuum of behaviour problems from minor disturbing behaviours to emotional disturbance. The content will cover the range of settings in which behaviour problems can occur including the regular classroom and specialist settings. Specific behaviour disorders will be examined with emphasis on the relation between research and practice. This subject is offered at both Callaghan and the Central Coast campuses.
Assumed Knowledge: Nil

EDUC6087 Education of Students with Develop Disabilities
Units: 10
Locations: Callaghan
Central Coast
Examines current research on developmental disabilities. It is designed to increase students’ awareness of the causes and characteristics of a variety of disabilities, together with current approaches to service provision. Causes of disability, intellectual disability, sensory disabilities, physical disability and the communication needs of people with disabilities will be examined. Several specific disabilities will be studied in greater detail, and students will be expected to complete an in-depth study in one of these areas.
Assumed Knowledge: Two years relevant professional experience

EDUC6088 Teaching Methods & Techniques in Special Education
Units: 10
Locations: Callaghan
Provides an introduction to the range of instructional strategies available to educators working with students with special needs. Issues considered include the translation of research into practice, the relationship of emerging approaches to integration and inclusion, individualised, small and large group instruction, and the contribution of efficacy studies to the field.
Assumed Knowledge: nil

EDUC6089 Peer Mentoring in Primary School
Units: 10
Locations: Distance Education - Callaghan
This course aims to provide a theoretical context for the development of mentoring skills for primary school teachers. It will provide students with advanced skills in organising and implementing mentor programs for beginning and established primary school teachers.
Assumed Knowledge: Nil

EDUC6090 Current Issues in Special Education
Units: 10
Locations: Callaghan
Central Coast
Introduces some of the issues which have been the topic of discussion, debate and research in Special Education in recent years. Among issues dealt with will be policy development, normalisation, genetic engineering, euthanasia, staff training, psychopharmacology, abuse, aging and training issues. Students will be provided with readings and will be expected to prepare at least one paper which reflects an in-depth study of one of the topics being treated.
Assumed Knowledge: Nil

EDUC6091 Special Education Practicum
Units: 10
Locations: Callaghan
Central Coast
Conducted in a special education setting in which the student designs, implements and monitors several educational programs for children, adolescents or adults with special needs.
Assumed Knowledge: Nil

EDUC6092 Special Education Practicum 2
Units: 10
Locations: Callaghan
Central Coast
Conducted in a special education setting in which the student designs, implements, and monitors several educational programs for children, adolescents or adults with special needs.
Assumed Knowledge: Nil

EDUC6093 Introduction to Tertiary Teaching
Units: 10
Locations: Callaghan
This Subject provides a broad overview of the range of theoretical and practical considerations in designing, offering and reviewing tertiary courses.
Assumed Knowledge: Nil

EDUC6094 Tertiary Teaching Strategies
Units: 10
Locations: Callaghan
Drawing on research and theories of tertiary education and the Introduction to Tertiary teaching subject, this subject examines teaching and the ways in which it influences learning processes. During the subject students will consider the extent to which the method of teaching affects student motivation and educational outcomes. They will be encouraged to apply key principles to their own work and reflect on the experience.
Assumed Knowledge: Nil

EDUC6095 Assessment of Student Learning in Tertiary Courses
Units: 10
Locations: Callaghan
This subject introduces students to the principles and practices of assessment of students in tertiary courses.
Assumed Knowledge: Nil
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<th>Units</th>
<th>Title</th>
<th>Contact Hours</th>
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<td>10</td>
<td>EDUC6096 Evaluation of Tertiary Courses and Teaching</td>
<td>2 hours per week</td>
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<td>EDUC6108 Current Iss in Sec Schools</td>
<td>2 hours per week</td>
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<td>EDUC6111 Instructional Design in Problem Based Learning</td>
<td>2 hours per week</td>
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<td>10</td>
<td>EDUC6112 Educational Programming for stdnts with Low Vision</td>
<td>2 hours per week</td>
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EDUC6113 Advanced Theory & Practice Orientation & Mobility
Units: 10
Locations: Callaghan
In this course, candidates will examine the major issues and factors to be considered in delivering complex orientation and mobility services to people of all ages with varying needs. Attention will be given to the assessment of client needs and to formal orientation and mobility instruction skills. The subject will take a case management problem-solving approach and emphasise the acquisition of skills likely to be of direct benefit to the individual client and family.
This subject will complement, but not overlap with, the content in EDSD 622 Character Education and Mobility for Students with Vision Impairments, the introductory course in this specialty area.
A series of guest presentations made by professional orientation and mobility instructors will be included to strengthen participants' understanding of practical skills, techniques, and strategies for delivering orientation and mobility services.
Three hour lecture/tutorial per week.
Assumed Knowledge: Nil

EDUC6114 Comm Strategies for Sens & Multiple Disabilities
Units: 10
Locations: Callaghan
This course is designed to provide teachers with the knowledge and skills to enable them to understand the theoretical and practical approaches to developing communication strategies in students with sensory and multiple disabilities. Students will focus on the target group for this course are those with sensory impairments, for example: vision and deafness or a combination of both, and in addition, multiple disabilities including intellectual, and physical disabilities.
Candidates will consider the wide range of communication options available to such students and the design and development of individual communication programs. Assessment and teaching techniques for students functioning at preintentional or early linguistic levels of communication development are considered. A rationale for the use of augmentative communication systems is presented and critically analysed. A range of augmentative communication systems and programs are examined, as is the application of relevant communication support technology. The teacher's role in providing opportunities for communication and language growth is considered from the perspective of a transdisciplinary approach, in which the school community is involved in the development of successful communication patterns and strategies for students with sensory and multiple disabilities.
Candidates will critically analyse the role of assessment in the development and monitoring of individual educational plans for students with sensory and multiple disabilities. Candidates will gain an understanding of normal child development and examine the compounding effects of multiple disability including sensory, intellectual, physical disabilities. The role of formal and functional transdisciplinary assessment as it relates to students with sensory and multiple disabilities will be explored. This course will also examine the issues that affect the coordination of therapy, health care and educational services, and explore some practical strategies for planning and implementing services and supports. Candidates will gain insights into the policy, administrative guidelines and role delineation of service provision frameworks for students with sensory and multiple disabilities. Students will be introduced to the history and philosophy of oral-aural and auditory-verbal approaches to language learning. The course will focus upon an integrated (education-therapy) model for the development of functional, chronological age appropriate and future oriented programs for students with sensory and multiple disabilities in a range of settings including special school, special units and mainstreamed environments. Candidates will consider the wide range of communication options available to such students and the design and development of individual communication programs. Assessment and teaching techniques for students functioning at preintentional or early linguistic levels of communication development are considered. A rationale for the use of augmentative communication systems is presented and critically analysed. A range of augmentative communication systems and programs are examined, as is the application of relevant communication support technology. The teacher's role in providing opportunities for communication and language growth is considered from the perspective of a transdisciplinary approach, in which the school community is involved in the development of successful communication patterns and strategies for students with sensory and multiple disabilities.
Candidates will consider the role of language and communication skills as a basis for defining and developing a core auditory-verbal treatment plan. Candidates will also consider the comparative stages of development in normally hearing and auditory-verbal children. This course will be offered on campus and through distance learning.
Assumed Knowledge: Nil

EDUC6115 Transdisciplinary Assess Sensory & Multiple Disabilities
Units: 10
Locations: Callaghan
This course will examine the role of assessment in the development and monitoring of individual educational plans for students with sensory and multiple disabilities. Candidates will gain an understanding of normal child development and examine the compounding effects of multiple disability including sensory, intellectual, physical disabilities. The role of formal and functional transdisciplinary assessment as it relates to students with sensory and multiple disabilities will be explored. This course will also examine the issues that affect the coordination of therapy, health care and educational services and explore some practical strategies for planning and implementing services and supports. Candidates will gain insights into the policy, administrative guidelines and role delineation of service provision frameworks for students with sensory and multiple disabilities. Students will be introduced to the history and philosophy of oral-aural and auditory-verbal approaches to language learning. The course will focus upon an integrated (education-therapy) model for the development of functional, chronological age appropriate and future oriented programs for students with sensory and multiple disabilities in a range of settings including special school, special units and mainstreamed environments. Candidates will consider the wide range of communication options available to such students and the design and development of individual communication programs. Assessment and teaching techniques for students functioning at preintentional or early linguistic levels of communication development are considered. A rationale for the use of augmentative communication systems is presented and critically analysed. A range of augmentative communication systems and programs are examined, as is the application of relevant communication support technology. The teacher's role in providing opportunities for communication and language growth is considered from the perspective of a transdisciplinary approach, in which the school community is involved in the development of successful communication patterns and strategies for students with sensory and multiple disabilities.
Candidates will consider the role of language and communication skills as a basis for defining and developing a core auditory-verbal treatment plan. Candidates will also consider the comparative stages of development in normally hearing and auditory-verbal children. This course will be offered on campus and through distance learning.
Assumed Knowledge: Nil

EDUC6116 Transdisciplinary Approach Curr Imp Sens Mult Dis
Units: 10
Locations: Callaghan
This course will examine the ways that educators and professionals can adapt the educational environment to facilitate learning for students with sensory impairments who have additional multiple disabilities (particularly physical disabilities) and who require extensive or pervasive support. The course will focus upon an integrated approach to meeting students' educational needs. Emphasis is placed on the need for a variety of disciplines, including physical and occupational therapists, psychologists, audiologists, orthoptists and communication specialists who play a key role in the development and adaptation of the student's individualised educational plan. Issues associated with creating an appropriate learning environment through correct positioning, handling and facilitated movement will be explored. Adaptations to programming to support students? opportunities to learn will be examined. The curricular needs of the students will be presented and analysed across a range of learning environments including early childhood settings, special schools, mainstreamed settings and students in transition to post secondary education and training. Three hour lecture/tutorial per week.
Assumed Knowledge: Nil

EDUC6117 Authentic Integration Across Primary Curriculum
Units: 10
Locations: Distance Education - Callaghan
This course aims to provide a theoretical context for contemporary issues in authentic integration of the primary curriculum. It will provide students with advanced skills in the construction and maintenance of integrated programs and tasks in the K-6 context.
Assumed Knowledge: Nil

EDUC6118 Deaf Child in Family & School: Sign Lang Approach
Units: 10
Locations: Callaghan
The course considers the needs of families of children who are deaf and hearing impaired and the role of professionals in helping these families. Students will be introduced to the concept of family and adaptation in relation to the initial diagnosis of a hearing loss. The aims and rationale for early intervention services are considered as is the range and efficiency of a range of techniques, programs and procedures designed to facilitate family coping. There is a particular focus on a team approach to family involvement and support in both the early and school years. The development of signing skills by parents will be explored. This course examines the language learning situation of deaf students and introduces the concept of bilingualism and bimodalism.
Candidate are introduced to the concept of bilingualism as it applies to the case of a signed and spoken language and a range of potential models for bilingual educational programs are introduced (viz., transition, partial bilingualism and immersion). These models are considered from the perspective of the special case of signed and spoken languages. The assessment of bilingual language proficiency is considered in the context of strategies for optimising educational environments for language learning. Specifically, the course considers the role of literacy skill development in second language acquisition and diversity for students whose first language is a sign language.
Assumed Knowledge: EDSD614 Social, language and cultural studies in deafness and demonstrated competence in Auslan at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College course Auslan for Educators. Concurrent pursuit of a course of study in Auslan that will result in the development of skills to at least that level within the period of enrolment in the course.

EDUC6119 Deaf Child in Family & School: Spoken Lang Approach
Units: 10
Locations: Callaghan
This course considers the needs of families of children who are deaf and hearing impaired and the role of professionals in helping these families. Candidates will be introduced to the concept of family and adaptation in relation to the initial diagnosis of a hearing loss. The aims and rationale for early intervention services are considered as is the range and efficacy of a range of techniques, programs, and procedures designed to facilitate family coping. There is a particular focus on a team approach to family involvement and support in both the early and school years. Candidates are introduced to the history and philosophy of oral-aural and auditory-verbal approaches to teaching deaf students with impaired hearing. Audiological management of the auditory-oral child is considered in terms of hearing aid fitting and monitoring and the issues associated with cochlear implantation. The family's role in the development of communication skills is considered across the age range from initial diagnosis to the end of schooling. Candidates' knowledge of acoustic phonetics is extended and applied to the specific case of speech perception and speech production by students with impaired hearing. A range of procedures for evaluating auditory and speech abilities are considered and the impact of report writing and professional communication. Candidates will also consider the role of auditory-visual communication for students with impaired hearing and the assessment and development of speechreading skills.
Candidates will critically analyse auditory-verbal therapy techniques as a basis for defining and developing a core auditory-verbal treatment plan. Candidates will also consider the comparative stages of development in normally hearing and auditory-verbal children. This course will be offered on campus and through distance learning.
Three hour lecture/tutorial per week or equivalent in distance learning materials.
Assumed Knowledge: EDSD 611 Educational audiology, speech and auditory development.

EDUC6120 The Linguistics of Auslan
Units: 10
Locations: Callaghan
This unit aims to provide students with a knowledge of the linguistic fundamentals of sign languages and, in particular, of Australian Sign Language (Auslan). Three hour lecture/tutorial per week or equivalent in distance learning materials.
Assumed Knowledge: Demonstration of competence at a level equivalent to at least that stipulated by the assessment criteria for the Renwick College course Auslan for Educators 1.

EDUC6121 Intercultural Comm through English
Units: 10
Locations: Callaghan
This course develops students' understanding of the cultural elements affecting communication through English as an international language. Topics include discourse strategies depending on cultural values and misunderstanding due to the semantic difference of words and expressions. Colloquialisms, slang, and metaphors and other examples of cultural variations will also be examined.
Assumed Knowledge: Nil
EDUC6122 Language Testing in TESOL
Units: 10
Locations: Callaghan
This course develops an understanding of the fundamental concepts and principles in the design and management of assessment and evaluation in TESOL. The student will learn to design and develop assessment tasks that are curriculum-focused in order to evaluate learning outcomes and to improve their teaching.
Assumed Knowledge: Nil

EDUC6124 English for Special Purposes
Units: 10
Locations: Callaghan
This course develops student understanding of the different styles and contents of English used for commercial, professional and educational purposes as well as skills such as needs analysis and the designing of special curriculum to meet these needs.
Assumed Knowledge: Nil

EDUC6126 The Arts in Education
Units: 10
Locations: Callaghan
This subject will examine social, cultural and historical foundations of arts education, with particular emphasis upon the contribution the arts to human development. Selected current educational policies and educational theories/practices that are regarded as crucial to current teaching and learning in arts and design education will also be examined. Students will complete small research assignment as a means of developing research skills in arts education.
Assumed Knowledge: Appropriate undergraduate degree.

EDUC6127 Technology Education
Units: 10
Locations: Callaghan
This subject provides an overview of technology education. It is designed to introduce students to the policy, practicalities and research which underpins technology education. The subject 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 art and design education.
Assumed Knowledge: Appropriate base degree

EDUC6128 Issues in the Early Years of School
Units: 10
Locations: Callaghan
Explores contemporary issues related to the early years of school. Some of the topics included are: school entry age, effective transitions, learning communities in the school setting, innovative and alternative programs, parent involvement, curriculum and assessment, professional development issues and interprofessional relationships.
Assumed Knowledge: Nil

EDUC6129 Science Curriculum Studies 1
Units: 10
Locations: Callaghan, Off Campus
Builds on students' understandings of the responsibilities and obligations of belonging to the profession of science teaching. They will gain a critical understanding of science education and federal and state policy in this area. Students will understand the rationale and aims of the HSC Preliminary Physics syllabus in NSW while developing the skills to plan, implement and evaluate units of work in a secondary school context. They will gain a theoretical knowledge of and practical skills in the application of the science education methods in a physics context. Students will develop skills in the management of the major functions of physics lesson organisation and delivery to an acceptable level of competence.
Assumed Knowledge: 25

EDUC6130 Science Curriculum Studies 3
Units: 10
Locations: Callaghan
Builds on students' understandings of the responsibilities and obligations of belonging to the profession of science teaching. They will gain a critical understanding of science education and federal and state policy in this area. Students will understand the rationale and aims of the Science: Stages 4-5 and Stage 6 Senior Science syllabuses in NSW while developing the skills to plan, implement and evaluate units of work in a school context. They will gain a theoretical knowledge of and practical skills in the application of the science education methods in an integrated science context. Students will develop skills in the management of the major functions of science lesson organisation and delivery to an acceptable level of competence.
Assumed Knowledge: nil

EDUC6131 Science Curriculum Studies 4
Units: 10
Locations: Callaghan
Students will focus on the acquisition of knowledge, skills, values and attitudes related to the Stage 6 Physics, USC program. They will in addition consider standards-based assessment and the way it impacts on school internal USC evaluation schemes.
Assumed Knowledge: nil

EDUC6132 Supervision and Mentoring of Teachers
Units: 10
Locations: Callaghan
While many school teachers engage in supervision or mentoring of student teachers and other teachers, few have any training in these practices. This course will provide students with the opportunity to examine their own supervisory and/or mentoring practice on the basis of a strong theoretical understanding of issues involved in supervision and mentoring. The course will use flexible delivery in the form of IT and paper-based distance learning and by offering a range of assessment options.
Assumed Knowledge: Knowledge of teachers' work

EDUC6134 Psychoeducational Assessment
Units: 10
Locations: Callaghan
Students will develop their knowledge and skills in the area of psychological assessment, including testing. Students will critically evaluate issues surrounding this field of professional practice. Students will gain experience, through a supervised practicum, in the administration, scoring, interpretation and reporting of results of selected major psychological tests used in assessing intelligence, adaptive and functional behaviours, social skills and educational achievement.
Assumed Knowledge: Degree with a major in psychology.

EDUC6135 Counselling & Comm: Theories, Skills & Practice
Units: 10
Locations: Callaghan
The course has two concurrent Strands. Strand A introduces students to the major approaches and theories of counselling, including the psycho-dynamic, person-centred, existential, Gestalt, rational-emotive, reality therapy and other cognitive-behavioural approaches. Additionally, more contemporary theories such as Brief Therapy and Narrative Therapy will be discussed. Students are expected to integrate techniques from these approaches with the generic counselling skills acquired in the other strand of the course.
Assumed Knowledge: Degree with a major in psychology.

EDUC6136 Managing Disorders of Child & Adolescent Developm
Units: 10
Locations: Callaghan
Students will further their knowledge of child and adolescent development, exploring a range of disorders using a case study/working problem approach. Students will develop understandings of the diagnostic characteristics of these disorders, their impact on development and educational implications. Students will critically review treatment approaches for use in the school setting, and examine the professional role of school counsellors and develop an understanding of practices and procedures for managing support to children and adolescents in high risk populations.
Assumed Knowledge: Degree with a major in psychology.

EDUC6137 Approaches to Intervention in Counselling
Units: 10
Locations: Callaghan
This course extends on theories, skills and practice in counselling to include appropriate intervention techniques for anxiety, depression and substance/drug abuse. The focus will be on cognitive behavioural intervention strategies but will encourage an eclectic view of the issues.
Assumed Knowledge: Degree with major in Psychology.

EDUC6138 Advanced studies in educational psychology
Units: 10
Locations: Callaghan
This course provides an introduction to the area of behaviour problems including theories of behaviour and the management of behaviour problems in schools at individual, class and school management levels. It also introduces theories and educational services to students with intellectual disabilities and particularly those with both challenging behavioural needs and intellectual disability.
Assumed Knowledge: Degree with a major in Psychology.

EDUC6139 Ethical, Legal and Professional Aspects
Units: 10
Locations: Callaghan
This subject commences with an overview of philosophical ethics as a grounding for a more specific consideration of the notion of professional ethics. In the face of the fact that philosophers have not produced unequivocal accounts of “good” and “evil”, various formal codes have emerged to guide professional practice, as well as legal statutes that seek to regulate that practice in the interests of “the public.” In turn, a body of case law has developed, interpreting those codes and statutes. Further, professional practice has its own internal dimensions turning the stresses of life and work that can strain their professionalism. This subject critically examines all of these last matters, focusing real-world contexts of counselling practices.
Assumed Knowledge: Degree with a major in psychology.
EDUC6140 Teaching Better in the Primary School
Units: 10
Locations: Distance Education - Callaghan
This course aims to provide a theoretical context for contemporary issues in pedagogy in the K-6 context. It will provide students with advanced pedagogical skills to support effective student learning.
Assumed Knowledge: Nil

EDUC6141 Science Curriculum Studies 2 (Prelim Chemistry)
Units: 10
Locations: Callaghan
Builds on students’ understandings of the responsibilities and obligations of belonging to the profession of science teaching. They will gain a critical understanding of science education and federal and state policy in this area. Students will understand the rationale and aims of the HSC Preliminary Chemistry syllabus in NSW while developing the skills to plan, implement and evaluate units of work in a school context. They will develop skills in the management of the major functions of Chemistry lesson organisation and delivery to an acceptable level of competence.
Assumed Knowledge: Nil

EDUC6142 Science Curriculum Studies 5 (HSC Chemistry)
Units: 10
Locations: Callaghan
Students will focus on the acquisition of knowledge, skills values and attitudes related to the Stage 6 Chemistry, HSC program. They will in addition consider standards-based assessment and the way it impacts on school internal HSC evaluation schemes.
Assumed Knowledge: Nil

EDUC6143 Science Curriculum Studies 6
Units: 10
Locations: Callaghan
Builds on students understandings of the responsibilities and obligations of belonging to the profession of science teaching. They will gain a critical understanding of science education and federal and state policy in this area. Students will understand the rationale and aims of the Biology and Earth & Environmental Science syllabi in NSW while developing the skills to plan, implement and evaluate units of work in a school context. They will gain a theoretical knowledge of and practical skills in the application of the science education methods in an environmental science context. Study will develop skills in the management of the major functions of science lesson organisation and delivery to an acceptable level of competence.
Assumed Knowledge: Nil

EDUC6144 History and the Social Sciences
Units: 10
Locations: Distance Education - Callaghan
This course is directed towards primary and secondary history teachers. It aims to provide an understanding of the historical context for changes in the position of the study of History in the Social Sciences/Studies of Society and Environment area of the curriculum. It provides an opportunity for history teachers to develop programs in history within a SOSE framework.
Assumed Knowledge: Nil

EDUC6145 Teaching Historical Skills
Units: 10
Locations: Distance Education - Callaghan
This course is directed towards primary and secondary history teachers. It aims to provide a theoretical context for teaching the development of historical skills. It will provide students with advanced skills in organising and implementing historical skills-based teaching programs.
Assumed Knowledge: Nil

EDUC6150 Boys and Classroom Practice
Units: 10
Locations: Distance Education - Callaghan
The course assists teachers to examine their own ideas about boys and learning, and their own classroom practice and assessment strategies in relation to boys’ learning needs. Theoretical and practical knowledge of multiple intelligences, teaching and learning styles and classroom organisation and assessment approaches will be critically analysed. Case studies from primary, middle school and senior secondary will be examined.
Assumed Knowledge: Nil

EDUC6151 Action Learning in Educating Boys 1
Units: 10
Locations: Distance Education - Callaghan
The course introduces an action learning/reflective practice model for small-scale investigation of an issue in a school context. It enables students to develop a proposal for conducting an investigation of an identified issue of concern in education boys in their school context, using the model of action learning or reflective practice.
Assumed Knowledge: Nil

EDUC6152 Action Learning in Educating Boys 2
Units: 10
Locations: Callaghan
The course uses an action learning/reflective practice model for small-scale investigation of an issue in a school context. It enables students to conduct an investigation of an identified issue of concern in educating boys in their school context, using the model of action learning or reflective practice.
Assumed Knowledge: Nil

EDUC6153 Boys and Literacies
Units: 10
Locations: Distance Education - Callaghan
Current information on boys and literacies in Australia and internationally will be examined. Boys’ reading preferences and habits and literacy results will be investigated. The course will involve a discussion of boys learning styles in literacy and a range of reading approaches and programs will be reviewed. There will be a discussion of multi-literacies and approaches including computer literacies, visual literacies and the use of a range of practical skills in the application of the science education methods in a literacy context. Students will be encouraged to develop/implement strategies and programs to successfully engage boys in literacies.
Assumed Knowledge: Nil

EDUC6154 Meeting the Academic and Social Needs of Boys
Units: 10
Locations: Distance Education - Callaghan
Strategies, programs and approaches for teachers and schools to enable boys to meet their academic and social needs within a positive male identity will be examined. The course will examine a range of programs and approaches that make the link between boys’ social needs and their academic performance. Students will critically examine programs and approaches to the academic and social needs of boys. Programs that assist boys to develop appropriate behaviours and successful academic outcomes through a positive approach to male identity will be examined.
Assumed Knowledge: Nil

EDUC6200 Productive Classroom Practice
Units: 10
Locations: Distance Education - Callaghan
This course introduces students to the research and development literature on Authentic and Productive forms of pedagogy. In particular, the course will outline major dimensions of classroom practice that have been identified in recent research as contributing to greater and more equitable student learning outcomes. In addition, the course will engage students in direct experiences of analysing their own and others’ classroom practice using these concepts. The course will be delivered in a flexible mode combining an intensive face-to-face component with distance facilitation of student-centred learning by on-line discussion and email communication.
Assumed Knowledge: Nil

EDUC6201 Productive Assessment
Units: 10
Locations: Distance Education - Callaghan
This course introduces students to the research and development literature on Authentic and Productive forms of assessment. In particular, the course will outline major forms of assessment that have been identified in recent research as assisting the promotion of more intellectually challenging and relevant student learning. As part of this course, students will be introduced to recent developments in performance-based assessment and an analysis of the relationship between productive assessment and current state-based assessment procedures. In addition, the course will engage students in direct experiences of analysing their own and others’ assessment practices and student work. The course will be delivered in a flexible mode combining an intensive face-to-face component with distance facilitation of student-centred learning by on-line discussion and email communication.
Assumed Knowledge: Nil

EDUC6202 Productive Curriculum
Units: 10
Locations: Distance Education - Callaghan
This course introduces students to the research and development literature on Authentic and Productive forms of curriculum. In particular, the course will outline major curricular practices that have been identified in recent research as contributing to greater and more equitable student learning outcomes. As part of this course, students will be introduced to recent developments in how curriculum is understood and practised and an analysis of the relationship between authentic curriculum and current state-based curriculum developments. In addition, the course will engage students in direct experiences of analysing their own and others’ curriculum practices using these concepts. The course will be delivered in a flexible mode combining an intensive face-to-face component with distance facilitation of student-centred learning by on-line discussion and email communication.
Assumed Knowledge: Nil
EDUC6203 Productive Teacher Learning
Units: 10
Locations: Distance Education - Callaghan
This course introduces students to the research and development literature on the relationship between Authentic and Productive approaches to teaching and teachers' professional learning. In particular, the course will examine the literature on professional development and explore implications of productive and authentic models of teaching. As part of this course, students will be introduced to recent attempts to improve the quality of teaching practice using productive and authentic models of teaching. In addition, the course will assist students to identify strategies that could be used in implementing productive and authentic approaches in their own work. The course will be delivered in a flexible mode combining an intensive face-to-face component with distance facilitation of student-centred learning by on-line discussion and email communication.
Assumed Knowledge: Knowledge of Productive Pedagogy

EDUC6706 Practicum 1
Units: 10
Locations: Callaghan
Provides preservice teachers with the opportunity to engage in new learning and teaching that cannot be achieved in an academic setting. Preservice teachers will engage in a process of developing competence in planning, teaching, assessing, evaluating, reflecting and managing learning in school settings.
Assumed Knowledge: Diploma in Education students are assumed to have discipline knowledge sufficient to plan lessons and lesson activities, assess learning, and answer questions from pupils in schools relating to that discipline knowledge.

EDUC6707 Practicum 2
Units: 10
Locations: Callaghan
Provides preservice teachers with the opportunity to engage in new learning and teaching that cannot be achieved in an academic setting. Preservice teachers will engage in a process of developing competence in planning, teaching, assessing, evaluating, reflecting and managing learning in school settings.
Assumed Knowledge: Diploma in Education students are assumed to have discipline knowledge sufficient to plan lessons and lesson activities, assess learning, and answer questions from pupils in schools relating to that discipline knowledge. Diploma in Education students are assumed to have satisfactorily completed Practicum 1.

EDUC6709 Teaching Practices Art
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for visual arts classes 7-12. An examination of visual arts syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE471

EDUC6710 Teaching Practices English
Units: 10
Locations: Callaghan
Provides background knowledge of a range of teaching strategies appropriate for English classes in years 7-12. An examination of appropriate syllabus documents including specific outcomes, approaches to assessment and programming is also included.
Assumed Knowledge: Discipline knowledge and Foundations in Teaching

EDUC6711 Teaching Practices History
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for history classes 7-12. An examination of history syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Assumed Knowledge: Discipline knowledge and EDUC4028 or EDUC4031

EDUC6712 Teaching Practices Mathematics
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for mathematics classes 7-12. An examination of mathematics syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Assumed Knowledge: Discipline knowledge and EDUC6727

EDUC6713 Teaching Practices - Modern Languages
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for LOTE classes 7-12. An examination of LOTE syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Assumed Knowledge: None

EDUC6714 Teaching Practices Drama
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for drama classes 7-12. An examination of drama syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Assumed Knowledge: Discipline Knowledge Foundations in Teaching or equivalent

EDUC6715 Teaching Practices Science
Units: 10
Locations: Callaghan
Focuses on teaching strategies which can be used in science classrooms in the high school. Both teacher-centered and student-centered approaches will be examined and applications investigated.
Assumed Knowledge: Discipline knowledge and EDUC6728

EDUC6716 Teaching Practices Social Sciences
Units: 10
Locations: Callaghan
Provides background knowledge and some practical application in using a range of teaching strategies appropriate for Social Science classes 7-12. An examination of syllabus documents will also assist students to become familiar with specific outcomes, approaches to assessment and preparing a supportive learning environment.
Assumed Knowledge: Discipline knowledge and EDDE479

EDUC6717 Teaching Practices-Technology Education
Units: 10
Locations: Callaghan
Provides background knowledge in using a range of teaching strategies appropriate for technology and applied studies classes in years 7-12. An examination of TAS syllabus documents will also assist students’ knowledge of outcomes, approaches to assessment and planning for learning.
Assumed Knowledge: Discipline knowledge in a TAS area

EDUC6718 Curriculum Studies in Visual Arts
Units: 10
Locations: Callaghan
Develops knowledge of the issues that inform policies and practices in the Visual Arts Key Learning Area (KLA). The course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and evaluate them.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE471

EDUC6719 Curriculum Studies in English
Units: 10
Locations: Callaghan
Develops knowledge of the issues that inform policies and practices in the English Key Learning Area (KLA) including knowledge of NSW Board of Studies documents for Years 7-12.
Assumed Knowledge: Discipline knowledge and EDUC4027

EDUC6720 Curriculum Studies in History
Units: 10
Locations: Callaghan
Develops knowledge of the issues that inform policies and practices in the History Key Learning Area (KLA). The course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and evaluate them.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE473

EDUC6721 Curriculum Studies in Social Science
Units: 10
Locations: Callaghan
Develops knowledge of the issues that inform policies and practices in the Social Sciences Key Learning Area (KLA). The course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and evaluate them.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE479

EDUC6722 Curriculum Studies in Mathematics
Units: 10
Locations: Callaghan
Develops knowledge of the issues that inform policies and practices in the Mathematics Key Learning Area (KLA). The course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and evaluate them.
Contact hours: 3 hours per week
Assumed Knowledge: Discipline knowledge and EDDE474
EDUC6723  Curriculum Studies in Science  
Units: 10  
Locations: Callaghan  
Develops knowledge of the issues that inform policies and practices in the Science Key Learning Area (KLA). The course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and develop assessment strategies.  
Assumed Knowledge: Discipline knowledge and EDUC4030

EDUC6724  Foundations in Teaching Visual Arts  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the Visual Arts Key Learning Area.  
Contact hours: 3 per week  
Assumed Knowledge: Completion of a degree with a major in Visual Arts recognised by NSW Department of Education and Training

EDUC6725  Foundations in Teaching English  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the English Key Learning Area.  
Contact hours: 3 hours per week  
Assumed Knowledge: Completion of a degree with a major in English recognised by NSW Department of Education and Training

EDUC6726  Foundations in Teaching History  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the History Key Learning Area.  
Contact hours: 3 hours per week  
Assumed Knowledge: Completion of a degree with a major in History recognised by NSW Department of Education and Training

EDUC6727  Foundations in Teaching Mathematics  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the Mathematics Key Learning Area.  
Assumed Knowledge: Completion of a degree with a major in Mathematics recognised by NSW Department of Education and Training.

EDUC6728  Foundations in Teaching Science  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the Science Key Learning Area.  
Assumed Knowledge: Completion of a degree with a relevant major in Science recognised by NSW Department of Education and Training.

EDUC6729  Foundations in Teaching Social Science  
Units: 10  
Locations: Callaghan  
Develops skills in planning, communication, observation and lesson preparation within the Social Science Key Learning Area.  
Contact hours: 3 hours per week  
Assumed Knowledge: Completion of a degree with a major in Social Science.

EDUC6733  Adult Teaching and Learning  
Units: 10  
Locations: Callaghan  
Designed to provide teachers, trainers, or training administrators with an understanding of adult learning principles, and a range of teaching strategies which encourage adults to learn effectively. It will draw on the participant’s experience as a learner/teacher/trainer and allow them to reflect on the values and assumptions which underpin their teaching practice.  
Assumed Knowledge: Nil

EDUC6735  Learners, Learning and Teaching  
Units: 10  
Locations: Callaghan  
Examines theories of educational psychology as they pertain to teaching. Provides opportunities for students to develop knowledge and understanding of learners and the learning process and their implications for educational planning and practice.  
Contact hours: 3 hours per week equivalent online  
Assumed Knowledge: Undergraduate degree

EDUC6738  Teaching Practices K-6 English  
Units: 10  
Locations: Callaghan  
Designed to develop students’ understanding of the nature of language and literacy and how children learn to be effective language and literacy users. This course provides students with the opportunity to interpret syllabus documents for Years 7-12, create innovative program designs and develop assessment strategies.  
Assumed Knowledge: Discipline knowledge and EDUC6723

EDUC6739  Teaching Practices in K-6 Mathematics  
Units: 10  
Locations: Callaghan  
This course provides students with the understanding, skills and processes necessary to teach effectively in a primary school. It will introduce concepts for needs analysis, unit planning, teaching, assessment and evaluation in the four strands of the NSW Mathematics K-6 Syllabus: Space, Measurement, Number and Working Mathematically.  
Assumed Knowledge: An Undergraduate Degree or equivalent

EDUC6740  Teach Students with Spec Needs in Diverse Contexts  
Units: 10  
Locations: Callaghan  
Introduces issues and practices relating to teachers’ integration and inclusion of students with special needs within the social context of the school.  
Assumed Knowledge: Nil

EDUC6741  Literacies Across the Secondary Curriculum  
Units: 10  
Locations: Callaghan  
This course addresses issues of understanding the learning process for literacy, individual differences in learning and pedagogical principles. It also provides skills and awareness in the areas of computer literacy and civic activities.  
Assumed Knowledge: Nil

EDUC6800  Teach Prac in Science and HSIE  
Units: 10  
Locations: Callaghan  
This course will develop students’ knowledge and skills essential for delivery of the NSW K-6 Science & Technology Syllabus and the NSW K-6 Human Society and its Environment Syllabus. Students will consider the rationale of the syllabuses, develop lesson and unit plans suitable for a particular syllabus (using knowledge of teaching and assessment procedures introduced in this course), and gather resources that will help them to teach these syllabuses.  
Assumed Knowledge: Nil

EDUC6801  Teach Prac in K-6 Creative Arts & PDHPE  
Units: 10  
Locations: Callaghan  
This course is designed to develop students’ understanding of the ways in which children learn in the Creative Arts and the PDHPE learning areas.  
Assumed Knowledge: Nil

EDUC6802  Language and Literacy in the Primary Curriculum  
Units: 10  
Locations: Distance Education - Callaghan  
This course aims to provide a theoretical context for contemporary issues in the acquisition and development of skills in language and literacy. It will provide students with advanced skills in planning for effective teaching of language and literacy through a functional model.  
Assumed Knowledge: Undergraduate degree in Education

EDUC6803  Assessment in Primary School  
Units: 10  
Locations: Distance Education - Callaghan  
This course aims to provide a theoretical context for contemporary issues in assessment. It will provide students with advanced skills in organising and implementing a variety of assessment tasks within the primary school context.  
Assumed Knowledge: Nil

EDUC6899  Introduction to Community Language Teaching  
Units: 10  
Locations: Distance Education - Callaghan  
The aims of this course are to provide students with requisite background knowledge and practical application procedures that will allow them to become competent practitioners within community language schools. Knowledge of learner procedures in acquiring a second language will be presented in tandem with teaching methodologies that best suit those procedures within the language context. Students enrolled in the course will be expected to demonstrate both knowledge of the learning procedures and skills in facilitating language learning. The principal form of delivery will be by distance mode, largely paper-based.  
Assumed Knowledge: Facility in a community language.
ELEC1300  Electrical Engineering 1
Units: 10
Locations: Callaghan
Central Coast
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.
Assumed Knowledge: none

ELEC1700  Computer Engineering 1
Units: 10
Locations: Callaghan
Central Coast
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.
Assumed Knowledge: Nil

ELEC1800  Introduction to Engineering Practice
Units: 10
Locations: Callaghan
This subject is available to students employed full-time in the current calendar year in an appropriate technical position.
Assumed Knowledge: Nil

ELEC1900  Industrial Experience
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This subject is available to students employed full-time in the current calendar year in an appropriate technical position.
Assumed Knowledge: Nil

ELEC1950  Industrial Experience
Units: 5
Locations: Callaghan
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.
Assumed Knowledge: Nil

ELEC2120  Sensors and Actuators
Units: 10
Locations: Callaghan
PSB Singapore
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
Units: 10
Locations: Callaghan
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 PHYS2130.
Assumed Knowledge: ELEC1300, ELEC1700 and (PHYS1120 or PHYS1140)

ELEC2220  Electrical Circuits
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
PSB Singapore
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
Assumed Knowledge: MATH1120

ELEC2500  Introduction to Telecommunications
Units: 10
Locations: Callaghan
PSB Singapore
Introduces an introduction to the telecommunications area. The objectives include: familiarity with the technologies involved in modern telecommunications systems; quantitative understanding of basic concepts of communications; hands-on experience with of telecommunication equipment. Topics include: bandwidth and information capacity; amplitude and frequency modulation; decibels; wireline and wireless communications; fibre optics; digital modulation; the telephone system; local and wide area networks; cellular telephone systems.
Not to count for credit with the subject ELEC3510
Assumed Knowledge: ELEC1300 and MATH1110

ELEC2700  Computer Engineering 2
Units: 10
Locations: Callaghan
Develops the principles and practice of digital systems engineering necessary in electrical and computer engineering.
The content is in two sections. The first section covers digital design, including and introduction to the VHDL hardware description language. The second section covers microprocessor interfacing and assembly language programming.
Assumed Knowledge: ELEC1700

ELEC2800  Project/Directed Reading
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: nil

ELEC3100  Electricity Utilization
Units: 10
Locations: Callaghan
PSB Singapore
Not to count for credit with the course ELEC231.
Analyzes 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.
Assumed Knowledge: ELEC2120

ELEC3210  Instrumentation Electronics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ELEC2200 and ELEC2320
ELEC3230 Switching Electronics
Units: 10
Locations: Callaghan
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 lines, 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 introduces the operation of the standard topologies in a variety of applications.
Not to count for credit with the subjects ELEC3150 or ELEC3220.
Assumed Knowledge: ELEC2200 AND ELEC2250

ELEC3400 Signal Processing
Units: 10
Locations: Callaghan
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 ELEC3410.
Assumed Knowledge: ELEC2400, MATH2420

ELEC3500 Telecommunications Networks
Units: 10
Locations: Callaghan
Provides an introduction to the network principle techniques of designing, implementing, and analysing telecommunications 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.
Assumed Knowledge: ELEC2500

ELEC3520 Analog and Digital Communications
Units: 10
Locations: Callaghan
Initially provides a background on random signal theory; introduces PCM, both ideal and practical schemes; baseband transmission of digital signals, pulse shaping, intersymbol interference, scrambling using PN sequences, bit error rate; optimum detection of signals, matched filters; introduction to digital modulation, QPSK, bandwidth, carrier and symbol timing recovery; information theory and its relevance to source coding (compression) and channel capacity; compression techniques for facsimile, speech and video; error control coding, block codes and convolutional codes, encoding and decoding
Assumed Knowledge: ELEC2400, MATH2420

ELEC3710 Microprocessor Systems
Units: 10
Locations: Callaghan
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
Assumed Knowledge: ELEC2700

ELEC3720 Programmable Logic Design
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ELEC2700

ELEC3830 Engineering and Project Management
Units: 10
Locations: Callaghan
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, team relations, and the legal environment of engineering. Basic financial analysis methods are also covered.
Not to count for credit with the subjects ELEC3820 or MECH4820.
Assumed Knowledge: Second year of an engineering degree

ELEC3850 Introduction to Electrical Engineering Design
Units: 10
Locations: Callaghan
To provide a vehicle where students are required to integrate & extend the knowledge gained through their studies
The devices developed 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 products might include: (i) An exercise bike with regeneration into the AC mains; (ii) A simplified multibus wireless telephone system; (iii) a “umo” robot.
Assumed Knowledge: 2nd year of either Electrical, Computer or Telecommunications Engineering.

ELEC4100 Electrical Systems
Units: 10
Locations: Callaghan
Addresses the operation and behaviour of electric power systems. Topics covered include: system analysis, expansion studies, risk and contingency planning, transmission equipment and operation, fault studies and energy economics.
Not to count for credit with ELEC4110, ELEC4130 or ELEC4140.
Assumed Knowledge: ELEC3100

ELEC4210 Electronics Design
Units: 10
Locations: Callaghan
Builds on material from ELEC3210 to more advanced analog electronics.
Approximately 50% of the subject is based on a small group project, where design, testing and construction of an electronic circuit is required.
Assumed Knowledge: ELEC2510

ELEC4400 Automatic Control
Units: 10
Locations: Callaghan
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; non-ideal factors (saturation and slew rate limits); cascade and feedforward control; introduction to digital control systems; programmable logic controllers (PLCs)
Assumed Knowledge: MATH2023 AND (ELEC2420 OR MECH235)

ELEC4410 Control Systems Design
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: ELEC4400

ELEC4500 Advanced Telecommunications
Units: 10
Locations: Callaghan
Not to count for credit with ELEC4450 or ELEC4550.
Commences with signal processing techniques used in communications, adaptive filters, equalization, echo and noise cancellation, use of FFT for modulation, OFDM, optimal decoding, MAP and ML decoders; forward error control, cyclic codes, algebraic deconding, iterative decoding, turbo codes; advanced digital modulation systems; QAM, continuous phase modulation, power spectrum, bit error rate performance; advanced source coding; linear predictive coding, CELP, speech coding for GSM, image and video coding, JPEG, MPEG; broadband networks, VDSL, introduction to fixed wireless access
Assumed Knowledge: ELEC3400, ELEC3500, ELEC3520

ELEC4700 Advanced Computer Systems
Units: 10
Locations: Callaghan
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
Assumed Knowledge: ELEC3720

ELEC4710 Real-Time Systems
Units: 10
Locations: Callaghan
Introduces students to concepts in real time, multi-tasking operating systems. Topics covered include tasks, multi-tasking, semaphore, critical sections, task management, operating system priorities, intertask communications, device drivers and file systems.
Not to count for credit with the subject ELEC4600.
Assumed Knowledge: ELEC3710
ELEC4800A Electrical Engineering Project - Part A
Units: 10
Locations: Callaghan
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: 3rd year of the Computer Engineering degree

ELEC4800B Electrical Engineering Project - Part B
Units: 20
Locations: Callaghan
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: 3rd year of Electrical Engineering degree

ELEC4850A Computer Engineering Project - Part A
Units: 10
Locations: Callaghan
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: 3rd year of the Computer Engineering degree program

ELEC4850B Computer Engineering Project - Part B
Units: 20
Locations: Callaghan
This course 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: 3rd year of the Computer Engineering degree program

ELEC4890A Telecommunications Engineering Project - Part A
Units: 10
Locations: Callaghan
This course 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: 3rd year of a telecommunications engineering degree

ELEC4890B Telecommunications Engineering Project - Part B
Units: 20
Locations: Callaghan
This course 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: 3rd year of a telecommunications engineering degree

ELEC6210 Electronics Design
Units: 10
Locations: Callaghan
Advanced topics in linear and non-linear analog circuit design and construction including principles of high frequency design.
Assumed Knowledge: ELEC3210 or its equivalent at another institution.

ELEC6400 Signal Processing
Units: 10
Locations: Callaghan
Fundamentals of modern digital signal processing theory and practice with an emphasis on linear filtering applications.
Assumed Knowledge: ELEC6410 or its equivalent at another institution.

ELEC6410 Signals and Systems
Units: 10
Locations: Callaghan
Fundamental and advanced principles in the modelling and analysis of dynamic systems including an introduction to software simulation tools.
Contact hours: 6 hours per week
Assumed Knowledge: Undergraduate Engineering Mathematics.

ELEC6430 Automatic Control
Units: 10
Locations: Callaghan
Fundamental principles of feedback and feed-forward control system design and implementation including principles of digital control.
Assumed Knowledge: ELEC6400 or its equivalent at another institution.

ELEC6440 Advanced Control System Design
Units: 10
Locations: Callaghan
Advanced theory and practice of feedback control system design including topics from multivariable, optimal, and robust control.
Assumed Knowledge: ELEC6430 or its equivalent at another institution.
ELEC6500 Principles of Telecommunications
Units: 10
Locations: Callaghan
Provides an introduction to the telecommunications area. The objectives include: familiarity with the technologies involved in modern telecommunications systems; quantitative understanding of basic concepts of communications; hands-on experience with telecommunications equipment. Topics include bandwidth and information capacity; amplitude and frequency modulation; decibels; wireline and wireless communications; fibre optics; digital modulation; the telephone system; locak and wide area networks; cellular telephone systems.
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 2 unit mathematics OR equivalent

ELEC6510 Telecommunication Networks
Units: 10
Locations: Callaghan
Develops the techniques needed to analyse, design and implement various types of communications networks, including multimedia networks, used in modern communications systems.
Assumed Knowledge: ELEC6500

ELEC6700 Introduction to Computer Systems
Units: 10
Locations: Callaghan
This course is available as a web-learn trimester 3 course as well as a Semester 2 on-campus course. 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-disc drives, CD-ROM technology, and the basic functions of a microprocessor. The course 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.
Assumed Knowledge: NIL

ELEC6740 Microprocessor systems
Units: 10
Locations: Callaghan
Principles and practice of microprocessor system hardware design and software implementation for embedded systems.
Assumed Knowledge: ELEC6720 or its equivalent at another institution.

ELEC6750 Programmable Logic Design
Units: 10
Locations: Callaghan
Principles and practice of advanced digital logic design and implementation via field programmable gate arrays (FPGA’s).
Assumed Knowledge: ELEC6720 or its equivalent at another institution

ELEC6760 Real-Time Systems
Units: 10
Locations: Callaghan
Fundamental and advanced knowledge of operating system design with an emphasis on real-time systems in embedded applications.
Assumed Knowledge: ELEC6740 or its equivalent at another institution, experience in computer programming

ELEC6830 Engineering and Project Management
Units: 10
Locations: Callaghan
Advanced topics in management environment in engineering and project management
Assumed Knowledge: There is no prerequisite for this subject

ELEC6940 Industrial Systems Project
Units: 20
Locations: Callaghan
A major design and/or analysis project culminating in a thesis-format report.
Assumed Knowledge: 60 credit points of postgraduate coursework subjects

ELEC6940A Industrial Systems Project A
Units: 10
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
A major design and/or analysis project culminating in a thesis-format report.
Assumed Knowledge: 60 credit points of postgraduate coursework subjects

ELEC6940B Industrial Systems Project B
Units: 10
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
Assumed Knowledge: 60 credit points of postgraduate coursework subjects.

EMGT1020 Social Development and the Environment
Units: 10
Locations: Callaghan
Not to count with SRM1020.
This is the first course in a sequence that cover the ‘social’ dimensions of environmental issues and the human dimension of environmental management. The course 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, natural heritage and sustainability are also introduced to assist in the evaluation of those parts of nature and culture that are deemed worthy of preservation/conservation.
Assumed Knowledge: NIL

EMGT2020 The Sustainable Society
Units: 10
Locations: Callaghan
Sustainability has become one of the keywords of the twenty first century. Its influence in environmental and social policy has increased despite a great deal of disagreement over what the concept means. In this course, the definitions and meanings of sustainability, sustainable development and ecologically sustainable development (ESD) shall be gleaned from key international and national texts and subjected to critical review. In addition, the historical context for sustainability shall be examined, including the ‘limits to growth’ debates in the C20. The ethical components of ESD shall be examined and applied to the main sectors of society and development. The politics of achieving a sustainable society is studied as part of the understanding of how the goal of sustainability can be achieved through the process of ESD. Green political thought at national and international levels is historically and critically evaluated as a vital component of this course.
Assumed Knowledge: EMGT1020 or GEOG1020 are recommended.

EMGT2050 Australian Fauna
Units: 10
Locations: Callaghan
Being able to identify living organisms and to understand their functional role and interrelationships is the basis of all ecosystem studies. This course introduces students to the breadth of diversity of the Australian fauna and investigates its 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. An emphasis is also placed on the applied aspects of habitat and fauna assessments in the field.
Assumed Knowledge: BIOL1010, BIOL1020 or BIOL1110, BIOL1120.

EMGT3030 Conservation Biology
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: EMGT2030 and BIOL2070

EMGT3070 Advanced Studies in Sustainability
Units: 10
Locations: Callaghan
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), complex system and sustainability, indicators of sustainability, consumption and sustainability, eco-design, eco-industrialism and specific case studies both in less and more developed countries.
This course is part of the major stream of Environmental Management within the Bachelor of Environmental Science. It completes the sequence of subjects that takes through the ‘social’ aspects of environmental issues over three years delivering a more sophisticated theoretical framework and applying it to strategically important domains.
Assumed Knowledge: EMGT2030 and ENV2020 are recommended.
EMGT3090A Environmental Management Placement Study (Part A)
Units: 10
Locations: Callaghan
This subject is Part A of a multi-term sequence. Part B must also be completed in consecutive semesters 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: A major in the appropriate sub-discipline with an minimum of results.

EMGT3090B Environmental Management Placement Study (Part B)
Units: 10
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B in the consecutive semester.
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
Units: 10
Locations: Callaghan
Contamination of soil and water may result from a variety of human activities, for example urban, industrial and agricultural development. The potential and actual impacts of contamination from these activities on natural ecosystems, and the resultant need for remediation are in many cases well documented. This course will introduce the subject of soil and water pollution from a wide range of sources and examine the mobility of contaminant constituents in soil and water ecosystems. Different remediation technologies and strategies to overcome the resultant environmental problems will be examined in relation to urban agricultural and industrial landscapes.
Assumed Knowledge: GEOG2040/2050

EMGT4110 Environmental Management Honours 4110
Units: 20
Locations: Callaghan
Forms part of the Honours Program (along with EMGT4120, EMGT420 and EMGT4220) 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.
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average.

EMGT4120 Environmental Management Honours 4120
Units: 20
Locations: Callaghan
The Honours Program in Environmental Management produces students of the highest standing for securing future research and other career pathways. The subject (along with EMGT4110, EMGT4210 and EMGT4220) 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.
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average.

EMGT4220 Environmental Management Honours 4220
Units: 20
Locations: Callaghan
The Honours Program in Environmental Management produces students of the highest standing for securing future research and other career pathways. The subject (along with EMGT4110, EMGT4210 and EMGT4220) 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.
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average.

EMGT6010 Ecological Sustainable Development
Units: 10
Locations: Callaghan
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), important and exporting unsustainability, indicators of sustainability, population, consumption and sustainability, eco-design, eco-industrialism and specific case studies in sustainable resource management.
Assumed Knowledge: The subject will be open to students accepted into the Graduate Certificate Masters in Social Change and Development.
ENGL1010 Introduction to Medieval Literature
Units: 10
Locations: Callaghan
This subject considers writing in various genres from the English Middle Ages, including epic, elegy, romance in verse and prose, devotional prose, chronicle, the Chaucerian fabliau and the beast fable. Texts range from the early epic Beowulf, with its bleak world-view mitigated by deeds of heroism, to Malory’s fifteenth-century prose romance Morte Darthur, in which chivalry and courtly love receive their last great medieval expression. Sir Gawain and the Green Knight, a more troubled examination of heroism and chivalry, will also be studied, as will the emergence of medieval selfhood found in Margery Kempe’s writings. The subject also introduces recent critical methodologies as ways to look at the texts, particularly historicism and feminism.
Assumed Knowledge: No assumed knowledge

ENGL1020 The Age of Shakespeare
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None.

ENGL1030 The Romantic Age
Units: 10
Locations: Callaghan
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 nature of Jane Austen, attention is also paid to the Gothic novel with its exploration of aberrant psychology. The poetry ranges from Blake’s miniature but radical lyrics to Keats’s erotic romances.
Assumed Knowledge: None

ENGL1040 Australian Literature: Narratives of Identity
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None.

ENGL1070 Representing the Child
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None

ENGL1101 Classics of World Literature
Units: 10
Locations: Callaghan
The course introduces students to a number of classic texts of international significance, thus familiarising them with major aspects of world literature. Texts written by foreign-language authors are examined in English translation. Internal mode of delivery.
Assumed Knowledge: None

ENGL2200 Creative Writing: Beginnings
Units: 10
Locations: Callaghan
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 practice the skills involved in writing prose, dramatic dialogue and/or 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.
Assumed Knowledge: 20 units English or 20 units Communications courses, or equivalent

ENGL2210 Creative Writing: Development
Units: 10
Locations: Callaghan
This is a course in imaginative writing, with a focus on developing the body of a creative work. Students are required to study and practice the skills involved in writing prose, dramatic dialogue and/or 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.
Assumed Knowledge: 20 units English courses or 20 units Communications courses, or equivalent.

ENGL3001 True Stories
Units: 10
Locations: Callaghan
This critical and creative course studies the modes and practices of true crime writing.
Assumed Knowledge: Assumed knowledge for ENGL3001 is 20 units of English subjects at 1000 level

ENGL3002 Charles Dickens
Units: 10
 Locations: Callaghan
The course is a study of the novels of one of English literature’s most popular and important writers, Charles Dickens (1812-1870). It treats those novels in both their literary and historical contexts. Dickens was the first true literary celebrity, and his novels trace the emergence of a new social reality out of the chaos of the industrial revolution: the study of his work thus connects with every major issue surrounding the rise of modernity.
Assumed Knowledge: 20 units of 1000-level English.

ENGL3003 Discursive Writing
Units: 10
Locations: Callaghan
The course enables students who have already attained a competent level of written expression to master the fundamentals of effective, rather than merely ‘correct’, non-fiction writing. It accordingly emphasises problems of rhetoric, in the broadest sense, in addition to the more technical issues of grammar and usage. It is a practical composition course taught through workshops in which peer evaluation and feedback are essential.
Assumed Knowledge: 200wp of 1000-level English subjects. This is not a remedial writing course, and students are assumed to have achieved a competent standard of writing before undertaking it.

ENGL3004 Autobiography and Fiction
Units: 10
Locations: Callaghan
This course explores different techniques of telling the story of a life, analyzing the kinds of narrative strategies employed in autobiography and first-person fiction and the influence of factors such as class, gender, and culture on the representation of the self.
Assumed Knowledge: 20 Units 1000 level English courses

ENGL3005 Authority and Anxiety in the Eighteenth Century
Units: 10
Locations: Callaghan
This course explores literary representations of authority and anxiety during a period which marks the rise of the middle classes and the beginning of the modern era. It examines the value of tradition and order, judgement and virtue, but it is also about those who threaten or abuse authority, bad writers, madmen, thieves, tyrants, women, and “the public” itself. The unit considers major writers of the period, such as Jonathan Swift, Daniel Defoe, Henry Fielding, Samuel Johnson, Lawrence Sterne and Anne Radcliffe.
Assumed Knowledge: 20 units of English at 1000 level.

ENGL3020 Renaissance Drama
Units: 10
Locations: Callaghan Central Coast
Studies tragedies by major playwrights of the English Renaissance, including Shakespeare, incorporating consideration of the genre and history of tragedy.
Assumed Knowledge: Assumed knowledge for ENGL3020 is 20 units of English courses at 1000 level

ENGL3010 Modern World Literature
Units: 10
Locations: Callaghan
The course introduces students to a number of modern texts of international significance, thus familiarising them with major aspects of current world literature. Texts written by foreign-language authors are examined in English translation. Internal mode of delivery.
Assumed Knowledge: 20 units of English at 1000 level

ENGL3200 Advanced Creative Writing: Large Structures
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 20 units English or 20 units Communications courses, or equivalent.
ENGL3210 Advanced Creative Writing: Endings
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 20 units of Creative Writing at 2000 level, comprising ENGL2200 and ENGL2210.

ENGL3440 Novel and Romance
Units: 10
Locations: Callaghan
Examines the relationship between two forms of narrative, the novel and the romance, in particular as the novel has been defined in opposition to the romance mode. It will look at the implications of terms such as ‘realist’ and ‘romantic’ in relation to texts ranging from the eighteenth to the twentieth century, and will explore the extent to which the novel has effectively disengaged itself from romantic fictions associated with wish-fulfilling fantasies and conspicuous make-believe.
Assumed Knowledge: 20 units 1000-level English courses

ENGL3460 Contemporary Australian Literature
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 20 units of 1000-level English courses

ENGL3490 Criticism and Interpretation
Units: 10
Locations: Callaghan
A survey of mainstreams in the history of literary criticism, from classical precepts to contemporary literary theory. It explores both criticism (general statements about the literary arts 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

ENGL3730 Poetry in Action
Units: 10
Locations: Callaghan
Introduces students to a range of poems, in English or in English translation, suited to awaking or reviving poetry for students of primary and secondary school age. Emphasis will be laid on poems with lively prosody and rhythm, but examples of free verse and of formal models outside the English accentual-syllabic tradition will also be investigated in terms of their suitability for school-age students’ creative writing. Appropriate subject matter for the younger reader will be discussed. Students will be expected to conduct Internet and library searches, to find examples of suitable poetry, to read these aloud in seminars, and to submit poems (or exercises) of their own composition as well as analyses and surveys.
Assumed Knowledge: 10 cps Introductory (1000)level English or Linguistics subjects

ENGL4070 English Honours I
Units: 20
Locations: Callaghan
ENGL4070, ENGL4080, ENGL4090, and ENGL4100 must be studied concurrently and together constitute the honours program in English. The 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.
Assumed Knowledge: Entry to the honours program in English requires a B.A. pass or equivalent.

ENGL4080 English Honours II
Units: 20
Locations: Callaghan
ENGL4070, ENGL4080, ENGL4090, and ENGL4100 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.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENGL4090 English Honours III
Units: 20
Locations: Callaghan
ENGL4070, ENGL4080, ENGL4090, and ENGL4100 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.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENGL4100 English Honours IV
Units: 20
Locations: Callaghan
ENGL4070, ENGL4080, ENGL4090, and ENGL4100 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-answer supervisor.
Assumed Knowledge: Entry to the honours program in English requires a Bachelor of Arts pass or equivalent.

ENGL6001 Creative Writing: Foundations
Units: 10
Locations: Callaghan
A foundation course in Creative Writing at the graduate level, extending students’ capabilities in experimenting with different subject areas, styles and genres, in the imitation of creative projects, and in self-editing.
Assumed Knowledge: Nil

ENGL6002 Creative Writing: Development
Units: 10
Locations: Callaghan
A course in Creative Writing at the graduate level, extending students’ capabilities in the development of creative writing pieces, and in self-editing, together with an introduction to the disciplines and practicalities of publishing creative writing.
Assumed Knowledge: Nil

ENGL6003 Discursive Writing: Non-Fiction
Units: 10
Locations: Callaghan
A foundation course in discursive writing at the graduate level, introducing the range of subject areas, styles and genres in this area, and extending students’ capabilities in self-editing, together with an introduction to the disciplines and practicalities of publishing non-fiction writing.
Assumed Knowledge: Nil

ENVS1020 Environmental Values and Ethics
Units: 10
Locations: Callaghan
The course introduces students to the ideological causes of environmental destruction (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 idea of an Australian environmental ethic. 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, experimentation and social action is critically considered.
Assumed Knowledge: NA

ENVS1050 Environmental Systems
Units: 10
Locations: Callaghan
Environmental scientists use information from the physical sciences and social sciences to (i) provide an understanding of how the earth works (ii) analyse and understand earth’s life support systems and (iii) develop solutions to environmental problems. This course provides a comprehensive introduction to the physical nature and structure of a number of current environmental problems and introduces students to basic field and laboratory skills required for a qualified environmental scientist. Through a series of lectures, laboratories and field work, students will examine case studies which illustrate the interdisciplinary nature of environmental science and the different approaches which may be taken to environmental problem solving.
Assumed Knowledge: No prior knowledge of Environmental Science is assumed.

ENVS2010 Environmental Legislation and Planning
Units: 10
Locations: Callaghan
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 types of environmental assessments required. The course also examines the various environmental studies required for different developments 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.
Assumed Knowledge: There is no assumed knowledge for this subject.
ENVS2030  Environmental Sampling & Data Analysis
Units: 10
Locations: Callaghan
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.
Assumed Knowledge:  ENVS1040/1050.

ENVS2040  Energy and the Environment
Units: 10
Locations: Callaghan
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.
Assumed Knowledge:  Level 1000 science, including ENVS1020 and ENVS1040/1050.

ENVS2620  Biosciences for EOHS
Units: 10
Locations: TMC, Singapore
Introduces to the student the basic components of biological systems and provides a background knowledge of human physiology and anatomy in relation to environmental and occupational health. Topics include animal cell structure, micro-organisms and basic biochemistry, major body systems, defense mechanisms and reproduction.
Assumed Knowledge:  Nil.

ENVS2710  Environmental Control Practice
Units: 10
Locations: PSB Singapore
Overviews sources of and control strategies for air, water and soil pollution; waste management and waste minimisation; drainage and flood control; pests and pest control, and sanitation. Relevant legislation is referred to in context.
Assumed Knowledge:  Nil.

ENVS3010  Integrated Environmental Impact Assessment
Units: 10
Locations: Callaghan
This course 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.
Assumed Knowledge:  EN2010, EN2030, EN2040.

ENVS3610  Environmental Impact Assessment
Units: 10
Locations: PSB Singapore
This course is designed to introduce students to environmental impact assessment and to provide theoretical and practical education in this field. The 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.
Assumed Knowledge:  Nil.

ENVS6500  Business & Natural Environment
Units: 10
Locations: WebLearn
This course focuses on the impact of businesses on the natural environment and how this impact can be minimised. It aims to provide students with a broad understanding of current environmental issues as they relate to managerial decisions in all aspects of organisational activities. Better understanding of the business-environment interface will enable more effective corporate environmental practice and decision-making.
Assumed Knowledge:  Nil. The course is designed such that students do not need any specialised knowledge in either environmental issues or principles of business. Requirements to enter the distance learning postgraduate coursework program must be met.

ENVS6510  Environmental Legislation and Planning
Units: 10
Locations: Callaghan
ENVS6510 focuses on the basic legislative and planning requirements for environmental protection. Different legislative approaches and the role of planning systems in the regulation of development are explored, and case studies are analysed in demonstrating the role of legislation in environmental protection.
Offered: This course is offered internally in semester 1, 2003 for MES, GDES and GCES students. The course is also offered in either trimester 1, 2 or 3 by distance learning for MEBM and GCEBM students.
Assumed Knowledge:  None. Requirements to enter the degree must be met. Only open to post-graduate environmental studies students.

ENVS6520  Sustainability
Units: 10
Locations: Callaghan
Only open to post-graduate environmental studies students. Focuses on the principles of sustainability and apply them to real world situations and examples within a problem solving methodology. Students will have the opportunity to critically examine the evolution of the concept of sustainability and apply critical insight to contemporary issues in environmental policy and management.
Offered: This course is offered internally in semester 2, 2001 for students of Master of Environmental Studies and Graduate Diploma of Environmental Studies programs in 2001. The course is also offered in one trimester (12 weeks) for students of the distance learning programs for Master of Environmental & Business Management and Graduate Certificate of Environmental & Business Management.
Assumed Knowledge:  Requirements to enter the degree must be met. Only open to post-graduate environmental studies students.

ENVS6530  Environmental Management
Units: 10
Locations: Callaghan
WebLearn
Focuses on the principles of environmental management, within a policy and problem solving framework from the perspectives of State Government, Local Government, industry and community. Problem solving approaches are taken in respect of environmental reviews, auditing and planning.
Offered: This course is offered internally in semester 1 for the GCES, CDES and MES students. The course is also offered externally by weblearn in either trimester 1, 2 or 3 for the MEBM and GCEBM students.
Assumed Knowledge:  None. Requirements to enter the degree must be met. Only open to post-graduate environmental studies students.

ENVS6540  Environmental Impact Assessment
Units: 10
Locations: Callaghan
The course is also offered externally by weblearn flexible delivery in one trimester for students of the Master of Environmental Studies, Graduate Diploma and Graduate Certificate of Environmental Studies programs.
Offered: This course is offered internally in semester 2 for students of the Master of Environmental Studies, Graduate Diploma and Graduate Certificate of Environmental & Business Management.
Offered: This course is offered internally in semester 1 for the GCES, CDES and MES students. The course is also offered externally by weblearn flexible delivery in one trimester for students of the Master of Environmental & Business Management and Graduate Certificate of Environmental & Business Management.
Only open to post-graduate environmental studies students.
Assumed Knowledge:  None. Requirements to enter the degree must be met.

ENVS6550  Geographies of Urban and Regional Development
Units: 10
Locations: Callaghan
Examines major developments in economic and urban geography. Analyses the processes of change that affect industrial and urban spaces at several scales, encompassing household, factory, cities, region, nation and global economy. Debates are introduced concerning the role of the state and the nature of contemporary economic, industrial, urban and regional change. Particular attention is given to global cities, the changing role of the CBD and new forms of commerce, the rising importance of information and producer services.
Contact hours: 4 lecture hours and a one-day field trip.
Assumed Knowledge:  The subject will be open to students accepted into the Graduate Certificate and Masters in Social Change and Development.

ENVS6600  Environmental Studies Minor Project
Units: 10
Locations: Callaghan
This course is a required component of the Graduate Diploma of Environmental Studies. The 5,000 word project is undertaken on a topic selected according to the student’s needs, after discussion with the co-ordinator and supervisor. Topics are encouraged from one of the following areas of specialisation: mining, energy, wetlands ecology or sustainability. The project can take the form of a critical review of the literature, an historical or philosophical investigation, an analysis of a practical environmental situation or issue, or an empirical research project.
Assumed Knowledge:  Nil.
EPHUMA233 Australian Economic History 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: N/A

EPID4010A Epidemiology (Part A)
Units: 10
Locations: Callaghan
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

EPID4010B Epidemiology (Part B)
Units: 10
Locations: Callaghan
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

EPID6400 Introductory Epidemiology and Biostatistics
Units: 10
Locations: CCEB
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 will further develop an understanding of the methods of data collection and analysis as well as the interpretation of statistical information as presented in scientific publications.
Assumed Knowledge: N/A

EPID6410 Clinical Epidemiology
Units: 10
Locations: Off Campus
Applies the principles of Epidemiology and Biostatistics in a very practical manner to improve medical decision making. The subject also provides an opportunity to develop research skills which are essential for investigating important clinical and population based health problems.
Assumed Knowledge: N/A

EPID6420 Epidemiology A - Basic Methods
Units: 10
Locations: CCEB
Introduces students to the basic concepts of epidemiology. Epidemiology is 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.
Assumed Knowledge: N/A

EPID6430 Epidemiology B - Research Design
Units: 10
Locations: Off Campus
Extends the points, analyses, and designs covered in EPID6420 Epidemiology A.
Assumed Knowledge: N/A

EPID6440 Molecular Epidemiology
Units: 10
Locations: Off Campus
Molecular epidemiology covers the application of methods in molecular biology to epidemiology. The main topics covered are molecular association studies, the use of biomarkers and susceptibility genes.
Assumed Knowledge: EPID6420 Epidemiology A, undergraduate level of biology

EPID6450 Genetic Epidemiology
Units: 10
Locations: Off Campus
Provides a medium to follow and build on the concepts introduced in Molecular Epidemiology (EPID6440). Where molecular epidemiology assumes that a genetic determinant of disease is present, and has a candidate gene or marker to test, genetic epidemiology seeks to quantify genetic contribution to disease, estimate the number of genes involved and isolate them.
Assumed Knowledge: N/A

EPID6460 Epidemiology of Communicable Diseases
Units: 10
Locations: CCEB
This course aims to provide students with an understanding of the epidemiology of some common communicable diseases; skills in the evaluation of control programs for communicable diseases and surveillance of communicable diseases; and knowledge of ways of investigating a communicable disease outbreak.
Assumed Knowledge: N/A

EPID6470 Infectious Disease Surveillance
Units: 10
Locations: Callaghan
Offers an experience of investigating communicable disease outbreaks and surveillance issues, in association with the Public Health Unit of the Hunter Area Health Service. This will include food inspection and other statutory roles of the Unit. This will be available for full-time students only.
Assumed Knowledge: N/A

EPID6480 NUTRITIONAL EPIDEMIOLOGY A
Units: 10
Locations: Off Campus
The aim of this new course is to provide students with an understanding of the epidemiological methods and concepts related to measurement of nutritional exposures and nutritional status. These methods will provide the basis for applications in the areas of research, nutritional surveillance and program evaluation and monitoring.
In the First Year of Offer (2002), this course is available via Distance Learning only.
Assumed Knowledge: No previous knowledge is assumed.
EPID6490 NUTRITIONAL EPIDEMIOLOGY B
Units: 10
Locations: Off Campus
The aim of this new course is to provide students with an understanding of how to apply nutritional epidemiological concepts and methods to research and public health practice. Advanced methods for analysis of dietary intake and nutritional status data are introduced. The application of these methods is illustrated in a variety of research and public health surveillance and program evaluation settings.

THIS COURSE WILL BE OFFERED TO DISTANCE LEARNERS ONLY IN FIRST YEAR OF OFFER (2002).
Assumed Knowledge: No previous knowledge is assumed.

EPID6500 Methods in Pharmacoepidemiology
Units: 10
Locations: CCEB, Off Campus, City Precinct
Language: English
Distance Education - Callaghan
Provides students with core training in appropriate methods for pharmacoepidemiology. The role of post-marketing drug surveillance, and voluntary drug reporting systems are examined. Study methodologies explored in this course include cohort studies, case control studies, and meta-analysis of observational studies.
Assumed Knowledge: EPID6420 Epidemiology A; EPID6430 Epidemiology B; BIOS6910 Biostatistics A; BIOS6920 Biostatistics B.

EPID6510 Pharmacoepidemiology: Behavioural & Cultural Theme
Units: 10
Locations: CCEB, Off Campus, City Precinct
Language: English
Distance Education - Callaghan
Covers a range of academic activities that are relevant to the use and effects of pharmaceuticals in communities. The course covers the behavioural aspects of drug use, including prescriber behaviour and methods that can be used to change this. The importance of good questionnaire development in survey design is emphasised, as is the use of time series analysis when controlled observational or quasi-experimental designs are not possible.
Assumed Knowledge: EPID6420 Epidemiology A; EPID6430 Epidemiology B; BIOS6910 Biostatistics A; BIOS6920 Biostatistics B.

EPID6520 Pharmacoeconomics and Drug Selection
Units: 10
Locations: CCEB, Off Campus
Language: English
Distance Education - Callaghan
Explains pharmacoeconomics, which is the study of the cost-effectiveness of medicinal drugs. Combines the principles of evidence-based medicine, clinical economics and decision analysis to aid the selection of drugs for listing in national formularies. Pharmacoeconomics is becoming an essential management tool for drug subsidisation programs throughout the world, and has important applications in both developed and developing countries.
Assumed Knowledge: Most students will have a background in medicine or pharmacy. Experience in drug selection decisions at a local institutional, regional, national or international level would be desirable

EPID6530 Pharmacoepidemiology - Policy and Economic Issues
Units: 10
Locations: Callaghan
Covers a wide range of issues: regulation and legislation relevant to pharmaceuticals; the pharmaceutical industry; affordability and equity of access to therapeutic drugs; the assessment of the cost-effectiveness of drugs; and the incorporation of these elements into national drug policies.
Assumed Knowledge: EPID6420 Epidemiology A, EPID6430 Epidemiology B, BIOS6910 Biostatistics A and BIOS6920 Biostatistics B.

EPID6540 General Practice - Clinical Epidemiology
Units: 10
Locations: Callaghan
Provides an overview of the application of clinical epidemiology in the general practice setting.
Assumed Knowledge: Medical degree and experience in General Practice or relevant work experience related to General Practice.

EPID6560 General Practice A - Epidemiology Methods
Units: 10
Locations: Callaghan
Purpose of this subject is the development of epidemiological skills as they relate to general practice research and project development.
Assumed Knowledge: Medical degree and experience in General Practice or relevant work experience related to General Practice.
FILM1002 The Contemporary Cinema
Units: 10
Locations: Callaghan
The course explores issues arising from the various technological, aesthetic and cultural shifts in contemporary cinema through the detailed examination of a number of recently released films. A range of theoretical, analytical and historical perspectives are applied to the films in order to highlight the complex changes in production and delivery systems that are occurring worldwide.
Assumed Knowledge: FILM1010

FILM1010 Introduction to Film Studies
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: NA

FILM3001 Television in Australia
Units: 10
Locations: Callaghan
This course takes a primarily textual approach to the study of a broad range of contemporary television programs watched in Australia. The first half of the course looks at the main ways in which contemporary scholars have studied and theorized television as a specific cultural form, paying particular attention to its unique narrative and non-narrative structures. The second half of the course examines how notions of the local, national and global shape the content and meanings of television programs watched in Australia.
Assumed Knowledge: 20 units of FILM courses at the 1000 level

FILM3002 Teen Cinema and Television
Units: 10
Locations: Callaghan
The course traces the evolution of the Teen genre as a hybrid form and examines its changing representation of adolescence over the past 50 years. Positioning the Teen film in various genres and time frames since its inception in the 1950s, the course explores the relationship between film and youth culture primarily through the discourses of resistance and subculture but also gender, race, ethnicity and sexuality.
Assumed Knowledge: 20 units of FILM courses at the 1000 level

FILM3003 Bollywood and Hong Kong: Two Asian Cinemas
Units: 10
Locations: Callaghan
Provides an overview of recent trends in Indian and Hong Kong cinemas. The emphasis will be on cinematic traditions and innovations and their relationship to local cultural paradigms and transcultural interaction.
Assumed Knowledge: 20 units of FILM courses at 1000 level

FILM3004 Contemporary European Cinema
Units: 10
Locations: Callaghan
This course develops students' knowledge of European cultures and societies through the examination of film of the last decade.
Assumed Knowledge: All films shown will either be in English or have English subtitles. All texts examined will be in English or English translation. Hence no knowledge of foreign languages is necessary. No previous knowledge of European history, geography, society or economics is assumed.

FILM3005 Contemporary European Cinemas
Units: 10
Locations: Callaghan
This course develops students' knowledge of European cultures and societies through the examination of the film of the last decade.
Assumed Knowledge: All films shown will either be in English or have English subtitles. All texts examined will be in English or English translation. Hence no knowledge of foreign languages is necessary. No previous knowledge of European history, geography, society or economics is assumed.

FILM3100 Genre Study: The Horror Film
Units: 10
Locations: Callaghan
Examines this film genre from a number of points of view, for example, the aesthetic, the social, and the industrial.
Assumed Knowledge: Students are expected to have completed 20 units of FILM at 1000 level.

FILM3180 The Films of Alfred Hitchcock
Units: 10
Locations: Callaghan
Traces formal, narrative, and thematic continuities in the films of Alfred Hitchcock, and considers a range of critical approaches (including formal, auteurist, psychoanalytic, and feminist) to his work.
Assumed Knowledge: Assumed knowledge at the 3000 level is 20 units of FILM at 1000 level.

FILM3200 Violence in Film
Units: 10
Locations: Callaghan
Provides an historical overview of the uses and pleasures of violence in popular film, including issues such as the different ways in which moments of visible film violence might be related to the allegedly invisible violence of mainstream film form and the possible links between "violence in the media" and "violence in the real world?.
Assumed Knowledge: Assumed knowledge at the 3000 level is 20 units of FILM at 1000 level.

FILM4010 Film Honours
Units: 20
Locations: Callaghan
FILM4010, FILM4020, FILM4030 and FILM4040 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.
Assumed Knowledge: Entry to the honours program in Film Studies requires a B.A. pass or equivalent.

FILM4020 Film Honours II
Units: 20
Locations: Callaghan
FILM4010, FILM4020, FILM4030 and FILM4040 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 Bachelor of Arts pass or equivalent.

FILM4030 Film Studies Honours III
Units: 20
Locations: Callaghan
FILM4010, FILM4020, FILM4030 and FILM4040 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
Units: 20
Locations: Callaghan
FILM4010, FILM4020, FILM4030 and FILM4040 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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
Contact hours: 5 hours per week.
Assumed Knowledge: BIOL101 Plant and Animal Biology, BIOL102 Cell Biology, Genetics and Evolution

FOOD3010 - Food Processing & Quality Management
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
Contact hours: 5 hours per week.
Assumed Knowledge: FOOD201 Grain Food Science and Technology or equivalents, FOOD210 Microbiology and Food Safety

FOOD412 - Food Technology Honours 412
Units: 20
Locations: Central Coast
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

FOOD6010 - Advances in Grain Food Science
Units: 10
Locations: Central Coast
Advances in research and development applied to cereal and legume food processing and technology.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6020 - Advances in Dairy Food Science
Units: 10
Locations: Central Coast
Advances in research and development applied to dairy food science and technology. Liquid milk, dairy products and milk ingredients.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6030 - Advances in Animal Food Science
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: 30cp of 100 level science subjects

FOOD6040 - Advances in Horticultural Food Science
Units: 10
Locations: Central Coast
Advances in research and development applied to horticultural food processing and technology.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6050 - Advances in Sensory Research
Units: 10
Locations: Central Coast
Advances in research and development applied to the sensory qualities of foods and beverages.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6070 - Advances in Quality and Processing Technology
Units: 10
Locations: Central Coast
Advances in science, technology and quality management techniques applied to the processing of foods.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6100 - Advanced Microbiology and Food Safety
Units: 10
Locations: Central Coast
Provides advanced knowledge of food microbiology and safety that would enable a graduate to work in industrial research and development. Advances in research and development applied to Food Microbiology and Food Safety.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6110 - Advances in Food Biotechnology
Units: 10
Locations: Central Coast
Advances in research and development in molecular biology and biotechnology applied to the industrial production of foods and food ingredients.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FOOD6210 - Nutritional Perspectives in Food Science
Units: 10
Locations: Central Coast
Issues and advances of the impact of processing of foods in meeting the nutritional requirement in people at successive life stages.
Assumed Knowledge: The subject assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor’s degree.

FORS2010 - Introduction to Forensic Science
Units: 10
Locations: Callaghan
Forensic science simply means the application of science in a legal (typically court of law) environment. Students will be taught ‘from crime-scene to court’ examining the application and limitations of the forensic sciences. Students will be asked to examine some of the ‘errors’ in forensic science from high profile Australian cases, eg the Chamberlain case. As this course targets those science students studying law, the limitations and value of forensic evidence and the role of the expert witness will also be discussed.
Assumed Knowledge: CHEM1010, CHEM1020, BIOL1010 and BIOL1020. Further, LLB102 will provide an appropriate introductory background in criminal law pertinent to the subject.

FORS3010 - Forensic Science I
Units: 10
Locations: Callaghan
Students will examine the application of forensic chemistry and biology in greater detail -illegal drugs and the tasks and approaches to evidence determination; mass spectrometry methods of applicable scientific analysis, particularly pertaining to illegal drugs and arson cases - building upon some of the foundations presented in FORS2010. More emphasis will be placed upon the analytical techniques employed and their potential forensic limitations. The importance of quality assurance, sampling and control / reference samples in the Forensic sciences will also be addressed.
Assumed Knowledge: FORS2010.
FORS3020 Forensic Science II
Units: 10
Locations: Callaghan
Forensic science, 'Science for the Court' encompasses a diverse array of scientific disciplines, not limited to Forensic Pathology, Chemistry or Biology. Students will be introduced to the application of more specialised sciences to legal issues. Areas examined will include forensic photogrammetry, forensic statistics, forensic device / computer fraud, and the role of the forensic pathologist at the death scene. Students will also examine the major areas of forensic chemistry and forensic biology in greater detail.

FORS4010 Forensic Science Honours 4010
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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 completed.
Assumed Knowledge: Completion of the basic undergraduate degree in Forensic Science with an average in Level 3000 courses equivalent to a credit.

FORS4040 Forensic Science Honours 4040
Units: 20
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Nil

FREN1200 Elementary French II
Units: 10
Locations: Callaghan
A semester language unit designed as the continuation of the Introductory course FREN1100. Provides vocabulary extension and further fundamental sentence patterns, still placing emphasis on speaking and understanding of the language at an elementary level.
Assumed Knowledge: FREN1100 or equivalent

FREN2001 Intermediate French 1
Units: 20
Locations: Callaghan
This course is a comprehensive language course for post beginners, which concentrates on improving the four basic skills needed for competent language acquisition. These skills will be enhanced by the close study of a selection of short literary texts/extracts.
Delivery is by lectures and small interactive group seminars.
Assumed Knowledge: FREN1200 Elementary French II or equivalent.

FREN2002 Intermediate French 2
Units: 20
Locations: Callaghan
This course is a comprehensive language course for post beginners, which concentrates on improving the four basic skills needed for competent language acquisition. These skills will be enhanced by the close study of a selection of short literary texts/extracts.
Delivery is by lectures and small interactive group seminars.
Assumed Knowledge: FREN2001 Intermediate French or equivalent.

FREN2140 Speaking French
Units: 10
Locations: Callaghan
Involves practice of everyday spoken French in different contexts and registers. Simulations and role-playing are used to enhance spontaneity and fluency.
Assumed Knowledge: FREN1200 Elementary French II or equivalent

FREN2610 French at Intermediate Level I
Units: 10
Locations: Callaghan
This course further develops the students' knowledge of the four major skills of language acquisition - speaking, listening, reading and writing beyond beginners' level.
Assumed Knowledge: FREN1200 Elementary French II or equivalent

FREN2620 French at Intermediate Level II
Units: 10
Locations: Callaghan
This course further develops the students' knowledge of the four major skills of language acquisition - speaking, listening, reading and writing.
Assumed Knowledge: FREN2610 Intermediate French I or equivalent

FREN3001 French Culture in Film
Units: 10
Locations: Callaghan
The course introduces students to key elements of French culture through a group of French films of internationally recognized importance. All films will be subtitled, thus ensuring that students with no knowledge of the French language will not be penalized.
Assumed Knowledge: None.

FREN3610 French at Advanced Level 1
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: FREN2002 Intermediate French II or equivalent

FREN3620 French at Advanced Level 2
Units: 20
Locations: Callaghan
A language course designed as a sequel to FREN3610, continuing to develop the students? oral and written expression as well as a further understanding of authentic documents.
Assumed Knowledge: FREN3610

FREN3710 French at Advanced Level 3
Units: 20
Locations: Callaghan
Assumed Knowledge: FREN3620 Advanced French II or equivalent

FREN3900 Hartley Studies in France
Units: 40
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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 FREN4150, FREN4160, FREN4170 and FREN4180 make up the Honours program and are to be studied in conjunction with each other.
Assumed Knowledge: Successfully completed degree with major in French with credit or above.
FREN4160 French Honours 2
Units: 20
Locations: Calahghan
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 FREN4150, FREN4160, FREN4170 and FREN4180 make up the Honours program and are to be studied in conjunction with each other.
Assumed Knowledge: Successfully completed degree with major in French with credit or above.

FREN4170 French Honours 3
Units: 20
Locations: Calahghan
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 FREN4150, FREN4160, FREN4170 and FREN4180 make up the Honours program and are to be studied in conjunction with each other.
Assumed Knowledge: Successfully completed degree with major in French with credit or above.

FREN4180 French Honours IV
Units: 20
Locations: Calahghan
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 FREN4150, FREN4160, FREN4170 and FREN4180 make up the Honours program and are to be studied in conjunction with each other.
Assumed Knowledge: Successfully completed degree with major in French with credit or above at French 300 level.

FSHN1010 Foods and Nutrition I
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: NA

FSHN1020 Foods and Nutrition II
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: NA

FSHN2010 Human Physiology
Units: 10
Locations: Central Coast
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: CHEM1110, CHEM1120, BIOL1040, BIOL1050

FSHN2020 Macronutrients
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: BIOL1040, BIOL1050, FSHN1010, FSHN1020, FSHN2020

FSHN2030 Micronutrients
Units: 10
Locations: Central Coast
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: BIOL1040, BIOL1050, FSHN1010, FSHN1020, FSHN2020

FSHN2040 Animal Food Products
Units: 10
Locations: Central Coast
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: BIOL1030 FSHN1010 FSHN1020

FSHN2050 Plant Food Products
Units: 10
Locations: Central Coast
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 FSHN1030, FSHN1060 and FSHN1070.

FSHN2100 Microbiology, Food Safety and Immunology
Units: 10
Locations: Central Coast
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: BIOL1040 BIOL1050

FSHN2410 Food and Beverage Management
Units: 10
Locations: Central Coast
Aims to provide the knowledge, skills and attitudes necessary for the provision of quality service of food and beverages in the hotel and hospitality industry.
Assumed Knowledge: 40 units of 1000 level courses.

FSHN3010 Food Processing and Quality Management
Units: 10
Locations: Central Coast
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, FOOD2120 Microbiology and Food Safety

FSHN3020 Nutrition in Health and Disease
Units: 10
Locations: Central Coast
Provides a detailed view of the relationship between diet, nutrition and disease. The course will cover the methodology used to determine dietary, nutritional and health status and how evidence is gathered to determine the links between diet, nutrition and health. The relationship between diet and nutrition and the prevention and management of specific diseases and conditions such as cardiovascular disease, cancer, diabetes, obesity, gastrointestinal disorders and osteoporosis will be covered in depth.
Assumed Knowledge: BIOL2010 FSHN2010 FSHN2020 FSHN2030

FSHN3060 Nutrition Through the Life Cycle
Units: 10
Locations: Central Coast
Provides a detailed view of the nutritional foundations necessary for growth, development and normal functioning of individuals in each stage of the life cycle, from preconception to the final stages of life. The life stages covered are preconception, pregnancy and lactation, infancy, childhood, adolescence, adulthood and old age. Normal nutrition for each stage of life is covered followed by some clinical aspects of nutrition for each stage of life. The course provides a detailed view of the nutritional foundations necessary for growth, development and normal functioning of individuals in each stage of the life cycle, from preconception to the final stages of life. The life stages covered are preconception, pregnancy and lactation, infancy, childhood, adolescence, adulthood and old age.
Assumed Knowledge: BIOL2010 Biochemistry FSHN2010 Human Physiology FSHN2020 Macronutrients FSHN2030 Micronutrients
FSHN3070 Functional Foods and Health Claims
Units: 10
Locations: Central Coast
Provides a detailed view of the new and burgeoning area of functional foods which are foods which have a health benefit above and beyond their nutrient content. The course will cover the areas of identification of the various bioactive components, the making of specific functional foods containing these bioactive components and the relevance these foods have to health benefits. The issue of health claims relative to functional foods and the laws governing their use will also be covered.
Assumed Knowledge: BIOL2010

FSHN3080 Professional Practice
Units: 10
Locations: Central Coast
Provides a detailed view of the issues associated with practicing as a Nutritionist in the community setting. The course will cover the theory and practice of community health promotion and the role of the nutritionist in this context as well as the private nutritional practice. The course will provide the students with the opportunity to apply their theoretical knowledge and skills during placements in community or private practice agencies.
Assumed Knowledge: FSHN1010, FSHN1020, FSHN2020, FSHN2030

FSHN3090 Food Service (Industry)
Units: 10
Locations: Central Coast
Provides a detailed view of the issues associated with nutrition in the Food and Food Service industries. This includes recipe and menu planning and design, the ordering, preparation and production of food in sizeable quantity, quality and food safety control systems, modification of foods and meals for special needs and consumer satisfaction. The course will provide the students with the opportunity to apply their theoretical knowledge and skills during placements and visits to food preparation and service agencies.
Assumed Knowledge: FSHN1010, FSHN1020, FSHN2020, FSHN2030

FSHN3100 Research Methods
Units: 10
Locations: Central Coast
Provides a detailed view of the methods used in nutrition research. It covers access to and critical evaluation of the literature, the design and conduct of experiments, the handling and analysis of experimental data and the reporting and publication of results. Aspects such as generation and testing of hypotheses based on existing knowledge, generation of aims, animal and human ethics considerations and applications, health and safety issues, importance and choice of methodologies, including power analyses, preparation of data and statistical analyses, interpretation and publishing of results, the grant application process and the patent application process.
Assumed Knowledge: INFO1010

FSHN3200 Applied Biotechnology
Units: 10
Locations: Central Coast
Focuses on the integration of the principles of molecular biology and biotechnology and application of this knowledge to the production of agricultural products, food ingredients, industrial microorganisms and to its role in food technology, marine biology and medical science.
Assumed Knowledge: BIOL1040 BIOL1050 CHEM1120 FSHN2100

FSHN3210 Food Product Development
Units: 10
Locations: Central Coast
Explains the use and sensory 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.
Assumed Knowledge: 40 units in FSHN or equivalent courses at 2000-3000 levels.

FSHN3230 Food Analysis
Units: 10
Locations: Central Coast
To provide knowledge and skills in the analysis of foods.
Assumed Knowledge: 20 units in FSHN or equivalent courses at 2000 level.

FSHN3410 Food and Beverage Management 2
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: FODD2410 Food and Beverage Management 1

FSHN3420 Food Packaging
Units: 10
Locations: Central Coast
Provides knowledge and skills in the handling and packaging of foods, and to develop values about the safety and environmental impact of packaging.
Assumed Knowledge: 20 units in 2000 level FSHN or equivalent courses.

FSHN4110 Food Technology Honours 411
Units: 20
Locations: Central Coast
Provides students with an advanced and substantive education in Food Technology. It 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 course develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FSHN4120 Food Technology Honours 4120
Units: 20
Locations: Central Coast
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 course develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FSHN4130 Food Technology Honours 413
Units: 20
Locations: Central Coast
Provides students with 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 course develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FSHN4140 Food Technology Honours 4140
Units: 20
Locations: Central Coast
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 course develops an understanding of advanced theory underpinning the practices of Food Technology, within Australian and international settings.
Assumed Knowledge: Bachelor of Science

FSHN6060 Advanced Food Product Development
Units: 10
Locations: Central Coast
Advances in the design and evaluation of new food products. Management of the food product development process.
Assumed Knowledge: The course assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelors degree.

FSHN6080 Advances in Food Packaging
Units: 10
Locations: Central Coast
Advances in research and development applied to packaging materials and the technology used to package processed foods. This course is also offered in distance learning mode.
Assumed Knowledge: The course assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelors degree.
FShN6090 Advanced Food Analysis
Units: 10
Locations: Central Coast
Researches and development applied to the analysis of unprocessed foods and food products.
Assumed Knowledge: The course assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor's degree.

FShN6150 Food Industry Applications
Units: 10
Locations: Central Coast
Requires the student to design, implement and report on a small research and development project within the framework of the food industry.
Assumed Knowledge: The course assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor's degree.

FShN6202 Advanced Macronutrients
Units: 10
Locations: Central Coast
Focuses on integration of the principles of molecular biology and biotechnology and application of this knowledge to the production of agricultural products, food and food products.

FShN6203 Advanced Micronutrients
Units: 10
Locations: Central Coast
Focuses on the principles of nutrition and their application in preventive and curative aspects of human health throughout the life cycle will be discussed.
Assumed Knowledge: NA

FShN6204 Advances in Animal Food Products
Units: 10
Locations: Central Coast
Focuses on the physical and biochemical changes occurring during the conversion of muscle to meat and their influence on nutritional quality. Course coverage includes the chemical, physical and microbiological properties of milk and dairy products, and the processes used to convert raw food materials to consumer food products.
Assumed Knowledge: To facilitate success in this course, students are expected to have passed at least 30 units in their first degree or the equivalent.

FShN6205 Advances in Plant Food Products
Units: 10
Locations: Central Coast
Provides a study of the structure, composition, 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 includes the chemical, physical and microbiological properties of milk and dairy products, and the processes used to convert raw food materials to consumer food products.
Assumed Knowledge: To facilitate success in this course, students are expected to have passed at least 30 units in their first degree or the equivalent.

FShN6210 Microbiology, Food Safety and Immunology
Units: 10
Locations: Central Coast
Focuses on microbiology and immunology in the context of food and nutrition.
Assumed Knowledge: It will be assumed that the student understands the basic concepts of biology, in particular cellular structure.

FShN6300 Applied Biotechnology
Units: 10
Locations: Central Coast
Focuses on integration of the principles of molecular biology and biotechnology and application of this knowledge to the production of agricultural products, food and food products.
Assumed Knowledge: It will be assumed that the student understands the basic concepts of cellular biology and microbiology.

FShN6301 Advances in Food Processing and Quality Management
Units: 10
Locations: Central Coast
Focuses on the principles of nutrition and their application in preventive and curative aspects of human health throughout the life cycle will be discussed.
Assumed Knowledge: NA

FShN6306 Advances in Nutrition Life Cycle
Units: 10
Locations: Central Coast
Focuses on integration of the principles of molecular biology and biotechnology and application of this knowledge to the production of agricultural products, food and food products.
Assumed Knowledge: The course assumes students have skills in literature research, synthesis and report writing at the level expected in a Bachelor's degree.

FShN6307 Functional Foods and Health Claims
Units: 10
Locations: Central Coast
Focuses on integration of the principles of molecular biology and biotechnology and application of this knowledge to the production of agricultural products, food and food products.
Assumed Knowledge: NA

FShN6696 Project II
Units: 20
Locations: Central Coast
Allows students to complete a research project prepared for in prior or parallel study in FOOD695. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to the attainment and interpretation of experimental results within the context of the known scientific literature of the selected field, with the remaining 40% of time devoted to the preparation of a formal report detailing and interpreting the results of the study. A typed report of a size defined below will be required.
Assumed Knowledge: FOOD6950

FShN6950 Project I
Units: 20
Locations: Central Coast
Allows students to undertake a research project prepared for in prior study in FOOD695. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of experimental results. A typed literature review of a size defined below will be required.
Assumed Knowledge: FOOD6940
GEBU6010 Management Information Systems
Units: 10
Locations: Hartford, Hong Kong
City Precinct
Hartford Singapore
Institut WIRA - Malaysia
On-line from Callaghan
Uniworld - Sydney City
Locomation: On-line from Callaghan
Uniworld - Sydney City

Seeks to provide a foundation for understanding information systems in the context of today's business environment, and to impart those skills necessary for solving a wide range of information-based problems.
Assumed Knowledge: nil

GEBU6020 Strategic Business Systems
Units: 10
Locations: City Precinct

Information is recognised as an increasingly important strategic organisational resource, which must be used effectively and efficiently. Executives must therefore be aware of the capabilities of current and emerging information technologies. This course covers a range of contemporary information technology issues and management practices which are of interest to middle and upper managers.
Assumed Knowledge: GEBU6010 - Management Information Systems or equivalent

GEBU6030 Business Systems
Units: 10
Locations: City Precinct

Initially takes an historical perspective on business information in order to help students understand business requirements for information in small and large organisations. Traces how and why business records developed at the same time illustrating the management of these records in modern Information Systems. Practical exposure is given to current business software systems. Explains the key issues to be considered when introducing new business information systems.
Assumed Knowledge: GEBU6010

GEBU6040 Knowledge Management
Units: 10
Locations: City Precinct

Introduces the emerging area of Knowledge Management. Organisations today are increasingly valued not by their conventional capital resources, but by their knowledge and expertise. Knowledge management is an emerging multi-disciplinary area of study which aims to provide frameworks and strategies for organisations which allow them to maximise this resource.
Assumed Knowledge: GEBU6010

GEBU6490 eBusiness for Managers
Units: 10
Locations: Hartford, Hong Kong
City Precinct
Hartford Singapore

This subject will investigate the application of information technology to the business processes of organisations. Specifically, it will consider the convergence of information and communications technologies as manifested in electronic document interchange and the emerging electronic commerce revolution. Within the context of electronic commerce, this subject will look at the rise of electronic transaction processing, with particular emphasis on the development of e-commerce as an alternative way of doing business, new systems of payment, security issues about the conduct of business through Internet portals and 'Web' pages. The subject will consider the new social, ethical and legal issues raised when organizations and individuals conduct business transactions over the Internet. Finally, the subject will also investigate and review new trends in the way individuals, organizations and governments may interact with one another in the future, such as the use of intelligent agents.
Assumed Knowledge: none

GECO6410 Microeconomics and Business Decisions
Units: 10
Locations: City Precinct
Hartford Singapore
Uniworld - Sydney City

1. To develop an understanding of economic analysis with respect to resource allocation in a firm.
2. To explain the workings of markets.
3. To introduce a rationale for government intervention when markets fail.
Assumed Knowledge: Pre-requisite - entry to Postgraduate Study; no co-requisites.

GECO6420 International Finance and Trade
Units: 10
Locations: City Precinct

Provides a systematic analysis of a range of issues in international finance and trade. The course begins with an introduction to the field of international trade and finance, distinguishing between international and domestic transactions. It then offers a quantitative overview of the importance of international trade to the global and national economy. The first half of the course deals with the advantages of free trade in goods and services, and trade or commercial policies that influence the trade structure and trade flows. The second half of the course is concerned with international transactions in goods, services, and capital. However, these transactions are conducted on financial markets with the framework of the international financial and currency system.
Assumed Knowledge: nil

GECO6470 Money and Banking
Units: 10
Locations: City Precinct

This course aims to familiarize students from different academic backgrounds and majors, with the basic concepts, theories and principles that explain the evolution of money and banking and the operations of modern banking and financial institutions under different market structures and degrees of openness. Functions and operations of modern central banks and the conduct of monetary policy by the central bank and international banking (for example, the Eurocurrency market) are important topics in this course. Case studies of the conduct of central banking in Hong Kong, the USA, and Australia will be considered.
Assumed Knowledge: No assumed knowledge

GEND1020 Introduction to Gender Studies
Units: 10
Locations: Callaghan

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

GEND3040 Gender Studies: Analysis And Action
Units: 10
Locations: Callaghan

Presents major contemporary theories and research methodologies within interdisciplinary gender studies. The interrelationships between theory, social history, research, policy and professional practice are comprehensively explored, with gender as a central concept. This course is central to the completion of a gender studies major.
Assumed Knowledge: GEND1020, GEND2010, GEND2020 or other courses with a focus on gender.

GEOG1020 Introduction to Human Geography
Units: 10
Locations: Callaghan

Human Geography is a diverse discipline that explains the relationships between people and places in the world we live in. In this course students develop an understanding and appreciation of the interactions between people and places through the core themes of globalisation, development, urbanisation, diversity and inequality. The course explores the ways in which global and local forces continuously shape socio-cultural and economic landscapes including cities and countryside.

Case studies are drawn from a mix of Australian and international examples. An important component of the course is the development of student skills and competencies in three major areas: the use and misuse of indicators of socio-cultural and economic change; techniques for field-based analysis of controversial local issues; and the basic use of geographical information systems (GIS) to explore trends in urban areas. Skills and concepts developed in the course are highly useful in other subject areas and for future employment opportunities.
Assumed Knowledge: nil
and a host of practical, analytical and communication skills with direct applicability. All assignments involve producing research reports where particular attention is paid to interviewing; and data analysis. The course draws on examples from a range of spatial systems.

Research in human geography involves building convincing arguments and telling convincing stories about places in the world. The capacity to create these arguments and stories depends upon a sound understanding of geographical methodologies and their application. In this course students develop the social science research skills applicable to human geography, environmental management, urban and regional planning and development studies. The course develops skills in a range of areas including using the census as a social research tool; questionnaire design; in-depth interviewing; and data analysis. The course draws on examples from a range of spatial scales, from the local to the global. A problem-based approach is used, with students using skills to solve problems that face human geography graduates in the work force. All assignments involve producing research reports where particular attention is paid to developing students’ writing and presentation skills. By the conclusion of the course, students will have attained a methodological grounding in human geography, and a host of practical, analytical and communication skills with direct applicability to later employment.

**Assumed Knowledge:** GEOG1020, GEOG1030, ENVIS1040 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities.

**GEOG2080** Cities and Regions

**Units:** 10

**Locations:** Callaghan

Australian cities and regions are transforming and there is heated political debate about their future course. GEOG2080 examines the economic, social and cultural dynamics of cities and regions, and contemporary shifts in the theories through which we understand them. The course 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.

**Assumed Knowledge:** GEOG1020 or GEOG1030.

**GEOG2110** Methods in Human Geography

**Units:** 5

**Locations:** Callaghan

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, especially GEOG302 Advanced Methods in Human Geography, and for future geographical research.

**Contact hours:** 2 lecture hours and 2 laboratory hours on alternate weeks

**Assumed Knowledge:** GEOG1020, ENV104 or equivalent 100 level subjects in the Social Sciences and Humanities.

**GEOG2130** Geographies of Development

**Units:** 10

**Locations:** Callaghan

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 course introduces concepts and theories that explain uneven development and its consequences and debates how recent 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.

**Assumed Knowledge:** GEOG1020 or GEOG1030

**GEOG2150** Human Geography Methodologies

**Units:** 10

**Locations:** Callaghan

Research in human geography involves building convincing arguments and telling convincing stories about places in the world. The capacity to create these arguments and stories depends upon a sound understanding of geographical methodologies and their application. In this course students develop the social science research skills applicable to human geography, environmental management, urban and regional planning and development studies. The course develops skills in a range of areas including using the census as a social research tool; questionnaire design; in-depth interviewing; and data analysis. The course draws on examples from a range of spatial scales, from the local to the global. A problem-based approach is used, with students using skills to solve problems that face human geography graduates in the work force. All assignments involve producing research reports where particular attention is paid to developing students’ writing and presentation skills. By the conclusion of the course, students will have attained a methodological grounding in human geography, and a host of practical, analytical and communication skills with direct applicability to later employment.

**Assumed Knowledge:** GEOG1020, GEOG1030, ENVIS1040 or appropriate equivalent 100 level subjects in the Social Sciences and Humanities.

**GEOG3020** Advanced Methods in Human Geography

**Units:** 10

**Locations:** Callaghan

**Note:** This course if offered subject to sufficient student enrolments.

Geographers’ unique ability to analyse the many processes and structures which shape places depend on a particular set of methodological and analytical skills. This course is designed to support these skills in students using problem-based learning. It focuses on two major tasks: undertaking a social impact assessment and conducting a major research project. The course has two components: (i) a classroom-based component during which research design and methodological skills are developed and a (ii) a field based component in which these skills are put into practice. During the field trip, students, first, examine the social impacts of a major development project and, second, pursue their own research projects. The course prepares students for research, based in the workforce or pursued through honours or postgraduate study. By the conclusion of the course, students will have written two substantial research reports, which can be used to demonstrate their research competence to potential employers. The field trip will take place from 4-7 April 2003 (inclusive) in the Sydney region.

**Assumed Knowledge:** GEOG2150 and either GEOG2080 or GEOG2130.

**GEOG3090** Society and Space

**Units:** 10

**Locations:** Callaghan

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 urban areas, and the social impacts of urban and regional growth and decline. 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.

**Assumed Knowledge:** GEOG1020 and either GEOG2080 or GEOG2130.

**GEOG3230** Postcolonial Geographies

**Units:** 10

**Locations:** Callaghan

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 course 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 course examines some of the products of the post-colonial world, such as post-colonial cities and representations.

**Assumed Knowledge:** GEOG2150 and either GEOG2080 or GEOG2130.

**GEOG3240** Globalisation: Cities, Economies

**Units:** 10

**Locations:** Callaghan

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 course also explores the development of new global geographies of production and consumption. Common themes throughout the course include the dynamics of 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.

**Assumed Knowledge:** GEOG1020 and either GEOG2080 or GEOG2130.

**GEOIS1010** Introduction to Physical Geography

**Units:** 10

**Locations:** Central Coast

Provides students with an introduction to the landscape-ocean-atmosphere system through a program of lectures, practicals and fieldwork. The lectures are divided into four modules: the global environment, climatology, geomorphology and biogeography. Students develop hands-on skills in key geographical techniques during laboratory and computing practicals. Elements of the theory and practical skills acquired throughout semester are applied during the fieldwork.

**Assumed Knowledge:** No prior knowledge is required.

**GEOIS1040** Earth’s Dynamic Systems

**Units:** 10

**Locations:** Callaghan

The Earth is an evolving and dynamic planet. Changes that take place and at the rates at which they occur have the potential to drastically affect the way we live. Understanding past evolutionary changes in the geosphere, hydrosphere, atmosphere and biosphere that shape our planet, and the crucial interactions between these systems, is fundamental in predicting the course and impact of future changes. Topics covered provide the necessary grounding for continuing studies in Earth and Environmental Sciences, including Geology and Physical Geography.

**Transitional arrangements:** GEOIS1040 will not count for credit with GEOIS1100 or GEOIS1010. GEOIS1040 will also replace GEOIS1100 as assumed knowledge for GEOIS1110. To account for those students who have completed GEOIS1010 but not GEOIS1100, GEOIS1010 will also be accepted as assumed knowledge for GEOIS1110 during this transition.

**Assumed Knowledge:** None.
GEOS1110 Earth Materials

Units: 10
Locations: Callaghan

Studies the features and internal structure of rock forming minerals, the characteristics of volcanoes and their products, weathering processes and the depositional environments of sediments. The metamorphism of rocks in different tectonic settings, energy resources and ore deposits of different origins are also discussed.

Transitional arrangements:-

GEOS1040 will not count for credit with GEOS1100 or GEOS1010.
GEOS1040 will replace GEOS1100 as assumed knowledge for GEOS1110.
Students who have already completed GEOS1100 but not GEOS1040 will be able to count GEOS1010 as assumed knowledge for entry into GEOS1111 during the transition period.

Assumed Knowledge: GEOS1010 or GEOS1040.

GEOS2030 Biogeography and Climatology

Units: 10
Locations: Callaghan

Introduces students to basic concepts of biogeography and climatology, two core areas in the discipline of geography. Topics covered in climatology include that atmospheric system, general circulation, El Niño/Southern Oscillation, precipitation processes, severe storms and weather, tropical cyclone and urban climates. Topics covered in biogeography include, ecosystem analysis, vegetation characteristics, distribution of mammals and birds, biotic adaptations, biodiversity speciation and island biogeography. There is a strong emphasis on management using ecological principles and forestry case studies. Links between biogeographic and climatic systems are explored.

Assumed Knowledge: GEOS1010/1040

GEOS2050 River Basin Processes

Units: 10
Locations: Callaghan

Water is the most important agent in shaping the landscape. It is responsible for weathering, soil formation, the erosion of sediment from hillslopes, gullies and river banks, and the transport and deposition of sediment in channels, on floodplains and in estuaries. Water also acts beneath the surface, replenishing groundwater systems and triggering environmental problems like soil salinity. This course provides students with a comprehensive introduction to the movement of water through river basins, and the role water plays in the development of soils and the flux of sediments through the landscape. Through a series of lectures, laboratories and field work, students will learn how to quantify the movement of water through various components of the hydrological cycle, and the major factors controlling the way in which water moulds the river basin landscape.

Assumed Knowledge: GEOS1040 (new combined first-year geoscience course) or equivalent previous course GEOS1010.

GEOS2090 Statistical Methods in Geography and Environmental

Units: 5
Locations: Callaghan

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.

GEOS2100 Methods in Physical Geography

Units: 5
Locations: Callaghan

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 half-day field trip.

Assumed Knowledge: GEOG101 or ENV104.

GEOS2130 Ancient Environments and Organisms

Units: 10
Locations: Callaghan

Integrates ancient sedimentary environments with the evolution and morphology of ancient life, stratigraphic relationships and time.

Assumed Knowledge: GEOS1110

GEOS2150 Geology Field Course

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: Level 100 Earth Materials (GEOS1110)

GEOS2161 GIS and Remote Sensing

Units: 10
Locations: Callaghan

Provides students with an introduction to the principles of geographic information systems (GIS) and remote sensing and the application of these techniques to 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 IDRISI13 GIS/image processing software.

Assumed Knowledge: GEOS1010/1040 or GEOS1110 or ENV1040/1050.

GEOS2170 Optical Mineralogy and Igneous Petrology

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: GEOS1010/1040 and GEOS1110

GEOS2180 Sedimentary and Metamorphic Petrology

Units: 10
Locations: Callaghan

This course is a practical introduction to the petrology of sedimentary and metamorphic rocks, including weekly microscopy laboratories in which students examine thin sections of these rocks. We discuss the best methods of describing and classifying sedimentary and metamorphic rocks, how they form, and the features by which they may be identified under the microscope. Sedimentary rocks, including fossiliferous carbonates, are frequently studied for the purposes of petroleum exploration, exploration for placer and stratabound mineral deposits, age dating using fossil evidence, study of aquifers and building stone, and to discover the source area of sediments (related to palaeogeography) at times in the geological past. Metamorphic rocks can be host to a range of economic minerals, indicate the temperatures and pressures the rocks have experienced (paleothermometry), and hold clues to the types and directions of earth movements which led to their origin.

Assumed Knowledge: Students attempting this subject must have successfully completed GEOS2170.

GEOS2190 Structural and Field Geology

Units: 10
Locations: Callaghan

Geological mapping is a key tool in understanding past environments and the processes that shape Planet Earth. This course provides an introduction to geological structures, and equips students with the skills to resolve the deformation processes that shape Planet Earth. This course provides an introduction to geological structures, and equips students with the skills to resolve the deformation processes that shape Planet Earth. The subject also lays the foundations for the proposed 3rd year subject on geographic information systems.

Assumed Knowledge: Level 100 Earth Materials (GEOS1110)

GEOS3110 Igneous Petrology & Crustal Evolution

Units: 10
Locations: Callaghan

The first section of this course 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 Archaean to present, using the Australian continent as the example.

Assumed Knowledge: GEOS2170
GEOS3130 Structural Geology and Geophysics
Units: 10
Locations: Callaghan
The geophysical component of this course 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.
Assumed Knowledge: GEOS2190 or GEOS2140

GEOS3160 Geology of Fuels
Units: 10
Locations: Callaghan
Fuels are currently the mainstay of our energy industry. However, environmental concerns, and a desire to optimise efficiency in the energy industry mean that the fuels area is subject to great change. Geology of Fuels deals in part with formation of, exploration for, recovery and utilisation of fossil fuels, both coal and petroleum. The course deals with tectonics of coal and petroleum formation, evolution of the flora and fauna from which they form, environments of formation, maturation, marketing, utilisation and environmental aspects of energy generation. Students present a seminar on a topic of their choice related to fuels or energy, to develop an area of specialisation prior to entering the workplace, or undertaking research.
Assumed Knowledge: GEOS2130

GEOS3170 Resource and Exploration Geology
Units: 10
Locations: Callaghan
Metallic resources underpin modern society. Australia is endowed with world-class resources of many essential commodities, including diamonds, gold, iron ore, manganese, copper, lead, zinc, tin and silver. Using many local examples, this 'hands-on' course introduces students to the fundamental characteristics of metallic ore deposits. Emphasis is placed on understanding ore-forming processes in magmatic, hydrothermal and metamorphic environments, and on the use of ore-forming concepts as guides to mineral exploration. A voluntary, three-day field trip to examine some examples of NSW ore deposits complements the lecture-laboratory component, and allows students to interact with geoscience professionals in the mining and exploration industry.
Assumed Knowledge: GEOS2190

GEOS3200 Climate Change and the Environment
Units: 10
Locations: Callaghan
Examines the nature, causes and extent of 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, desert 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 and North America and Europe, is also considered.
Assumed Knowledge: GEOS2161 or ENV2S200 and either GEOS2040 or EMGT201.

GEOS3210 Advanced Biogeography and Climatology
Units: 10
Locations: Callaghan
The Biogeographical component of GEOS3210 will focus on biological conservation including critical application of island biogeography and biodiversity concepts. It also focuses on studies of Meta population, reverse design and exotic pests. Factors of human and environmental disturbance affecting biodiversity are considered. The Climatology component will focus on air pollution, its relationship to climate and meteorology, its influence on climate change evaluating the pollutants and their importance to health, pollutant dispersion on a regional scale, the establishment of sources and emissions inventories and the relative importance of components, and current major urban air pollution research in Australia and overseas.
Assumed Knowledge: GEOS2030 and either GEOS2161 or ENV2S2030

GEOS3211 Geology Field Course 321
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: GEOS2150, GEOS2160 or GEOS2190.

GEOS3220 Coastal Dynamics, Evolution and Protection
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: GEOS2040/2050 and GEOS2161 or ENV2S2030.

GEOS3221 Environmental Geology
Units: 10
Locations: Callaghan
Focuses on 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 geographical processes and developing the scientific skills that are necessary to understand, and mitigate, environmental problems.
Assumed Knowledge: GEOS2130 or GEOS2140 or GEOS2150.

GEOS3230 Geology Field Course in Carbonate Sediments
Units: 10
Locations: Callaghan
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. Field excursion to Heron Island Research Station Great Barrier Reef occurs before start of semester I.
Assumed Knowledge: GEOS2130

GEOS3240 Geology Field School
Units: 20
Locations: Callaghan
Course for international students commences prior to end of semester one and involves 46 days of field geology visiting Cooma, Central Coast, Wellington, Broken Hill, Coonabarabran and New England Area. 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.

GEOS3250 Geographic Information Systems
Units: 10
Locations: Callaghan
Note: This course is offered subject to sufficient student enrolments.
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. The operation of GIS as a problem solving tool is studied and involves the development of GIS competencies through computer laboratory based practicals. The successful completion of a major problem solving exercise involving the collection and processing of integrated socio-economic, environmental and physical data is a major component of this course.
Assumed Knowledge: GEOS2161

GEOS4110 Geography Honours 4110
Units: 20
Locations: Callaghan
The Honours Program in Geography produces students of the highest standing for securing future research and other career pathways. The course (along with GEOS4120, GEOS4210 and GEOS4220) 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.
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum credit grade average
GEO4111  Geology Honours 4111  
Units: 20  
Locations:  Callaghan  
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  

GEO4120  Geography Honours 4120  
Units: 20  
Locations:  Callaghan  
Forms part of Honours program (along with GEO4110, GEO4121 and GEO4210)  
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  
thematic 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.  
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum  
credit grade average  

GEO4121  Geology Honours 4121  
Units: 20  
Locations:  Callaghan  
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 4210  
Units: 20  
Locations:  Callaghan  
The Honours Program in Geography produces students of the highest standing for  
securing future research and other career pathways. The subject (along with  
GEOS4110, GEOS4121 and GEO4210) 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  
thematic 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.  
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum  
credit grade average  

GEO4211  Geology Honours 4211  
Units: 20  
Locations:  Callaghan  
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.  

GEO4220  Geography Honours 4220  
Units: 20  
Locations:  Callaghan  
The Honours Program in Geography produces students of the highest standing for  
securing future research and other career pathways. The subject (along with  
GEOS4110, GEOS4120 and GEO4210) 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.  
Assumed Knowledge: A major in the appropriate sub-discipline with an minimum  
credit grade average  

GEO4221  Geology Honours 4221  
Units: 20  
Locations:  Callaghan  
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.  

GEO5910  Foundations of Modern Geology  
Units: 20  
Locations:  Callaghan  
This unit provides students with the opportunity to tailor their study by selection of  
topics relevant to their interests and to their proposed area of study in their project.  
Students must choose 20 units of material from the following list of courses available,  
subject to approval by the Head of Discipline.  

This unit provides students with the opportunity to tailor their study by selection of  
topics relevant to their interests and to their proposed area of study in their project.  
Basin Analysis  
Geodynamic Setting of Low Grade Metamorphism  
Crustal Evolution  
Tectonic Setting and P-T-Time Paths  
Coal Utilisation  
Structural Geology and Deformation Processes  
Coal Geology  
Stable Isotopes & Fluid Inclusions  
Application of Sequence  
Gold and/or Base Metals in Metamorphic Environments  
Stratigraphy to Non Marine Environments  
Coastal and Shallow Marine  
Crustal Fluid Migration  
Sedimentology  
Environmental Magnetism  
Palaemagnetism  

Specific details for each topic are available from Geology. Additional topics may also  
be available.  
Assumed Knowledge: Approved degree in science or technology  

GEO5920  Topics in Modern Geology  
Units: 20  
Locations:  Callaghan  
This unit provides students with the opportunity to tailor their study by selection of  
topics relevant to their interests and to their proposed area of study in their project.  
Students may choose topics from the list outlined below, subject to approval by the  
Head of Discipline.  

Basin Analysis  
Geodynamic Setting of Low Grade Metamorphism  
Crustal Evolution  
Tectonic Setting and P-T-Time Paths  
Coal Utilisation  
Structural Geology and Deformation Processes  
Coal Geology  
Stable Isotopes & Fluid Inclusions  
Application of Sequence  
Gold and/or Base Metals in Metamorphic Environments  
Stratigraphy to Non Marine Environments  
Coastal and Shallow Marine  
Crustal Fluid Migration  
Sedimentology  
Environmental Magnetism  
Palaemagnetism  

Specific details for each topic are available from Geology. Additional topics may also  
be available.  
Assumed Knowledge: GEO5910
Assumed Knowledge: 20 units of Greek at 1000 level and comprehension of major Greek classics. Facilitates entry to the other Advanced Greek courses.

GREK2510 Intermediate Greek
Units: 20
Locations: Callaghan
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 (GREK3520, 3530, 3540, 3550).

Assumed Knowledge: 20 units of Greek at 1000 level

GREK3520 Advanced Greek A
Units: 20
Locations: Callaghan
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

GREK3530 Advanced Greek B
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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 an in depth understanding of various aspects of the Greek world enhanced by a sensitive understanding of original Greek literature. This component consists of a supervised thesis for which supervision is by arrangement.

Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GREK4550 Greek Honours II
Units: 20
Locations: Callaghan
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 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
Units: 20
Locations: Callaghan
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 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.

Assumed Knowledge: An undergraduate major sequence in Greek or equivalent.

GREK4570 Greek Honours IV
Units: 20
Locations: Callaghan
This course is studied in conjunction with GREK4540, GREK4550, and GREK4560. The four courses together constitute an Honours program 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. 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.

GRMN1001 Elementary German 1
Units: 10
Locations: Callaghan
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.
The aims of this course are 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
Units: 10
Locations: Callaghan
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

GRMN3271 Advanced German Text Study 1
Units: 10
Locations: Callaghan
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.

GRMN3302 Contemporary German
Units: 10
Locations: Callaghan
The aim of this course is to utilise various media to improve all four of the essential language skills, i.e. listening, speaking, reading, and writing. The course follows on from INTERMEDIATE GERMAN and ADVANCED 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: GRMN3301, GRMN3261 or equivalent

GRMN4015 German Honours 1
Units: 20
Locations: Callaghan
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: 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
Units: 20
Locations: Callaghan
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: 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.
GRMN4017 German Honours 3
Units: 20
Locations: Callaghan
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-structured 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.

GRMN4018 German Honours 4
Units: 20
Locations: Callaghan
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-structured 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.

GSBR6001 Advanced Topics in International Business
Units: 10
Locations: WebLearn
City Precinct
Examines emerging issues that have an impact on the operation of business enterprises in the current international business environment. The global business environment is rapidly evolving and this course aims to stay abreast of developments by offering critical appraisal of contemporaneous sources. Topics to be investigated will be dictated by the significant contemporary debates but may include the changing economic balance of the Asia-Pacific region, the ongoing process of developing regional economic zones, globalisation of business operations and its impact on international business environment. The roles of government regulation and community collaboration, as they impact on businesses operating across cultures, are also explored and current reforms of corporate governance are analysed.
Assumed Knowledge: GSBS6200 Accounting & Financial Management
GSBS 6200 Organisational Behaviour
GEBU 6010 Management Information Systems or
GEBU 6490 eBusiness for Managers or
GEBU 6020 Strategic Business Systems
Hartford Singapore
Institut WIRA - Malaysia
Unworld - Sydney City
Adopts a strategic market management framework to review key issues such as market segmentation, consumer behaviour, marketing research, pricing strategy, channels of distribution, product strategy and promotion. Domestic and international case studies are used, and the opportunity is provided to apply the concepts to work situations through the use of progressive assignment.
Assumed Knowledge: Nil

GSBR6010 Global Corp Governance & Social Responsibility
Units: 10
Locations: Off Campus
WebLearn
City Precinct
Examines how corporations respond to ethical dilemmas whilst taking stock of the needs of their various stakeholders and the expectations of national governments. This requires an understanding of the social responsibilities of business in a global environment. The roles of government regulation and community collaboration, as they impact on businesses operating across cultures, are also explored and current reforms of corporate governance are analysed.
Assumed Knowledge: GSBS6200 Accounting & Financial Management
GSBS 6200 Organisational Behaviour
GEBU 6010 Management Information Systems or
GEBU 6490 eBusiness for Managers or
GEBU 6020 Strategic Business Systems
Hartford Singapore
Institut WIRA - Malaysia
Unworld - Sydney City
Adopts a strategic market management framework to review key issues such as market segmentation, consumer behaviour, marketing research, pricing strategy, channels of distribution, product strategy and promotion. Domestic and international case studies are used, and the opportunity is provided to apply the concepts to work situations through the use of progressive assignment.
Assumed Knowledge: Nil

GSBS6020 Organisational Behaviour
Units: 10
Locations: Hartford, Hong Kong
WebLearn
City Precinct
Hartford Singapore
Institut WIRA - Malaysia
Unworld - Sydney City
This course introduces students to the nature of human behaviour at work. It is divided into three parts: individual behaviour, group processes and organisational processes. As a foundation course in the MBA and the Master of Human Resource Management and Industrial Relations, it provides students with learning skills required in other courses such as writing and presentation, critical analysis and argument and group work skills.
Assumed Knowledge: Nil

GSBS6021 Consumer Behaviour
Units: 10
Locations: Hartford, Hong Kong
WebLearn
City Precinct
Institut WIRA - Malaysia
Unworld - Sydney City
Builds on the more general requisite marketing concepts by introducing students to the most current principles, advanced concepts and practices of consumer behaviour.
Assumed Knowledge: GSBS6010 - Marketing Concepts or equivalent

GSBS6030 Industrial Relations
Units: 10
Locations: City Precinct
Institut WIRA - Malaysia
This subject introduces the major features of employment relations in Australia, examining the interaction of people in the workplace and the way in which external institutions impinge on this interaction. An appraisal of the degree to which the employment relationship is governed by common or conflicting interests provides a theoretical perspective.
Assumed Knowledge: Nil

GSBS6031 Market Research
Units: 10
Locations: City Precinct
Institut WIRA - Malaysia
Emphasises the critical role of research in market decision making. Discussion focuses on the strengths and limitations of various means of collecting and analysing market information. Examples of market research are examined and students are required to design a market study in association with a local organisation.
Assumed Knowledge: GSBS6010 - Marketing Concepts or equivalent
This course will consider the development of strategic human resource management theory, review current HRM practices and develop a series of frameworks designed to enhance students' understanding of HRM functions. Specific attention will be given to the development of HRM theory, the link between HRM and business strategy, HR planning, recruitment, selection, employee development, performance management, remuneration and occupational health and safety. In addition, the course also exposes students to some emerging issues including the role of HRM in changing environments and international HRM.

Students will be involved in a problem-solving process of research, diagnosis, analysis and implementation by examining real life situations and applications.

**Assumed Knowledge:** Nil.

**GBSS6040** Human Resource Management

**Units:** 10
**Locations:** Hartford, Hong Kong
**WebLearn**

**City Precinct**
**Hartford Singapore**
**Institut WIRA - Malaysia**
**Uniworld - Sydney City**

The purpose of the course is to provide an opportunity for students to understand the principles of all facets of international marketing.

**Assumed Knowledge:** GSBS6010 - Marketing Concepts or equivalent.

**GBSS6055** International Human Resource Management

**Units:** 10
**Locations:** City Precinct
**WebLearn**
**City Precinct**
**Hartford Singapore**
**Institut WIRA - Malaysia**
**Uniworld - Sydney City**

The course provides an overview of the comparative and human resource management issues associated with operating an international business organisation. In doing so, the course draws on a cross-section of the literature in human resource management, organisational behaviour and comparative management.

**Assumed Knowledge:** GSBS 6040 Human Resource Management and GSBS6020 Organisational Behaviour.

**GBSS6060** Strategic Management

**Units:** 10
**Locations:** City Precinct
**WebLearn**

This course is the capstone course in the MBA program. When students reach this final stage of the program, they are expected to have a broad range of knowledge and skills. The course is designed to inform students of issues and perspectives in strategic management and corporate policy as well as test knowledge and skills through a range of possible challenges such as debates and case studies participation in a corporate policy game or a management consultancy in addition to an exam.

**Assumed Knowledge:** 80 units of 600 level courses.

**GBSS6070** Teamwork and Leadership

**Units:** 10
**Locations:** City Precinct
**Institut WIRA - Malaysia**

Provides students with an in-depth analysis of team or group development and leadership within organisation at both theoretical and practical levels.

**Assumed Knowledge:** GSBS6020 - Organisational Behaviour (or Equivalent)

**GBSS6090** The Politics of Management and Decision Making

**Units:** 10
**Locations:** City Precinct
**Institut WIRA - Malaysia**

Deals with the political nature of management and decision making through the examination of the power relationships within management and between management and non-management. Concepts include personal and group power relationships, empowerment, dependency, mobilisation of bias, manipulation and ethics. Teaching is seminar based with extensive use of case studies.

**Assumed Knowledge:** GSBS6020.

**GBSS6100** Negotiation and Advocacy

**Units:** 10
**Locations:** City Precinct

Students will develop competencies in both negotiation and advocacy within the context of current Industrial Relations legislation and alternative dispute resolution procedures operating in workplaces, as well as being exposed to relevant theories. The topics of unfair dismissal law and tribunal procedure will form the basis for the advocacy component. The workshops in advocacy conclude in a mock arbitration to assess students' practical demonstration of advocacy skills.

**Assumed Knowledge:** It is expected that students will have a good understanding of the Australian Industrial Relations system.

**GBSS6110** Organisational Effectiveness

**Units:** 10
**Locations:** City Precinct
**Institut WIRA - Malaysia**
**Uniworld - Sydney City**

Introduces students to various perspectives on organisational effectiveness. The course deals with the sociological aspects of organisation theory, ranging from classicist to post-modern theory, and applies these theories to the workplace.

**Assumed Knowledge:** GSBS6020 Organisational Behaviour or equivalent.

**GBSS6111** Services Marketing

**Units:** 10
**Locations:** Central Coast
**WebLearn**
**City Precinct**
**Institut WIRA - Malaysia**

This course addresses the distinct needs and problems of service organisations, both in relation to consumer and business markets, in the domestic, international and global perspectives. Main areas covered include the nature of services and consumer involvement is service processes, relationships and consumer behaviour, STP analysis, the marketing mix and strategy and planning (including loyalty, customer service, customer complaints and service recovery.

There is an emphasis on the case method complemented by readings and weekly group debates of current events in services marketing.

**Assumed Knowledge:** GSBS6010 - Marketing Concepts & Strategy.

**GBSS6120** Managing Organisational Change

**Units:** 10
**Locations:** City Precinct
**WebLearn**
**Institut WIRA - Malaysia**
**Uniworld - Sydney City**

The purpose of the course is to offer students interested in the field of management a course which examines the processes of change and its affect on the strategic dynamics of an organisation.

**Assumed Knowledge:** GSBS6020 - Organisational Behaviour (or Equivalent).

**GBSS6130** Corporate Finance

**Units:** 10
**Locations:** City Precinct
**WebLearn**
**Institut WIRA - Malaysia**
**Uniworld - Sydney City**

The course provides an introduction to corporate financial theory and application of theory to problems relevant to managers and is designed as a core subject in the Master of Business Administration. Topics covered will include: specification of corporate objectives, evaluation of investment projects, alternative sources of finance, risk, the operation of capital markets, the financing decision, the dividend decision, and the cost of capital.

**Assumed Knowledge:** Nil.

**GBSS6131** Management Issues

**Units:** 10
**Locations:** Callaghan

Offers students an appreciation of the type, processes, and potential impacts of specific issues on contemporary management practice. The course analyses the applicability of traditional and current management theories to modern social and organisational issues that are contempored by their dynamism, short lead times, and requirement for decisive immediate responses.

**Assumed Knowledge:** GSBS6020 Organisational Behaviour or GSBS6030 - Employment Relations (or Equivalent).

**GBSS6132** Cross Cultural Marketing

**Units:** 10
**Locations:** City Precinct
**Institut WIRA - Malaysia**

This course builds on the more general requisite general marketing, International Marketing and consumer behavioural theories. The main aim of the course is to equip marketing students with the knowledge and skills which are necessary for them to interact effectively with members of cultures other than their own, more specifically in the context of International Business relations.

Essentially, the course is concerned with considering the "people issue" i.e. the challenges of marketing between and within different cultures, in particular in regard to the "Cross Cultural problems" which invariably arise in International Business relationships.

**Assumed Knowledge:** This course assumes students have at least an understanding of Marketing Concepts and Strategies as well as Consumer Behavioural principles. Knowledge of International marketing is desirable but not essential.
Guides to Undergraduate and Postgraduate Courses - 2003

GSBS6133 Relationship Marketing
Units: 10
Locations: Callaghan
WebLearn
City Precinct

Recognises that relationship marketing is increasingly being seen as an integral part of the marketing management task in modern business organizations. Relationship marketing focuses on the concepts and issues which involve attracting, retaining and enhancing long-term relationships with customers. The principal aim of this course is to provide students with a detailed knowledge of the theory and practice of relationship marketing in the context of a business organization operating within a dynamic environment.

Assumed Knowledge: GSBS6010 Marketing Concepts and Strategies.

GSBS6140 Investments & Risk Management
Units: 10
Locations: City Precinct

Offered in 2003, Trimester 2. Presents the theory, concepts, tools, techniques and applications of investment and risk management. Investment concerns financial decision-making about where to place wealth to provide for future returns. Risk management concerns the use of financial techniques and derivative securities to manage individual and organisational financial risk.

Assumed Knowledge: GSBS6130 - Corporate Finance

GSBS6150 Individual Financial Planning
Units: 10
Locations: City Precinct

Financial Planning is an emerging profession in Australia. This course provides a broad overview of the nature and scope of individual financial planning in the Australian context and 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: Nil

GSBS6152 New Enterprise Development
Units: 10
Locations: City Precinct

New Enterprise Development examines the critical issues and practical problems associated with evaluating the viability, setting up and management of an owner-operated new business. The course addresses essential elements of small business success, the challenges of starting a new business and the basics of planning and managing the startup.

Assumed Knowledge: Nil

GSBS6160 Applied Finance Research Project
Units: 20
Locations: City Precinct

Available to approved students only. In 2002 available in trimesters 1, 2 and 3. Provides students in the Master of Applied Finance degree with the opportunity to undertake a detailed research project in applied finance. The project will allow the student to thoroughly investigate an issue in applied finance and will develop research and reporting skills. Students will be encouraged to select a topic that overlaps with their work environment.

Assumed Knowledge: Enrolment in the Project requires the approval of the Head of Department. Students are expected (1) to be proficient in research methodology (e.g. completed ECRM401 or equivalent) and (2) possess an average grade point above 5 or above and/or relevant industry experience.

GSBS6162 Entrepreneurial Management
Units: 10
Locations: City Precinct

Explores the nature and practice of entrepreneurship with a view to providing business with a greater capacity to achieve. Topics include the role of the entrepreneur in business, entrepreneurs and the managerial role, analysis of the business life cycle and growth stages and implications for management, intrapreneurship, the female entrepreneur.

Assumed Knowledge: GSBS6010 - MARKETING CONCEPTS

GSBS6172 Small Business Management
Units: 10
Locations: City Precinct

The course analyses the key issues that influence the growth and development of small and medium sized businesses (SME's). The course examines the context in which they operate and the strategies, resources and processes by which they can successfully compete against large competitors. Students successfully completing this course will enhance their knowledge of the processes, problems and opportunities involved in developing such enterprises.

Assumed Knowledge: Nil

GSBS6190 Human Resource Development
Units: 10
Locations: City Precinct

Institut WIRA - Malaysia

This course ranges from the broader aspects of HRD, such as the strategic role of HRD, to the more individualised aspects of HRD, such as influences on employee behaviour. From an overview of HRD, the course covers the foundations of HRD, HRD and the Training Process, Employee Development Processes and Programs and some of the policies driving aspects of the external labour market.

Assumed Knowledge: GSBS6020 - Organisational Behaviour

GSBS6200 Accounting and Financial Management
Units: 10
Locations: Hartford, Hong Kong

WebLearn
City Precinct
Hartford Singapore
Institut WIRA - Malaysia

Unworld - Sydney City

This course introduces accounting and financial management to non-accountants. It aims to provide an understanding of the main accounting concepts and the practical use of accounting and financial information for decision making and the achievement of business goals. Students are exposed to a variety of topics including introduction to accounting and financial management concepts; measuring and reporting financial position, financial performance and cash flows; understanding, analysis and interpretation of company financial statements; cost-solution decision making; and financial management.

Assumed Knowledge: Nil

GSBS6201 Gender and Work In Organisations
Units: 10
Locations: Callaghan

The objective of this course is to develop an understanding of gender as an issue within work and organisations. The course will examine the legislative and policy frameworks relevant to gender issues and their impact on organisational policies and practices.

Assumed Knowledge: IRHR502 or IRHR503 or IRHR504

GSBS6210 Managerial Accounting
Units: 10
Locations: City Precinct

This course provides an introduction to managerial accounting for non-accountants. It presents management accounting information as a crucial communication tool for managerial decision making within the context of both product and service oriented organizations. Throughout the course, managerial accounting is viewed as a key component of multi-disciplinary management with accountants working as part of a team to resolve questions of costing, pricing, planning, controlling, and evaluating performance within an organization.

Assumed Knowledge: No

GSBS6230 Asian Entrepreneurship
Units: 10
Locations: Hartford, Hong Kong

City Precinct
Hartford Singapore
Institut WIRA - Malaysia

This course introduces entrepreneurship in an Asian context, developing students’ knowledge regarding leadership, behavioural aspects of the entrepreneur, innovation, cross cultural issues and new venture planning and management. The course is also designed to provide opportunities for students to develop and practice important skills regarding entrepreneurship through the delivery of course lectures and workshops.

Assumed Knowledge: NA

GSBS6270 Industrial Marketing
Units: 10
Locations: City Precinct

Industrial markets and the marketing environment are explained. Organisational buying and buyer behaviour is covered. Students learn how to formulate product planning, channel strategy, marketing communication planning and pricing policies. Industrial marketing in the international environment will also be dealt with throughout the course. There is an emphasis on the case method.

Assumed Knowledge: GSBS6010 - MARKETING CONCEPTS

GSBS6300 Advertising Management
Units: 10
Locations: Off Campus
WebLearn
City Precinct

This course 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 do not 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. This course will encourage students to use creative thinking throughout the semester. This will be discussed later in the course outline.

Assumed Knowledge: GSBS6010 - MARKETING CONCEPTS
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units:</th>
<th>Locations:</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSBS6370</td>
<td>Strategic Marketing Management</td>
<td>10</td>
<td>City Precinct</td>
<td>Allows students to understand and work with a set of useful and important concepts and analytical tools in marketing management. This will involve the use of the MARKSTRAT3 simulation programme, lectures and extensive group work. The MARKSTRAT3 simulation programme is the most recent and highly effective tool to further develop an understanding of strategic marketing concepts such as portfolio strategy, segmentation and positioning strategy, as well as operational management. <strong>Assumed Knowledge</strong>: This is a capstone course in marketing and it is presumed that students will have a thorough knowledge in the following courses: GSBS6010 Marketing Concepts &amp; Strategy; GSBS6021 Consumer Behavior; GSBS6031 Market Research.</td>
</tr>
<tr>
<td>GSBS6480</td>
<td>International Business</td>
<td>10</td>
<td>Hartford, Hong Kong, City Precinct, Hartford Singapore, Uniworld - Sydney City</td>
<td>This course focuses on a corporation’s or a firm’s relationships with its resources, capabilities and its environment. The environment is divided into three aspects, social and cultural, government and political, economic and technological. The course will introduce students to the management instruments of particular relevance to a corporation/firm doing business internationally. The course explores the particular challenges of economic integration and globalization, which an international business face. <strong>Assumed Knowledge</strong>: Nil</td>
</tr>
<tr>
<td>GSBS6481</td>
<td>International Business Strategy</td>
<td>10</td>
<td>Off Campus, WebLearn</td>
<td>Analyses the competitive strategies that firms and corporations use in international business. The course provides a comprehensive analysis of a range of issues dealing with international business strategies, such as: multi-domestic, international, global and transnational strategies. The course uses theoretical tools, case studies, and empirical evidence to evaluate international business strategy in the context of international joint ventures, international strategic alliances, international mergers, and cross border acquisitions. <strong>Assumed Knowledge</strong>: GSBS 6480 International Business</td>
</tr>
<tr>
<td>GSBS6500</td>
<td>Project in Accounting and Financial Management</td>
<td>10</td>
<td>City Precinct</td>
<td>Only available to approved students. Available in 2002: Trimester 1, 2, 3. Encourages students to undertake a major applied project in Accounting and Financial Management. A research topic will be chosen by the student in consultation with academic staff. The student will be expected to work under the supervision of a nominated supervisor. The research project will involve producing a 12,500 word report. <strong>Assumed Knowledge</strong>: NA</td>
</tr>
<tr>
<td>GSBS6501</td>
<td>Project in Human Resource Management and Industria</td>
<td>10</td>
<td>City Precinct</td>
<td>This course is offered by trimester. To encourage advanced students to undertake a major applied project in IR &amp; HRM. It is only available to students with approval of the Head of School. <strong>Assumed Knowledge</strong>: GSBS6020 - Organisational Behaviour and GSBS6030 - Industrial Relations Or Other demonstrated capacity to undertake project work in Industrial Relations and/or Human Resource Management And Approval from Head of School</td>
</tr>
<tr>
<td>GSBS6502</td>
<td>Project in Marketing</td>
<td>10</td>
<td>City Precinct</td>
<td>Only available to students with approval of Head of School. Offered on trimester system. Encourages advanced students to undertake a major applied project in marketing. The objectives will include completing a literature review, defining a marketing problem in a business situation, identifying alternative solutions and writing up a report for top management. As such the course is designed to develop problem solving and written communication skills. Students are assigned a supervisor and the topic is selected in consultation with the supervisor and generally reflects the student’s research interests. <strong>Assumed Knowledge</strong>: GSBS6010- Marketing Concepts or equivalent GSBS6030 - Market Research or equivalent or other demonstrated capacity to undertake project work in marketing and approval from the Head of Graduate School of Business.</td>
</tr>
</tbody>
</table>
HIST1010 Foundations of Australian Society
Units: 10
Locations: Callaghan
Surveys the development of colonial Australia until the time of Federation. The subject will be divided into different sections, which will constitute the found. 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.
Assumed Knowledge: None

HIST1020 Australia in the Twentieth Century
Units: 10
Locations: Callaghan
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

HIST1050 Medieval and Early Modern Europe
Units: 10
Locations: Callaghan
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, international relations and trade, and the development of modern science, 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
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None

HIST1070 The World in the Twentieth Century
Units: 10
Locations: Callaghan
The World in the Twentieth Century provides students with a broad base of knowledge on events and issues shaping the world during the twentieth century, under the themes of global interrelations, notions of identity, the rise of mass societies and environmental issues. It focuses on developments in all continents, rejecting a Euro or United States-centric approach. The course consists of lectures and tutorials, and assessment takes the form of essays and a test.
Assumed Knowledge: None

HIST3000 American History to the Civil War
Units: 20
Locations: Callaghan
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 1000 level or equivalent.

HIST3010 American History after the Civil War
Units: 20
Locations: Callaghan
Surveys the domestic history and foreign relations of the U.S. since 1865. Topics include: reconstruction, industrialisation, immigration, progressive reform, the 1920s, the Ku Klux Klan, the Great Depression, the New Deal, Civil Rights, the liberal experiments of the 1960s, Malcolm X and Black Power, feminism, and the conservative resurgence beginning with the election of Richard Nixon in 1968. In foreign policy, the main theme is the tension between 'isolationism' and 'internationalism,' paying specific attention to America's acquisition of an empire in the late nineteenth century, US entry into the World Wars, the Cold War and the Gulf War.
Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3030 History, War, and Film
Units: 10
Locations: Callaghan
Cinema is a powerful medium for the interpretation of the past. Some film biographies, period pieces, and documentaries have provided us with insightful information about human history; others have distorted issues or served as propaganda. This course will study the challenges and promises of film as historical artifact by focusing on cinematic representations of war (from the First and Second World Wars, to post-war colonial struggles, through to the rise of ethnic consciousness in the twentieth century). The objective is to introduce students to film as historical documents and to help them acquire specific critical tools for incorporation into the study of history.
Assumed Knowledge: There is no assumed knowledge in either history or film although it is preferred that students have done at least 10 units at first year level.

HIST3120 Modern China
Units: 20
Locations: Callaghan
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, revolutionary 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 1000 level or equivalent.

HIST3210 Australian Foreign Relations: Australian & Asia
Units: 10
Locations: Callaghan, Central Coast
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 1000 level or equivalent.

HIST3220 Issues in Australian History
Units: 20
Locations: Callaghan, Central Coast
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 research, 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.

HIST3270 Crime and Punishment in Europe
Units: 10
Locations: Callaghan
This course has three principal strands: the meaning and incidence of 'crime', the administration of justice, and penal policy. These areas will be studied over several centuries, and especially 1500-1900, 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 change in labelling and punishing crime? And second, how should we interpret the 'modern' transformation in the administration of criminal law: was it 'civilising reform' or an economy of industrial discipline? 
Assumed Knowledge: 20 units in History at 1000 level or equivalent.
HIST3300 British History I

Units: 20

Locations: Callaghan

The English killed their king in 1649. The act of regicide is a focal point for this course, which deals with the development of the English nation state and its relationship with the protestant cause. It begins with the establishment of Tudor legitimacy under Henry VII, and then explores the Reformation and the growth of the nation under Henry VIII. Elizabeth I seems to unite England through the cult of ‘Gloriana’, and her successor as a female monarch will be examined before proceeding to the political and religious divisions of the following century, which culminated in civil war and revolution.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3310 British History II

Units: 20

Locations: Callaghan

This course examines the ways in which English men and women - the rich, the middling and the poor - lived, loved, worked and played during a period which some historians have dubbed as the age of the ‘great transformation’. Due weight will be given to the broad pattern of population growth, and the re-structuring of society. The lectures and tutorials which comprise the program will be designed to bring the past to life by introducing us to its inhabitants: real people who left their traces in words, pictures and material objects. The story will unravel as a mystery tour rather than a journey with a known destination, since we will have to discover the route ourselves, using these traces as signposts. Students who complete the course will therefore develop their ‘detective skills’, in addition to locating part of the Australian cultural inheritance.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3460 Early Modern Europe

Units: 20

Locations: Callaghan

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 units in History at 1000 level or equivalent.

HIST3480 Frontiers of Labour

Units: 10

Locations: Callaghan

Covers the labour history of major mining and industrial towns in Australia from 1880. It considers the growth and development of these isolated and distinctive communities and communities in their history, as the clash between capital and labour, working conditions, ethnicity and gender, environmental damage, mining and indigenous issues, the effects of deindustrialisation, and plant closure.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3490 History of Australian Sport

Units: 10

Locations: Callaghan

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, will detail the history of sport in pre-industrial and post-industrial England, and will then 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.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3520 Modern Japan

Units: 20

Locations: Callaghan

Covers the history of Japan from the fall of the Tokugawa in the mid-nineteenth century to the death of Emperor Hirohito in 1989. It aims to familiarise students with the development of the modern Japanese nation in political, ideological, economic, cultural and social areas. The course presents both well-worn (and unresolved) historical debates, such as the growing influence of the military on the government in the 1930s, and new areas of historical interest, such as images of modernity in the 1920s. It caters for those with an interest in politics and revolutionary processes as well as for those with interest in culture and representation.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3600 Women's History, 500-1750

Units: 10

Locations: Callaghan

Aims to introduce students to the rich scholarly literature relating to women in medieval and early modern Europe. It provides a chronological and thematic survey of the field from early medieval times to the Reformation. Topics to be covered include Afro-Saxon women, women in the medieval church, scholarly women, the aristocratic lady and courtly love, prostitutes, sex and the family, mysteries and heretics, such as Marguerite Porete and Joan of Arc, children, witches and the witch hunts and women in the Reformations and the English Civil War.

Assumed Knowledge: 20 units in History at 100 level or equivalent.

HIST3640 Fascism, War and Genocide, 1900-1945

Units: 20

Locations: Callaghan

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 fascism? 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. It also looks at the debates concerning the Jewish Holocaust and differing interpretations of fascism and its representation.

Assumed Knowledge: 20 units of History at 1000 level or equivalent.

HIST3660 Heresy and Witchcraft in the Medieval World

Units: 10

Locations: Callaghan

This course explores belief and deviancy in medieval Europe. After identifying religious and cultural orthodoxy, it embarks upon an analysis of dissent. Divergence from sanctioned ideology and ritual ranged from the spiritual and social challenge of medieval heresies, through popular beliefs in the magical powers of people and objects, to the witchcraze of the 16th and 17th centuries. Using a wide variety of original documents and historical interpretations, the subject aims to understand and explain conflicting belief systems and the rise of intolerance in the pre-modern world.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST3670 The French Revolution and Napoleon

Units: 20

Locations: Callaghan

This course provides a comprehensive overview of the origins and development of the French Revolution and Napoleon, from the end of the Ancien Regime (1788) to the fall of Napoleon at the battle of Waterloo (1815). This may be offered as a Summer School course.

Assumed Knowledge: 20 units in History at 1000 level or equivalent.

HIST4050 History Honours I

Units: 20

Locations: Callaghan

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 higher-level independent studies which will be useful 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.

HIST4060 History Honours II

Units: 20

Locations: Callaghan

HIST4060 must be studied in conjunction with HIST4045, 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 higher-level independent studies which will be useful 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.
HIST4080 History Honours IV
Units: 20
Locations: Callaghan
HIST4080 must be studied in conjunction with HIST4090, HIST4060, and HIST4070, 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 higher-level independent studies which will be useful 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 subjects as a major sequence for the BA. Students must have qualified for admission to the BA or equivalent degree.

HIST6100 Historiography
Units: 10
Locations: Callaghan
An introduction to the theories of history emphasising the evolution of ideas and different approaches to the discipline. This course will inform discussion on the NSW senior modern history extension course in historiography and is of value for history teachers nationally.
Assumed Knowledge: Undergraduate degree in Education and/or Arts.

HIST6110 Australian History in Global and Regional Contexts
Units: 10
Locations: Callaghan
The course aims to provide history teachers with an understanding of the ways in which global and regional trends have impacted on historical events in Australia. Examples will include a survey of imperialism and colonisation; the development of global organisations such as the United Nations; and regional security and trade issues.
Assumed Knowledge: Undergraduate degree in Education and/or Arts.

HIST6120 Modern China
Units: 20
Locations: Callaghan
The course covers the history of China from the decline of the Qing Empire in the 19th 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, revolutionary processes and popular movements in Imperial, Republican and Communist China. The lectures and tutorials will introduce the main themes of the course; the choice of essay topic encourages students to specialize in that aspect of the course which most interests them - be it in political, cultural, or social history.
Assumed Knowledge: Completion of an undergraduate degree.

HIST6130 History and the Internet
Units: 10
Locations: On-line from Callaghan
This course examines the history of communications and the internet. It also investigates applications of multimedia, the internet and the online environment for history, heritage and museum studies purposes.
Assumed Knowledge: Undergraduate degree in any field; basic knowledge of computers and access to the internet.

HIST6210 The History of Aust. Foreign Relations with Asia
Units: 10
Locations: Callaghan
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’. Themes will include trade with the region; bilateral relations with China, Japan and Indonesia; human rights, education and immigration; regional security and the drug trade; security problems over New Guinea, Portuguese Timor and Malaysia; and nuclear proliferation in the region.
Assumed Knowledge: Completion of an undergraduate degree.

HPRO6710 Introduction to Health Promotion
Units: 10
Locations: Callaghan
Students will learn to critically explain the rationale for health promotion and the health needs of population groups.
Assumed Knowledge: n/a

HPRO6720 Health Promotion Settings
Units: 10
Locations: Callaghan
This subject aims to provide students with an understanding of issues and skills involved in the application of health promotion in a variety of community settings.
Assumed Knowledge: n/a

HIST6110 Policy and Prevention in the Drug/Alcohol Field
Units: 10
Locations: Callaghan
This subject provides an understanding of the prevention paradigm in the drug and alcohol field, and of the skills required to reduce alcohol and drug-related harm. The subject addresses topics such as drug and alcohol policies, and approaches to drug and alcohol prevention.
Assumed Knowledge: n/a

HPRO6740 Community Health Promotion
Units: 10
Locations: Callaghan
This subject provides skills in undertaking community wide health promotion programs.
Assumed Knowledge: n/a

HPRO6750 Health Promotion Strategy Selection
Units: 10
Locations: Callaghan
This subject provides students with skills in the design of health promotion programs and in the selection of intervention strategies.
Assumed Knowledge: n/a

HPRO6760 Health Promotion Program Evaluation
Units: 10
Locations: Callaghan
This subject provides students with an understanding of the need for, and skills in determining whether health promotion interventions are effective in achieving their stated goals, and are acceptable to the community.
Assumed Knowledge: n/a

HPRO6770 Health Promotion Program Management/Health Economics
Units: 10
Locations: Callaghan
Enrolment in this subject precludes enrolment in CCEB631.
Assumed Knowledge: n/a

HPRO6780 Health Promotion Project
Units: 10
Locations: CCEB
Distance Education - Callaghan
Candidates will work on an individual basis with a designated supervisor to develop and present a research protocol in an area of their own interest.
Assumed Knowledge: N/A

HPRO6790 Health Promotion Research Protocol
Units: 10
Locations: CCEB
Distance Education - Callaghan
Candidiates will work on an individual basis with a designated supervisor to develop and present a research protocol in an area of their own interest.
Assumed Knowledge: Completion of, or concurrent enrolment in EPID6240 Epidemiology A, BIO6910 Biostatistics A, HPRO6750 Health Promotion Strategy Selection, HPRO6760 Health Promotion Program Evaluation.

HPRO6800 Minor Thesis - Part 1
Units: 10
Locations: Callaghan
Provides students with an opportunity to synthesise the health promotion and research skills they have obtained throughout the course by undertaking a limited scale research project.
Contact Hours: TBA
Assumed Knowledge: Student must have completed the Graduate Diploma in Health Promotion, including HPRO6790A/B-Health Promotion Research Protocol.

HPRO6810 Minor Thesis - Part 2
Units: 10
Locations: Callaghan
Provides students with an opportunity to synthesise the health promotion and research skills they have obtained throughout the course by undertaking a limited scale research project.
Assumed Knowledge: Student must have completed the Graduate Diploma in Health Promotion, including HPRO6790A/B-Health Promotion Research Protocol.

HPRO6820 Minor Thesis - Part 3
Units: 10
Locations: Callaghan
Provides students with an opportunity to synthesise the health promotion and research skills they have obtained throughout the course by undertaking a limited scale research project.
Assumed Knowledge: Student must have completed the Graduate Diploma in Health Promotion, including HPRO6790A/B-Health Promotion Research Protocol.
HPRO6830 Minor Thesis - Part 4
Units: 10
Locations: Callaghan
Provides students with an opportunity to synthesise the health promotion and research skills they have obtained throughout the course by undertaking a limited scale research project.
Assumed Knowledge: Must have completed the Graduate Diploma in Health Promotion, including HPR06790A/B - Health Promotion Research Protocol.

HPRO6840 Supervised Reading
Units: 10
Locations: CCEB
This course is only available to continuing students enrolled in women's health programs. This course aims to provide candidates with an introduction to health promotion. At the completion of the course, candidates will be able to: explain critically the rationale for health promotion; explain the need for goal and target setting; determine the health needs of population groups; and understand the pattern and extent of social health inequalities. Each module will use case studies from women's health. Learning materials and resources will be mailed to students.
Assumed Knowledge: n/a

HPRO6870 Prevention and Promotion in Women's Health
Units: 10
Locations: Callaghan
This course aims to provide students with an opportunity to develop a course of study in a topic of their own choosing.
Assumed Knowledge: n/a

HPRO6880 Strategies to Improve Women's Health
Units: 10
Locations: Callaghan
This course aims to provide students with an opportunity to develop a course of study in a topic of their own choosing.
Assumed Knowledge: n/a

HPRO6890 Women's Health Program Evaluation
Units: 10
Locations: Callaghan
This course aims to provide students with an opportunity to develop a course of study in a topic of their own choosing.
Assumed Knowledge: n/a

HSS388 Young People & the State
Units: 10
Locations: Central Coast
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 a focus of specific interest. 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: SPSW101C or HSS180

HUBS1102 Anatomy for Speech Pathology
Units: 10
Locations: Callaghan
Aims at providing students with a thorough understanding of the anatomy of the structures that are involved in the production of speech. The course focuses on the anatomy, design and function of structures in the head, neck and thorax as they pertain to speech production.
Assumed Knowledge: Nil

HUBS1104 Functional Anatomy for Physiotherapy I
Units: 10
Locations: Callaghan
An introduction to the functional anatomy of the human body with an emphasis on the major components of the musculoskeletal system. This course contributes to the broad biomedical science foundation required for physiotherapy professional studies and provides the basis for later studies in functional anatomy.
Assumed Knowledge: Nil

HUBS1202 Human Genomics and Biomolecular Analysis
Units: 10
Locations: Callaghan
This course represents a blend between fundamental concepts and current issues in molecular medicine. The course focuses on the relationships between structure, function and analysis of Proteins and Nucleic Acids as applied to human disease and provides an introduction to modern concepts of Genomic structure, function and analysis arising from the Human Genome project.
Assumed Knowledge: None. This is a self contained level 1 course

HUBS1401 Human Bioscience 1A
Units: 10
Locations: Callaghan
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

HUBS1402 Human Bioscience 1B
Units: 10
Locations: Callaghan
Builds on Human Bioscience 1A and includes the study of the cell and the body systems, including the gastrointestinal, integumentary, respiratory, cardiovascular, renal, musculoskeletal, nervous and endocrine systems. The emphasis is on the integration and control of cells and the body systems.
Assumed Knowledge: Students are assumed to have completed HUBS1401 (Human Bioscience 1A).

HUBS1407 Human Bioscience 1 (Nursing)
Units: 10
Locations: Callaghan, Gosford Hospital
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.
Assumed Knowledge: Nil

HUBS1410 Occupational Health 1
Units: 10
Locations: Callaghan
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

HUBS1411 Sports Science 1
Units: 10
Locations: Callaghan
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

HUBS1412 Human Anatomy and Physiology 1 (Part 1)
Units: 10
Locations: Callaghan
This course provides students with a foundation study in the life sciences with emphasis on human anatomy and physiology at cellular and systems levels.
Assumed Knowledge: Nil

HUBS1413 Human Anatomy and Physiology 1 (Part 2)
Units: 10
Locations: Callaghan
Builds on a foundation course offered in semester 1 that extends their understanding of the anatomy and physiology of the human body and provides an emphasis on control and regulation of the human body systems.
Assumed Knowledge: HUBS1412

HUBS1414 Anatomy & Physiology 1 for OT (Part 1)
Units: 10
Locations: Callaghan
This course provides students with a foundation study in the life sciences with emphasis on human anatomy and physiology at cellular and systems levels.
Assumed Knowledge: Nil

HUBS1415 Anatomy & Physiology 1 for OT (Part 2)
Units: 10
Locations: Callaghan
Builds on a foundation course offered in semester 1 that extends the understanding of the anatomy and physiology of the human body and provides an emphasis on control and regulation of the human body systems.
Assumed Knowledge: HUBS1414
HUBS1505 Experimental Bases of Human Function
Units: 10
Locations: Callaghan
Provides an introduction to the underpinning of physiological, pharmacological and anatomical science methodologies. 50% of the course will be devoted to biostatistics and 50% will introduce the student to the functional concepts that underlie signals and their propagation in the body and the methods by which these can be quantified.
Assumed Knowledge: Nil

HUBS2010 Human Bioscience 2 (Nursing)
Units: 10
Locations: Calaghan
Central Coast
Gosford Hospital
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
Units: 10
Locations: Callaghan
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 courses, 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: HUBS1403

HUBS2102 Human Anatomy, Physiology and Pathology 2B
Units: 10
Locations: Callaghan
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 courses, 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: HUBS1403 and HUBS1403B (HUBS103)

HUBS2104 Functional Anatomy for Physiotherapy II
Units: 10
Locations: Callaghan
An in-depth examination of the functional anatomy of the cardiovascular, pulmonary, lymphatic and nervous systems of the human body. This course contributes to the broad biomedical science foundation required for physiotherapy professional studies and provides the basis for later studies in the pathobiology of these systems.
Assumed Knowledge: HUBS1104

HUBS2105 Sports Science 2
Units: 10
Locations: Callaghan
Consists of two streams aimed at providing students with knowledge in musculoskeletal anatomy, the relationships between physical activity and sporting performance, and how physical performance can be optimized without injuring elements of the musculoskeletal system:
1. A series of lectures, demonstrations and laboratories on the structure and function of the musculoskeletal system as it relates to sporting activities. Emphasis is placed on bony, ligamentous and muscular structures that are most likely to be used or damaged in sporting activities.
2. A series of lectures, demonstrations and laboratories which examine how physiological activity and sporting performance can be analyzed using basic laws of physics and mechanics. Main topics include muscle actions, joint movements, rectilinear and rotational motion simple mechanics, fluid mechanics and the biomechanical analysis of specific sporting skills.
Assumed Knowledge: HUBS1408 Sports Science 1A or equivalent.

HUBS2202 Human Biochemistry 1
Units: 10
Locations: Callaghan
Provides an introduction to basic concepts in biochemistry with a focus on understanding the role of macromolecules and micromolecules in human disease and the diagnosis of human disease. Emphasis is given to the integration of these biochemical concepts for understanding the nutritional management of disease states. The course is complementary to HUBS2204 (Human Biochemistry 2), which assumes acquisition of the knowledge of HUBS2202. It is also run in parallel with NUDI2220 Nutrition 2 which documents the macro and micronutrients in relation to dietary needs.
Assumed Knowledge: HUBS1401, HUBS1402, HUBS2202

HUBS2403 Cellular and Molecular Science - Part 1
Units: 20
Locations: Callaghan
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 compliments HUBS2404.
Assumed Knowledge: Contents of HUBS1401-Human Bioscience 1A, HUBS1402-Human Bioscience 1B, and HUBS1201 Biomolecular Analysis or equivalent.

HUBS2404 Cellular and Molecular Science - Part 2
Units: 20
Locations: Callaghan
This course complements HUBS2403 (HUBS222). Students will learn about the functional diversity of cells, illustrated by individual cell types and exemplified by physiological/pathological modifications.
Assumed Knowledge: HUBS2403 (HUBS222)

HUBS2405 Human Structure and Function Part 1
Units: 20
Locations: Callaghan
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 vascular 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 molecules) and how such functions are regulated. Attention focuses 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 course 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.
Assumed Knowledge: HUBS1401 (HUBS101) and HUBS1402 (HUBS102)

HUBS2406 Human Structure and Function Part 2
Units: 20
Locations: Callaghan
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 molecules, interactions), and how such functions are regulated. Attention focuses 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.
Assumed Knowledge: That embodied in HUBS2405 (HUBS224)
HUBS2514 Primary Kinetics 1
Units: 10
Locations: Callaghan
This elective course examines the programming of Team Sports in the Primary K-6 curriculum. Effective coaching strategies will be examined to enhance student performance.
Assumed Knowledge: PUBH2000 (BEHM200)

HUBS2515 Primary Kinetics 2
Units: 10
Locations: Callaghan
This elective course 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: PUBH2000 (BEHM200)

HUBS2516 Movement and Dance in the Primary School
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Professional Preparation 1A and 1B or equivalent

HUBS2517 Physiology for Rehabilitation Therapies
Units: 10
Locations: Callaghan
The course is aimed at providing coverage of human physiology topics relevant to the rehabilitation therapies areas of neurology; cardiovascular; respiratory; autonomic functions; skeletal muscle; homeostasis and aspects of immunology and pharmacology.
Assumed Knowledge: HUBS1401 and HUBS1402 OR HUBS1405A and HUBS1405B

HUBS2518 Human Physiology for N&D
Units: 10
Locations: Callaghan
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: HUBS1401 and HUBS1402

HUBS2520 Sports Science 3: Exercise Physiology
Units: 10
Locations: Callaghan
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 Sports Science 1A or equivalent. Students are expected to have a basic knowledge and understanding of human anatomy and physiology.

HUBS3010 Human Bioscience 3 (Nursing)
Units: 10
Locations: Callaghan
Gosford Hospital
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.

HUBS3105 Techniques in Neurobiology (Neuroscience)
Units: 10
Locations: Callaghan
Provides students with an understanding of the human brain and some of the approaches that have been used to study nervous system physiology and biophysics. The course begins with detailed study of the mammalian brain, based on the complete dissection of a human brain. Emphasis will be placed on input-output relations of major brain regions, including the spinal cord. The second half of the course builds on this structural knowledge and exposes students to some modern neurophysiological techniques used to study nervous system function, including the instrumentation necessary for recording; acquisition and analysis of neurophysiological data. Some of the classic experiments that shape our current understanding of neurophysiology will be used in laboratory sessions. The course will be delivered as lectures and laboratory sessions.
Assumed Knowledge: Completion of Year two of the B. Biomedical Science Program or equivalent

HUBS3204 Prof Skills Biomed Sci Biotech
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 course reinforces basic linkage analysis described in 2nd year and allows that student to perform both 2-point linkage analysis and multipoint linkage analysis. This methodology is extremely useful in identifying gene loci associated with disease and in providing risk assessment. This course brings together laboratory based genetic analysis with complex computational analysis. This course also has a one week full time computer practical during the semester break.
Assumed Knowledge: Students must have successfully completed the 2nd and 3rd year of the Biomedical Science program inclusive of the 3rd year genetics component of the B.Biomedical Science program.

HUBS3403 Neuroscience
Units: 10
Locations: Callaghan
The purpose of this course is to build on the student’s previous learning in the biomedical science sub-discipline of Neuroscience. The objective of this course is to provide the student with knowledge, understanding and laboratory experiences concerning anatomical, biochemical and physiological features of 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 (Newcastle) Years 1 and 2

HUBS3404 Advanced Cell and Molecular Science
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Completion of year 2 of the Bachelor of Biomedical Science Degree course or equivalent

HUBS3405 Mammalian Growth and Development
Units: 10
Locations: Callaghan
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. Current research findings and techniques will be a major focus of this course.
Assumed Knowledge: HUBS2405 (HUBS224) and HUBS2406 (HUBS225).
HUBS3406 Directed Study
Units: 10
Locations: Callaghan
This course 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.
Assumed Knowledge: Year 2 of Bachelor of Biomedical Science Degree course, or equivalent.

HUBS3407 Advanced Skills in Biomedical Science
Units: 10
Locations: Callaghan
This is a skills based course that focuses on exposure to and the acquisition of advanced skills used in biomedical science. Such skills include animal handling, the conduct of physiological and pharmacological experimental work involving animals, techniques in receptor electropharmacology, the use of antibodies as analytical tools, advanced techniques used in the analysis of bacterial and viral genomes and infectivity and microscopy techniques. The course is organised into a series of modules which have both a practical and theoretical focus. The relevance and application of the above skills to the investigation of scientific questions will be emphasised.
Assumed Knowledge: Knowledge equivalent to that gained in Years 1, 2 and HUBS3403, HUBS3404, HUBS3405 and HUBS3204 in Year 3, of B Biomedical Science program.

HUBS3408 Frontiers in Biomedical Science
Units: 10
Locations: Callaghan
This is a lecture and tutorial based course that focuses on recent discoveries and questions in the field of biomedical science. The course will be divided into major topic areas such as cancer biology, neuroscience, analysis of drug action, human genetics, immunology, microbiology and virology, and will be presented as a series of 3-6 week modules. Emphasis will be placed on the presentation and discussion of cutting edge research in these topics and its impact on understanding human disease and the development of novel treatment strategies.
Assumed Knowledge: Knowledge equivalent to that gained in Years 1, 2 and HUBS3403, HUBS3404, HUBS3405 and HUBS3204 in Year 3, of B Biomedical Science program.

HUBS3409 Projects in Biomedical Science
Units: 20
Locations: Callaghan
Provides an opportunity for students to study a current field of research in biomedical science in greater depth and to gain the intellectual and professional skills associated with managing, implementing and reporting on a biomedical research project. Students working in pairs will be assigned to research projects supervised by faculty staff. The projects will be conducted in the laboratories/offices of the supervisory staff and each pair of students will organise their timetable with their supervisor. Individual students will be required to prepare a literature review on their area of research and prepare a manuscript on the work completed. In addition, pairs of students will present their work in an end of semester program seminar. Assessment of performance will be based on student ability to critically analyse the literature in their field, to manage and conduct research in an effective manner and on their written and oral communication skills.
Assumed Knowledge: Knowledge equivalent to that gained in Years 1, 2 and HUBS3403, HUBS3404, HUBS3405 and HUBS3204 in Year 3, of B Biomedical Science program.

HUBS3510 Sports Science 4
Units: 10
Locations: Callaghan
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

HUBS4401 Biomed Sci Honours 411
Units: 20
Locations: Callaghan
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

HUBS4402 Biomed Sci Honours 412
Units: 20
Locations: Callaghan
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

HUBS4403 Biomed Sci Honours 413
Units: 20
Locations: Callaghan
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.

HUBS4404 Biomed Sci Honours 414
Units: 20
Locations: Callaghan
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.

HUBS6201 Specialist Applied Pharmacology
Units: 10
Locations: Callaghan
To provide students with knowledge of the basic mechanisms underlying drug action. The mechanisms of action of prescribed drugs that act on the various body systems, as well as the effects of social and abused drugs. This course is designed to allow registered nurses to continue the accumulation of additional knowledge necessary to use the rights/privileges to function as nurse practitioners. This includes ordering medications from an approved formulary and limited referrals in accordance with approved clinical guidelines. Other courses in the program will allow students to use this background knowledge in their specialist practice.
Assumed Knowledge: Completed Bachelor of Nursing degree or equivalent.

HUBS6301 Human genetics 1
Units: 10
Locations: Callaghan
Offers an interactive seminar course which includes a review of the basic structure and functions of the cell, the chromosome and the gene, mitosis, meiosis and Mendelian and non-Mendelian patterns of inheritance. This is followed by an overview of human genetics, the genetics of the immune system and cancer, ecogenetics and evolutionary genetics.
Assumed Knowledge: HUBS6301 (GENE691)

HUBS6302 Human genetics II
Units: 10
Locations: Callaghan
Offers an interactive seminar course that pays attention to biochemical and molecular genetics, the genetics of the immune system and cancer, eugenetics and evolutionary genetics.
Assumed Knowledge: HUBS6301 (GENE691)

HUBS6303 Clinical genetics 1
Units: 10
Locations: Callaghan
Offers twice weekly seminar/workshop sessions with active participation by students in which they carry out a detailed study of the construction and interpretation of family pedigrees and the collection and assessment of relevant medical and social information. Concepts of disease, genotype and phenotype, genetic disorder, burden and risk, and methods of diagnosis are considered.
Assumed Knowledge: None

HUBS6304 Clinical Genetics 2
Units: 10
Locations: Callaghan
Offers twice weekly seminar/workshop sessions with active participation by students in which they carry out a detailed study of the major categories of genetic disease as well as aspects of genetic counselling. Ethical and psychosocial issues in genetics will be discussed.
Assumed Knowledge: HUBS6301 (GENE691)
HUBS6304B Clinical Genetics (Part B)

Locations: Callaghan

This course is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B.

Assumed Knowledge: HUBS6301, HUBS6303

HUBS6310 Introduction to Genetic Counselling

Locations: Callaghan

This course introduces students to the multidisciplinary applications of genetic counselling, with emphasis on the physical psychological and social effects of genetic disease and screening on individuals, families and communities. The course will cover interview skills, pedigree drawing and interpretation, preconceptional and prenatal counselling and an introduction to a framework for ethical analysis.

Assumed Knowledge: HUBS6301

HUBS6311 Introduction to Clinical Genetics

Locations: Callaghan

This course provides students with a basic understanding of the clinical aspects of common genetic conditions in a format that allows students to select from a number of elective options to tailor their learning to their area of interest. Emphasis is on the relevance of all topics to modern preventative and interventional health care, and the psychosocial impact of conditions on the individual, family and community. Students will understand the frequency, genetic mechanisms and testing options for common conditions, and have the option of practising practical skills in two residencies.

Assumed Knowledge: HUBS6310 Introduction to Genetic Counselling

HUBS6312 Master of Genetic Counselling Thesis 1

Locations: Callaghan

To complete a one-year research project in a laboratory or epidemiological or clinical research field relevant to genetic counselling or clinical genetics. This will involve ongoing discussions and supervision, literature reviews, formulation of methodology, writing ethics committees, applications, obtaining statistical or other specialist advice on interpretation of results, recording results and writing a mini thesis.

Assumed Knowledge: Completion of the Graduate Diploma of Genetic Counselling, or equivalent.

HUBS6314 Master of Genetic Counselling Thesis 2

Locations: Callaghan

Aims to provide candidates with the appropriate knowledge, skills and attitudes for a career in Genetic Counselling. Candidates learn research methods by both instruction and direct participation in genetic counselling and the completion of a research project, written up as a mini-thesis.

Assumed Knowledge: Completion of the Graduate Diploma of Genetic Counselling, or equivalent.

HUBS6315 Practicum and Project Part 1

Locations: Callaghan

Consists of a practical and project component, both of which must be completed successfully. The practicum consists of two placements of three weeks each in different localities of the students choice. These can include outreach clinics, hospital and genetic clinics in other cities, laboratories, fertility centres, genetic education centres and genetic support group organizations, enabling the students to see how clinical genetics and genetic counselling are carried on in the workplace. There will be a maximum of two students to each placement location at the same time.

The project/essay component enables students to identify an area of investigation within the genetic counselling field, conduct an effective literature search and present a detailed proposal suitable for submission to an ethics board.

Assumed Knowledge: HUBS6301, HUBS6303, HUBS6315

HUBS6317 Genetic Counselling Part 1

Locations: Callaghan

This course is directed to provide students with a range of counselling skills, that will equip them to perform the specific duties involved in genetic counselling. This will focus on developing communications skills, and self-awareness in the provision of genetic counselling.

Assumed Knowledge: Undergraduate degree in a relevant field or considerable previous work experience in a related area.

HUBS6318 Genetic Counselling Part 2

Locations: Callaghan

This course is directed to provide students with a range of counselling skills, that will equip them to perform the specific duties involved in genetic counselling. This will focus on developing communications skills, and self-awareness in the provision of genetic counselling.

Assumed Knowledge: Undergraduate degree, HUBS6317

HUBS6501 Exercise Physiology A

Locations: Callaghan

Introduces students to exercise physiology with an emphasis on energy systems, the use of energy by skeletal muscle during exercise, and an introduction to exercise training and adaptations to exercise training.

Assumed Knowledge: It is advantageous to have some prior knowledge in human physiology.

HUBS6502 Exercise Physiology B

Locations: Callaghan

Extends the student's knowledge of exercise physiology with an emphasis on exercise training, body composition and ergogenic aids.

Assumed Knowledge: It is advantageous to have some prior knowledge in human physiology.

HUMA1000 Australia and the Asia-Pacific: An Introduction

Locations: Central Coast

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

Locations: Central Coast

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

Locations: Central Coast

Explores the relationship of Australia and Australians to the outside world during the course of the late nineteenth and twentieth centuries. 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.

Assumed Knowledge: As this is a 100 level course no particular prior knowledge is assumed.

HUMA1055 Ancient Cultures: An Introduction to Greece & Rome

Locations: Central Coast

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

Locations: Central Coast

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 sociolinguistic concepts, levels of linguistic analysis, the structure of the English language, language acquisition, and language variation.

Assumed Knowledge: Nil
HUMA1160 Foundations in Societies & Cultures
Units: 10
Locations: Central Coast
Develops an understanding of the forces of contemporary social change, drawing upon insights from sociology, anthropology, and linguistics. The course offers an interdisciplinary approach to understanding processes of change in human societies and cultures, and the impacts of new geopolitical and economic realities upon contemporary institutions.
Assumed Knowledge: Nil.

HUMA1161 Introduction to Social Anthropology
Units: 10
Locations: Central Coast
Introduces students to the broad discipline of anthropology as social and cultural analysis. It addresses:
The history of anthropology and anthropological thought
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.

HUMA1350 Issues in Australian Politics and Foreign Policy
Units: 10
Locations: Central Coast
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: None.

HUMA1351 An Introduction to Political Theory
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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.

HUMA1601 Ancient Cultures: The Meaning of Mythology
Units: 10
Locations: Central Coast
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.

HUMA1650 Narrative and Representation
Units: 10
Locations: Central Coast
Provides an introduction to narrative 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
Units: 10
Locations: Central Coast
Provides an introduction to broad strands in modern fiction (realism, modernism, and postmodernism), and considers the interrelatedness of English and Australian literary traditions. The subject proceeds by pairing representative works of English and Australian fiction.
Assumed Knowledge: Nil.

HUMA1652 Medieval and Renaissance Literature
Units: 10
Locations: Central Coast
Provides an introduction to English poetry and drama written before 1700. The course will begin with a brief account of Old English writing; later medieval works will include Sir Gawain and the Green Knight and poems by Chaucer. In the second part of the semester we shall examine poems and plays from the sixteenth and seventeenth centuries by such writers as Wyatt, Sidney, Shakespeare, and Donne.
Assumed Knowledge: Nil.

HUMA1653 Introduction to Creative Writing
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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, familiarise 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.

HUMA2162 Kinship and Social Organisation
Units: 10
Locations: Callaghan
Examines past and contemporary anthropological theories of kinship and its relation to social organization in a variety of human societies. There will also be a critical review of analytic and interpretive arguments about kinship. The understanding of kinship, once seen as a primary focus of anthropological fieldwork and an empirical, comparative exercise, has now become an issue of content, in terms of the concept of kinship itself and of ways of understanding it.
Assumed Knowledge: SOCA1020 or HSS160.

HUMA2163 Aboriginal Peoples & Racialised Policy in Australia
Units: 10
Locations: Central Coast
Examines past and contemporary anthropological theories of kinship and its relation to social organization in a variety of human societies. There will also be a critical review of analytic and interpretive arguments about kinship. The understanding of kinship, once seen as a primary focus of anthropological fieldwork and an empirical, comparative exercise, has now become an issue of content, in terms of the concept of kinship itself and of ways of understanding it.
Assumed Knowledge: SOCA1020 or HUMA1160 or equivalent.

HUMA2400 Progressive Welfare Practice 1
Units: 10
Locations: Central Coast
Introduces students to a critical analysis and evaluation of policies and politics pertaining to Indigenous Australians. Government policies such as segregation, assimilation, self-management and self-determination and their effects on Aboriginal communities are evaluated. Introduces students to key theories, concepts and research on the role of the state in contemporary society. One of the central aims is to give priority to the Aboriginal viewpoint on social justice and self-determination issues.
Assumed Knowledge: SOCA1010 or HUMA1160 or equivalent.

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HUMA2401 Social Policy in Australia
Units: 10
Locations: Central Coast
Provides an opportunity for students to examine key themes in social policy using Australian material. The starting point for the course will be the debate over the nature and extent of class, wealth inequality and poverty in Australia. The course will then trace how, from the 1980s, 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 course 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.
Assumed Knowledge: No specific course prerequisites. As a second year subject, students will have to have passed one or more 100 Level course.

HUMA2402 Society and Capitalist Markets
Units: 10
Locations: Central Coast
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. Case studies of socially controversial industries and products will be features.
Assumed Knowledge: Nil

HUMA3002 Imagined Australias: The Future
Units: 10
Locations: Central Coast
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 HUSA101 (or equivalent).

HUMA3050 Australian Popular Culture
Units: 20
Locations: Central Coast
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 will be examined. Topics include: gambling, drinking, sport, music, crime, food, film and television.
Assumed Knowledge: 20 cp of History at 100-level.

HUMA3051 History and Heritage
Units: 10
Locations: Callaghan, Central Coast
Offers a chance to combine classroom-based theoretical approaches with hands-on experience. The international history of heritage will be traced from the late 19th century to the present day. A close study of heritage in Australia including its legislative bases will be made. There will be consideration of the meaning of heritage as a form of history. Parallel to this theoretical stream will be a series of workshops and excursions to heritage sites providing students with a basic training in research, reporting and presentation skills and techniques of the heritage consultant.
Assumed Knowledge: 20 credit points of History at 100-level.

HUMA3052 Hist of Aus-SthPac: Pre-contact to Post-colonialism
Units: 10
Locations: Central Coast
Subject focuses on the history of Australia and the southwest Pacific - notably New Zealand, Fiji, New Caledonia and Samoa - from pre-European contact to the post-colonial nation. The principal themes to be explored are: race, culture and identity; imperialism, colonisation and decolonisation; land, labour and migrant workforce. The approach taken is both chronologically and thematic, and introduces students to comparative tools of analysis in studying history.
Assumed Knowledge: It is expected that students will have completed 20 credit points at first year level in History subjects.

HUMA3053 History and Film
Units: 20
Locations: Central Coast
While historians deal principally with written texts, film (or the visual text) is also an important medium and one that historians cannot afford to ignore. One of the key themes handled in the course is the way in which film makers construct the past using the film camera and our critical assessment of their representations based on criteria appropriate to the visual medium. Relevant historical written texts and the novels on which films are based (where appropriate) will be read in conjunction with the visual text.
Assumed Knowledge: Students must have completed at least one first year history course OR a first year ancient history/cultures course OR the first year core course on gender studies OR the first year core in Asia and Asia-Pacific Studies.

HUMA3054 Australia and Canada: Comparative Histories
Units: 10
Locations: Central Coast
Provides a study of eastern Australia and western Canada, focusing on interrelated themes and issues as well as links in the history and culture of these two societies. Context for the course will also be provided by Australia and Canada's common association with the Asia-Pacific region. Perspectives will focus on the nineteenth and twentieth centuries and will therefore largely be historical, but may be supplemented by those taken from geography, anthropology, literature and Australian Studies.
Assumed Knowledge: 20 units in history (e.g. HUMA1000, HUMA1051, HUMA1052) at 1000 level.

HUMA3056 Histories of Young Australians
Units: 10
Locations: Central Coast
This course will examine changing conceptions about the nature of childhood and how they have influenced the treatment and experiences of young Australians. The course will cover the experiences of children and youth during various periods of Australian history—from the lives of convict children, to the ‘boomers’, to the 'stolen generations' of Aboriginal children. Topics covered include family life, children's health and welfare, education, and child and youth cultures. Students will be given the opportunity to work with a number of primary texts and encouraged to reflect on the nature of history and historical representation.
Assumed Knowledge: 20 units in History at 1000 level (e.g. HUMA1051, HUMA1052) or equivalent.

HUMA3100 Language in Australia
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Callaghan, Central Coast
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 used 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
Units: 10
Locations: Callaghan, Central Coast
Provides advanced study in two core areas of linguistics - phonetics and phonology. The phonetics component comprises the analysis and description of speech sounds, with particular emphasis on articulatory phonetics. The phonology component comprises the analysis and description of sounds systems and word structures. 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.

HUMA3103 Intercultural Communication
Units: 10
Locations: Central Coast
Develops understandings and skills for communication and human interaction in a global environment of increasing cultural diversity. The course draws upon findings from linguistics and interdisciplinary research to build insights into communicative practices in a wide range of cultural and educational contexts.
Assumed Knowledge: Nil

HUMA3120 Contexts of Critical Literacies
Units: 10
Locations: Central Coast
Introduces the concept of critical literacy and places it in the context of institutional settings. It addresses the notion of critical literacy and provides historical, social and political contexts in which to critique educational discourses as they appear in policy and curriculum documents. The construction of contemporary schooling and its implications for teachers, learners and society are examined.
Assumed Knowledge: Nil.
HUMA3121 Families, Professionals & Children w Special Needs
Units: 10
Locations: Central Coast
Develops knowledge of disability in the developmental phase, encompassing the period from infancy through adolescence, and with reference to an ecological framework which includes family, cultural, societal and educational factors.
Assumed Knowledge: Nil

HUMA3160 Reading Ethnography
Units: 20
Locations: Central Coast
Surveys, critically, anthropological writing from the beginnings of modern ethnology to the present day. An examination of changes in the textual representations of other societies/cultures by Western ethnographers. Consideration of problems of interpretative 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
Units: 20
Locations: Callaghan
Central Coast
Introduces anthropological perspectives on custom, dispute processes, and concepts of justice in diverse societies/cultures. The impact of colonial law 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
Units: 20
Locations: Callaghan
Central Coast
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: 4 hours per week
Assumed Knowledge: Adequate grasp of substance of the 100-level introductory anthropology subject, two anthropological subjects at 200 level.

HUMA3163 Global Cities and Cultures
Units: 10
Locations: Central Coast
The city has been a major focus of research. It has been the object of planners and reformers in their zeal to make the city a governable space. The city has also been understood and explored as the site of a distinctive social experience. The city is the home of individuals and social groups. We will consider this experience in relation to the industrial city. We will proceed to look at the way global networks and transnational economic and political power have reshaped the contemporary city. We will analyse the way cities are shaped by and shape this new order.
Assumed Knowledge: SOCA11010 or HUMA1160

HUMA3165 Australian Families: A Sociological Analysis
Units: 10
Locations: Central Coast
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 the state.
Assumed Knowledge: 40 units 1000 level courses

HUMA3300 Philosophy of Social Sciences
Units: 10
Locations: Central Coast
Provides the theoretical background and intellectual tools for critical examination of the methodology and ontological commitments of the social sciences. It will include 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
Units: 10
Locations: Central Coast
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 & Well: Re-Appraising Responsibility
Units: 10
Locations: Central Coast
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, HSS242/342, BOS113.

HUMA3352 The Politics of Postmodernity
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
Examines the progress of 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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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, HSS345 Political Utopias will rest on assumed knowledge of HSS143, HSS340, or HSS341 or HSS342.

HUMA3356 Gov-Business Relations in Asia-Pacific Region
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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 affected 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

HUMA3358 Globalisation & Comparative Public Policy
Units: 10
Locations: Central Coast
Introduces students to some of the major long-standing differences in the social and economic role of the state in different clusters of advanced capitalist countries. The main comparison will be between liberal (eg US), corporatist (eg Germany) and social democratic (eg Sweden) capitalist systems. Most attention will be paid to social policy but some reference will be made to aspects of economic policy. The course will also assess the extent to which these long-standing differences are being eroded by developments associated with the term ‘globalisation’. Does globalisation entail policy convergence and a transfer of power from the nation-state to transnational corporations and supra-national states institutions? How is globalisation affecting the poorest countries?
Assumed Knowledge: Nil.

HUMA3400 Welfare Inquiry: Research Theory and Methods
Units: 10
Locations: Central Coast
Provides an introduction to theoretical and methodological issues relevant to research enquiry 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 illustrates theoretical and methodological issues by means of a step-by-step practical case study in project design. The third strand of the subject is an introduction to some techniques of quantitative research. Students are led through 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
Units: 10
Locations: Central Coast
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.

HUMA3402 Child and Family Welfare
Units: 10
Locations: Central Coast
Places child welfare issues in a social and political context and highlights the impact of class, gender and race to the process of policy development and implementation. The course aims to make critical perspectives available to students of child welfare policy and practice, to assist them to understand the context in which policy and practice occur.
Assumed Knowledge: WEST101

HUMA3403 Australian Public Policy and Social Outcomes
Units: 10
Locations: Central Coast
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 domestic companies; 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 domestic companies; and associative gender and ethnicity dimensions of these outcomes.
Assumed Knowledge: Nil

HUMA3404 Juvenile Justice
Units: 10
Locations: Central Coast
Young offenders and juvenile crime have a high public profile in Australia today. Indeed, in most advanced industrialised countries, this heightened awareness is fuelled by extensive media hype focusing negatively on young people generally and on ‘youthful deviance’ specifically. This course is an examination of the people and institutions involved with juvenile justice in Australia. It will examine the process and theories of juvenile justice, as well as factors affecting juvenile justice. In addition, this subject will examine the identified groups: Aboriginal youth, young women, Ethnic youth and young people with difficult behaviours, as each of these groups has particular needs.
Assumed Knowledge: Adequate grasp of Welfare Studies at 100 level (HUMA1400), and preferably though not necessarily Young People and the State.

HUMA3404A Welfare Practicum
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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.

HUMA3407 Human Rights
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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: HUMA1400

HUMA3409  Working in Human Service Organisations
Units: 10
Locations: Central Coast
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.

HUMA3410  Welfare Practicum
Units: 10
Locations: Central Coast
Students will complete a total of 120 hours field placement in a welfare agency. This 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 issues contexts.

HUMA3600  Women in Ancient Literature
Units: 10
Locations: Central Coast
Examines the representation of women in Greek and Roman literature. Topics will include the portrayal of mythological 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
Units: 10
Locations: Central Coast
Examines an innovative approach to the study of Greek theatre through the combination 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
Units: 10
Locations: Central Coast
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 significance 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
Units: 10
Locations: Central Coast
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
Units: 10
Locations: Central Coast
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 in gender and antiquity.
Assumed Knowledge: 20 units of 1000-level English.

HUMA3650  Special Topic: Romance and Society
Units: 10
Locations: Central Coast
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
Units: 20
Locations: Central Coast
Examines 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.

HUMA3661  Australian Children's Literature
Units: 10
Locations: Central Coast
Examines a range of Australian children's literature in terms of notions of childhood and the social and cultural functions of story. It questions the nature, scope and function of Australian children's literature and examines constructions of gender and cultural identity in particular works. The subject is positioned in a cultural studies approach that examines history, culture, ideology and politics in Australian children's literature. It also examines the sites of production and consumption of children's fiction. This subject is particularly concerned with exploring how children's literature has responded to broader issues in Australian identity past and future.
Contact hours: 2 hours per week.
Assumed Knowledge: While there are no prerequisites, it is assumed that students will have completed some courses in English at 100 and/or 200 level.

HUMA3663  Myth and Fairytale
Units: 10
Locations: Central Coast
Examines the origins and development of the related genres of myth and fairytale in the Western literary tradition. Attention is given to the relevant texts of the Greeks and Romans followed by the emergence of the genres in early English epic. This block of study is then augmented by the study of the later works of the Renaissance through to the nineteenth and early twentieth centuries.
Assumed Knowledge: HUMA1650 or 10 units at 1000 level

HUMA3665  Romantic Literature
Units: 10
Locations: Central Coast
Examines the poetry and prose of the Romantic period, 1789-1830. The focus is on the early poets who established the concepts associated with this age, in particular Wordsworth and Coleridge, authors of the influential Lyrical Ballads. Prose studied includes fiction by the important figures Austen and Scott, and examples of the Gothic novel.
Assumed Knowledge: HUMA1650 or at least 10 units of study in English literature at 1000 level

HUMA4001  Societies & Cultures Honours A
Units: 20
Locations: Central Coast
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
Units: 20
Locations: Central Coast
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  
**Units:** 20  
**Locations:** Central Coast  
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  
**Units:** 20  
**Locations:** Central Coast  
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 in the field and 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.

**HUMA4000** Welfare Studies Honours A  
**Units:** 20  
**Locations:** Central Coast  
HSS480, HSS481, and 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).

**HUMA4001** Welfare Studies Honours B  
**Units:** 20  
**Locations:** Central Coast  
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).

**HUMA4002** Welfare Studies Honours C  
**Units:** 20  
**Locations:** Central Coast  
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).

**HUMA4003** Welfare Studies Honours D  
**Units:** 20  
**Locations:** Central Coast  
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).

**HUMA4651** Literature and Performance Honours A  
**Units:** 20  
**Locations:** Central Coast  
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.

**HUMA4652** Literature & Perform Hon B  
**Units:** 20  
**Locations:** Central Coast  
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
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None

IDEA1480 Introduction to Workshop
Units: 10
Locations: Callaghan
Formal workshop skills are presented and applied in the context of Design and Technology. Workshop safety and basic workshop practices and process are introduced. The relationship between prototypes and industrial production is defined. Risk assessment and management, with a specific focus on school workshops, are a focus of the course.
Assumed Knowledge: None

IDEA1500 Industrial Design 1
Units: 10
Locations: Callaghan
Introduces the profession of industrial design and design process. Synthesises the skills, techniques, methodology and philosophies developed in other design courses. Assumed Knowledge: Concurrent assumed knowledge IDEA1600, IDEA1800, DESN160, DESN180

IDEA1510 Industrial Design 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Knowledge, skills and abilities covered in: IDEA1600, IDEA1800, IDEA1450 DESN147, DESN160, DESN180, DESN145, IDEA1900, IDEA1700, DESN190 or DESN170

IDEA1600 Production Drawing 1
Units: 10
Locations: Callaghan
Deals with the formal skills of production drawing and application of Australian Standards (AS) requirements in the context of industrial design.
Assumed Knowledge: None

IDEA1700 Mechanisms
Units: 10
Locations: Callaghan
Presents the mechanisms and mechanical principles as employed in Industrial Design projects. Explores the characteristics of mechanisms, trigonometry, hydraulics, mechanical advantage, gears, friction, fastenings technologies and selection of standard componentry.
Assumed Knowledge: IDEA1900 or DESN190

IDEA1800 Basic Presentation Techniques
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None

IDEA1900 Basic Modelling
Units: 10
Locations: Callaghan
Examines alternative model types and their uses and appropriateness within the design process. Introduces basic safety workshop practices and modelling techniques.
Assumed Knowledge: IDEA1600 or DESN160

IDEA2450 Workshop Skills
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None.

IDEA2460 Environmental Design
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None

IDEA2500 Industrial Design 3
Units: 10
Locations: Callaghan
Introduces health and safety considerations relevant to the topics presented. Projects are more complex than the introductory projects in IDEA1500 and IDEA1510. 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.
Assumed Knowledge: IDEA1510 or DESN151

IDEA2510 Industrial Design 4
Units: 10
Locations: Callaghan
Introduces health and safety considerations. Projects are more complex than those presented in IDEA2500. 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.
Assumed Knowledge: IDEA2500, DESN250

IDEA2600 Production Drawing 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: IDEA1600, IDEA2650, IDEA2660,DESN160, DESN265 or DESN266

IDEA2650 Design for Mass Production 1
Units: 10
Locations: Callaghan
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 blow moulding; rotational moulding; casting; pressing/stamping; forging; laser cutting; water knife; plasma cutting; powder metallurgy.
Available in alternate years (odd numbered years).
Assumed Knowledge: IDEA1480, IDEA1510, DESN148 or DESN151

IDEA2890 Styling
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: IDEA1800, DESN180 or DESN100 or DESN101

IDEA3000 Directed Study
Units: 10
Locations: Callaghan
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: 2D CAD skills and the design skills and processes covered in IDEA2500

IDEA3450 Design for the Future
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: None.
IDEA3500 Industrial Design 5
Units: 10
Locations: Callaghan
Expands on aspects of the profession covered in the courses IDEA1500, IDEA1510, IDEA2500 and IDEA2510 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.
Assumed Knowledge: IDEA2510, IDEA2600, IDEA1900, DESN2521, DESN2620, DESN1900

IDEA3510 Industrial Design 6
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: IDEA3500, DESN2520

IDEA3830 Furniture Design
Units: 10
Locations: Callaghan
Explores the specialist theories and principles of Furniture Design, including selection and documentation of manufacturing processes, presentation techniques, trimming/upholstering techniques, fastening technologies and selection of standard componentry, project costing, planning and management, prototyping and testing, environmental considerations.
Assumed Knowledge: IDEA2500, DESN2520

IDEA3850 Human Factors
Units: 10
Locations: Callaghan
Explores principles of human factors and ergonomics. Students evaluate and apply anthropometric and ergonomic data within the context of Industrial Design. Topics covered include anthropology, light/vision, sound/hearing, structured environments, control systems and interfaces, design for the disabled, comfort, safety, fatigue and testing.
Assumed Knowledge: None

IDEA4500 Industrial Design 7
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: IDEA3510, DESN351

IDEA4510 Industrial Design 8
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: IDEA4500, DESN450

IDEA4520 Industrial Design 9
Units: 20
Locations: Callaghan
Allows students to undertake a significant project of their choice. The project exhibits all the attributes of a professional Industrial Design project.
Assumed Knowledge: IDEA4500, DESN450

IDEA6000 Directed Study
Units: 20
Locations: Callaghan
Enables students to undertake an approved project in an area of Industrial Design not addressed by other courses. The project will be conducted at the level of practicing professionals. Weekly feedback will be given at timetabled one hour consultations.
Assumed Knowledge: Nil

INFO1010 Introduction to Information Systems and Technology
Units: 10
Locations: Callaghan
Central Coast
Provides an introduction to the basic knowledge and techniques needed to use computers effectively in learning environments and subsequent study and employment. Explains information systems and computer hardware and software concepts and introduces various communication techniques. Includes a hands-on approach to helping students become proficient in the use of computers as personal productivity tools. Students will develop competency with common software applications such as word processing, spreadsheets, databases and presentation software. Features of the course include networks, the Internet and the Web.
Assumed Knowledge: Nil

INFO1020 Information Storage and Management
Units: 10
Locations: Callaghan
This course 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 normalisation of this 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
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Students are assumed to have completed INFO1010 and have a basic understanding of organisational behaviour.

INFO2020 Systems Analysis and Design
Units: 10
Locations: Callaghan
This course focuses on information system architecture and development as a means of defining and solving the information requirements of a modern event-driven organisation. The approach taught blends process modelling and entity relationship modelling to specify system scope and structure, with object-oriented (OO) methods covered by the Unified Modelling Language, UML. Both theory and practice are emphasised with realistic examples to reinforce the learning experience and management lessons within the project setting. Requirements analysis and architectural design leads to a detailed object-oriented specification within the life cycle of a system's development. The outcome is detailed physical design which, dealt with in other courses, is followed by construction of an event-driven information system.
Assumed Knowledge: Students are assumed to have completed INFO1010 in order to have a basic understanding of information systems.

INFO2030 Information Systems Implementation
Units: 10
Locations: Callaghan
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. Case studies are continued throughout the course to illustrate concepts and, depending on facilities available, students are introduced to a variety of software tools.
Assumed Knowledge: Students are assumed to have knowledge equivalent to that attained on completion of INFO1020 and INFO2020.

INFO2040 Distributed Computing Technologies
Units: 10
Locations: Callaghan
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 Small to Medium Enterprise information systems, including database design and implementation, event driven programming, development of effective user interfaces, and creation and presentation of reports. It also provides students with the practical experiences involving a Visual Basic interface into relational databases in a distributed network.
Assumed Knowledge: Students are assumed to have a sound understanding of the following areas
- MS Windows 95/98, NT, ME, XP or 2000 operating system environment
- Computer programming using a procedural language
- Object Oriented programming (basic concepts only)
- Data modelling, including Entity-Relationship (ER) diagrams
- The Relational model, including the creation of relational tables from ER diagrams
- Normalisation of relations
- The use of a relational database management system such as Microsoft Access SQL.

INFO2090 Distributed Computing Technologies 2
Units: 10
Locations: Callaghan
Enables students to undertake approved projects in the areas of Information Systems, with emphasis on the development of large scale business systems. Students will be able to apply their knowledge and skills in the design, implementation and maintenance of distributed systems.
Assumed Knowledge: SENG1110, INFO1020 and INFO2040 or equivalents.
INFO3010 Information Management
Units: 10
Locations: Callaghan
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.
For 2003 this course may not be counted for credit with COMP250 - Database Systems
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.

INFO3030 Information Systems & The Organisation
Units: 10
Locations: Callaghan
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.
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.

INFO3050A Information Systems Project (Part A)
Units: 10
Locations: Callaghan
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 INFO1020, INFO2020 and INFO2030 satisfactorily and to have either passed or be currently doing INFO3010 or SENG33250.

INFO3050B Information Systems Project (Part B)
Units: 10
Locations: Callaghan
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B. As a "capcone" 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 INFO1020, INFO2020 and INFO2030 satisfactorily and to have either passed or be currently doing INFO3010 or SENG33250.

INFO3060 Industrial Research
Units: 10
Locations: Callaghan
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
Assumed Knowledge: Nil

INFO4070 Modern Software Development Practice
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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

INFO6001 Database Management 1
Units: 10
Locations: Callaghan
Modern enterprises rely on the efficient storage and management of data. An organisation’s data provides information that is vital for its day-to-day existence. Corporate data structures can also be formed to serve as a knowledge repository for the organisation. These provide a basis for strategic decisions and enhance competitive advantage. This course provides the foundational knowledge of database systems. The course covers both the theoretical content and the practical implementation of database requirements for organisations and is offered through lecture, tutorial and laboratory. It presents the basics of information storage and management, from the conceptual modeling of an organisation’s data requirements using the relational model, through to the implementation of these requirements with tools such as SQL and techniques such as normalisation. It also addresses the practical issues of security and concurrency in data transactions.
Assumed Knowledge: Whilst knowledge of general information systems would be an advantage, there is no assumed knowledge for this course

INFO6020 Information Storage and Management
Units: 10
Locations: WebLearn
Illustrates the vast amounts of data that are stored in computer based information systems. Explores the common tools and techniques utilised to store/retrieve data in computing systems. In particular the following topics are covered:
1. Introduction to relational database design
2. Entity relationship modelling
3. Data normalisation
4. The relational environment
5. Structured Query Language (SQL)
6. Transaction processing
Assumed Knowledge: INFO6010 - Computing and Information Systems or equivalent.
INFO6030 Systems Analysis and Design
Units: 10
Locations: Callaghan
WebLearn

The course focuses on information system architecture and development as a means of
defining and solving the information requirements of a modern event-driven
organisation. The approach taught blends process modelling and entity relationship
modelling to specify system scope and structure, with object-oriented (OO) methods
covered by the Unified Modelling Language, UML. Both theory and practice are
emphasised with realistic examples to reinforce the learning experience and manage-
ment lessons within a project setting. Requirements analysis and architectural design
leads to a detailed object-oriented specification within the life cycle of a system's
development. The outcome is detailed physical design which, dealt with in other
courses, is followed by construction of an event-driven information system.
Assumed Knowledge: INFO1010, and desktop computer competency as
prescribed by the International Computer Driving Licence. (See Australian
Recommended: INFO1020.

INFO6040 Information Systems Implementation
Units: 10
Locations: Callaghan
WebLearn

Focuses on the management of the development of computer based information systems.
Topics cover client/project management, software quality, interface design, tool
implementation and testing strategies and maintenance and evaluation. Two case
studies are continued throughout the course to illustrate concepts, and students are
introduced to a variety of software tools to support concepts.
Assumed Knowledge: INFO6030

INFO6060 Information Management
Units: 10
Locations: Callaghan

Investigates the theory and practice of data modelling 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.
Database development, use and database management functions are illustrated using
contemporary relational database management systems. Concepts of data management
in future and emerging technologies and application areas will also be studied.
Assumed Knowledge: Familiarity with fundamental relational database concepts
such as entity relationship diagrams and data normalization. Knowledge of
common SDLC methodologies and tools. Familiarity with issues of interface
design.

INFO6080 Distributed Computing Technologies
Units: 10
Location: WebLearn

Introduces the theories and practices of designing a user interface that will be used to
maintain a database in a small business. Introduces the concepts and practices of
system design by evolutionary prototyping and the prototyping system development
life cycle. Emphasises end-user input into the prototyping system development life
cycle. Introduces the three-tier database access model and Microsoft's ActivEx Data
Objects (ADO) that are one of the core technologies used to implement this model
using Microsoft products.
Credit cannot be obtained for INFO2040 and INFO6080.
Assumed Knowledge: Students are assumed to have a sound understanding of the
following areas:
1. A current Windows operating system environment
2. Computer programming using a procedural or object-oriented language
3. Data modelling, including Entity-Relationship diagrams
4. The Relational model and creation of relational tables from ER diagrams
5. Normalisation of relations
6. The use of a relational database management system such as Microsoft
   Access
7. SQL

INFO6100 Management Information Systems
Units: 10
Locations: Callaghan

Seeks to provide a foundation for understanding information systems in the context of
today’s business environment, and to impart those skills necessary for solving a wide
range of information-based problems.
OFFERED TRIMESTER 2 AND 3, 2002
Assumed Knowledge: Nil

INFO6200 Strategic Information Systems Management
Units: 10
Locations: City Precinct

Information is recognised as an increasingly important strategic organisational
resource. Which must be used effectively and efficiently. Executives must therefore be
aware of the capabilities of current and emerging information technologies. This course
covers a range of contemporary information technology issues and management
practices which are of interest to middle and upper managers.
Assumed Knowledge: INFO6100 - Management Information Systems or equivalent.

INFO6510A Information Systems Masters Project (Part A)
Units: 10
Locations: Callaghan

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 gives students in the Master of Information Technology (Information
Science) course workplace-style experience by involvement in a group information
systems project. Students will directly apply material learned in other course subjects,
to provide an information systems solution to a real world problem.
Assumed Knowledge: INFO6060 - Systems Analysis
INFO6160 - Management Information Systems
SENG6110 - Introduction to Software Engineering
INFO6040 - Information Systems Implementation

INFO6510B Information Systems Masters Project (Part B)
Units: 10
Locations: Callaghan

This course is Part B of a multi-term sequence. Part A must have been successfully
completed in the semester immediately prior, before undertaking Part B.
This course gives students in the Master of Information Technology program
workplace-style experience by involvement in a group information systems project.
Students will directly apply material learned in other course subjects, to provide an
information systems solution to a real world problem.
Assumed Knowledge: INFO6510A - Information Systems Masters Project Part A
* This must be completed in the semester immediately preceding.

INFT1001 Foundations of Information Technology 1
Units: 10
Locations: Callaghan
Central Coast

This course uses a problem-based learning environment to introduce principles and
techniques involved in utilising new information technologies. The skills needed for
self-directed, problem based learning are developed, along with an awareness of the
scope, context and constraints of typical IT projects. Students will build working
software solutions to produce Web based systems using media streaming technologies,
and so start to learn to use key tools of the IT professional such as systems concepts,
database modeling methodologies, and web and database technologies
Assumed Knowledge: None.

INFT1002 Foundations of Information Technology 2
Units: 10
Locations: Callaghan

This course teaches students programming as the fundamental tool of software
developers. Techniques for problem analysis and design of a software solution are
introduced along with the key constructs of object oriented programming languages.
An overview is given of the technical components of a computer system and of the
software life cycle.
Assumed Knowledge: 2 units of Mathematics at NSW HSC level, or equivalent.

INFT1003 Foundations of Information Technology 3
Units: 10
Locations: Callaghan

A problem and team based learning environment is used to introduce contemporary
net-centric computing. Technical topics cover the technologies and standards used in
distributed computing applications such as mobile technologies to a Web server.
Topics include the physical networking models, networked multimedia systems,
internet and client server architecture, middleware and N-tier architectures. Team
dynamics and an understanding of individual strengths and weaknesses is examined in
parallel with the technical learning. Economic and social issues arising from
differential access to information technology are also considered.
Assumed Knowledge: INFT1001 - Foundations of Information Technology 1

INFT1010 Website Construction
Units: 10
Locations: Central Coast

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.
Assumed Knowledge: None.

INFT1020 Computer Systems Management
Units: 10
Locations: Central Coast

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 application. Preparing students with skills for supporting
clients in an organisational environment. Equips students to support users in both
hardware and software.
Assumed Knowledge: None.
INFT1030 Applications Programming 1
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: None.

INFT1040 Systems Analysis and Design
Units: 10
Locations: Central Coast
Provides students with an introduction to a variety of systems analysis and design methodologies commonly used in the information technology industry. Develops skills required to analyse and design information technology solutions that help organisations achieve their objectives.
Assumed Knowledge: None.

INFT1201 Digital Technologies for Media and Entertainment
Units: 10
Locations: Calaghan
This course introduces fundamental concepts and technologies employed in exploiting the Internet for information services and media. Concurrently, students gain insight into technology and the culture of the entertainment and media industries, which will assist them in supporting content creation teams.
Assumed Knowledge: None.

INFT1202 Web Design and Management
Units: 10
Locations: Calaghan
This course looks behind a web page to look at the deeper issues involved with the design and management of large web sites. The analogy is with an architect and a librarian. The site must represent all the concepts that are needed to describe an organisation’s activities to an internal and an external audience. It should be easy to use, and all information to which a user is entitled should be easy to find. The course discusses the web site development life cycle. Tools such as site maps, wireframes, logic trees and user scenario flows are explored, along with content management systems.
Assumed Knowledge: Introductory programming; introductory knowledge of web page design and databases.

INFT2010 Applications Programming 2
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Applications Programming 1

INFT2020 Operating Systems
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1020 Computer Systems Management

INFT2030 Computer Networks
Units: 10
Locations: Central Coast
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 software systems.
Assumed Knowledge: INFT1020 Computer Systems Management

INFT2040 Database Management Systems
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Application Programming 1

INFT2800 Information Systems Development
Units: 10
Locations: Central Coast
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 collaboration with information systems professionals.
Assumed Knowledge: BUSNI1900 Electronic Business or INFO1010 Introduction to Information Systems

INFT3910 Advanced Software Development
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Applications Programming 1

INFT3920 Contemporary Issues in Information Technology
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Applications Programming 1

INFT3930 Information Technology Project
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Applications Programming 1

INFT3940 Information Technology Applications
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: INFT1030 Applications Programming 1

INFT4200 Applied Information Technology Honours A
Units: 20
Locations: Central Coast
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

INFT4220 Applied Information Technology Honours B
Units: 20
Locations: Central Coast
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
Units: 20
Locations: Central Coast
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  Units: 20  Locations: Central Coast  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

IRHR1110  Intro to Management & Organisational Behaviour  Units: 10  Locations: Callaghan  Examines the theories and ideas underlying management and organisational behaviour. Provides exposure to the more practical aspects of work in organisations. IRHR1110 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, organisation and management practices. Where appropriate, guest lecturers from industry provide examples of management in practice.  Assumed Knowledge: Nil

IRHR2010  Introduction to Industrial Relations  Units: 10  Locations: Callaghan  Provides an introduction to the study of industrial relations and delineates its essential concepts. In so doing it considers 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 employee 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

IRHR2200  Australian Industrial Relations System  Units: 10  Locations: Callaghan  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.  Assumed Knowledge: IRHR2010

IRHR2270  Human Resource Management  Units: 10  Locations: Callaghan  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.  Assumed Knowledge: It is recommended students complete IRHR1110 prior to undertaking this course

IRHR2280  Organisational Structures & Design  Units: 10  Locations: Callaghan  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  Units: 10  Locations: Callaghan  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  Units: 10  Locations: Callaghan  Integrates perspectives and issues in industrial relations and human resource management at an advanced level. Illustrates this theoretical integration through analysis of issues like training, collectivism/individualism and discrimination at work. There is an applied focus through the study of selected industries.  Assumed Knowledge: IRHR2010 - Introduction to Industrial Relations AND IRHR2270 - HRM

IRHR3020  International & Comparative Industrial Relations  Units: 10  Locations: Callaghan  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.  Assumed Knowledge: IRHR2010

IRHR3320  Contemporary Management Issues  Units: 10  Locations: Callaghan  Provides a detailed analysis of a series of contemporary management issues using a multi-disciplinary approach, combined with the development of a range of management competencies.  Assumed Knowledge: It is recommended students complete IRHR1110 prior to undertaking this course

IRHR3470  Organisational Change  Units: 10  Locations: Central Coast  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  Units: 10  Locations: Callaghan  Provides an understanding of activities and processes that are intended to have an 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 training, management education, vocational education and training and training and development strategies.  Assumed Knowledge: IRHR2270 Human Resource Management
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**Assumed Knowledge:**

- Admission to the Honours program
- IRHR2270
- IRHR1110
- IRHR1200
- IRHR2220
- IRHR2250
- IRHR6220
- IRHR6250

**Assumed Knowledge (Not applicable):**

- None
JAPN1110 Elementary Japanese 1
Units: 10
Locations: Callaghan
Designed for those with little or no previous knowledge of Japanese, the course provides basic knowledge of pronunciation, vocabulary, grammar, writing system and culture.
Assumed Knowledge: None

JAPN1120 Elementary Japanese 2
Units: 10
Locations: Callaghan
Designed for those with a knowledge of Japanese equivalent to a pass in JAPN1110. This course continues to provide basic skills in the areas of vocabulary, grammar, speaking, listening and cultural understanding.
Assumed Knowledge: A knowledge of Japanese equivalent to a pass in JAPN1110

JAPN2110 Intermediate Spoken Japanese 1
Units: 10
Locations: Callaghan
Designed for those with an understanding of simple Japanese. 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.
Assumed Knowledge: JAPN1120

JAPN2120 Intermediate Spoken Japanese 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: JPN211

JAPN2210 Intermediate Written Japanese 1
Units: 10
Locations: Callaghan
Designed to develop a student's knowledge of Japanese reading and writing skills and further cultural knowledge.
Assumed Knowledge: JAPN1120 or equivalent

JAPN2220 Intermediate Written Japanese 2
Units: 10
Locations: Callaghan
Designed to develop a student's knowledge of Japanese reading and writing skills and further cultural knowledge.
Assumed Knowledge: JAPN2210 or equivalent.

JAPN2410 Japanese Society and The World
Units: 10
Locations: Callaghan
This course examines aspects of Japanese society and culture using English-language texts.
Assumed Knowledge: None.

JAPN3110 Advanced Spoken Japanese 1
Units: 10
Locations: Callaghan
Focuses on improving students' skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.
Assumed Knowledge: JPN2120 Intermediate Spoken Japanese II.

JAPN3120 Advanced Spoken Japanese 2
Units: 10
Locations: Callaghan
Focuses on further improving students' skills and building up their confidence to discuss issues of everyday life in conversational as well as formal Japanese.
Assumed Knowledge: Advanced Spoken Japanese 1

JAPN3210 Advanced Written Japanese 1
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: JPN2220 or equivalent

JAPN3220 Advanced Written Japanese 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: JAPN2220 or equivalent

JAPN3310 Communication in Japanese 1
Units: 10
Locations: Callaghan
Designed to develop listening, speaking, reading and writing skills in Japanese. Based on a variety of Japanese texts including videos, films, literature, magazines and essays.
Assumed Knowledge: Any Japanese course at 2000 level or equivalent.

JAPN3320 Communication in Japanese 2
Units: 10
Locations: Callaghan
Designed to develop listening, speaking, reading and writing skills in Japanese. Based on a variety of Japanese texts including videos, films, literature, magazines and essays.
Assumed Knowledge: Any Japanese course at 2000 level or equivalent.

JAPN4150 Japanese Honours 1
Units: 20
Locations: Callaghan
The courses JPN4150, JPN4160, JPN4170 and JPN4180 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 3000 level, or equivalent.

JAPN4160 Japanese Honours 2
Units: 20
Locations: Callaghan
The courses JPN4150, JPN4160, JPN4170 and JPN4180 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 3000 level, or equivalent.

JAPN4170 Japanese Honours 3
Units: 20
Locations: Callaghan
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 3000 level, or equivalent.

JAPN4180 Japanese Honours 4
Units: 20
Locations: Callaghan
The courses JPN4150, JPN4160, JPN4170 and JPN4180 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 3000 level, or equivalent.

JAPN6001 Business Japanese
Units: 10
Locations: Callaghan
This course is designed for MBA students with no knowledge of Japanese. It provides students with a knowledge of basic conversational Japanese in a business setting.
Assumed Knowledge: None
LATN1010 Elementary Latin I
Units: 10
Locations: Callaghan
Introduces students to the study of Latin. Reading in the original language is accompanied by basic grammatical and syntactical instruction.
Assumed Knowledge: None.

LATN1020 Elementary Latin II
Units: 10
Locations: Callaghan
Introduces students to the study of Latin of the Classical Period, with emphasis on the 2nd century BC to the 2nd century AD. Reading in the original language is accompanied by basic grammatical and syntactical instruction.
Assumed Knowledge: LATN1010 or equivalent.

LATN2110 Latin for Historians I
Units: 10
Locations: Callaghan
Introduces the study of Latin for those needing to read Latin sources, involving basic grammar and syntax, prescribed reading, and problem solving exercises.
Assumed Knowledge: 20 units at 1000 level in Ancient History or Greek

LATN2120 Latin for Historians II
Units: 10
Locations: Callaghan
Further Latin for those needing to consult sources in the Latin language, involving further grammar, syntax, reading, and problem solving.
Assumed Knowledge: LATN2110

LATN2510 Intermediate Latin
Units: 20
Locations: Callaghan
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).
Assumed Knowledge: 20 units of Latin at 1000 level

LATN3520 Advanced Latin A
Units: 20
Locations: Callaghan
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

LATN3530 Advanced Latin B
Units: 20
Locations: Callaghan
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

LATN3540 Advanced Latin C
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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. The major modes of delivery will be through small classes in which the works of target authors are read.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4650 Latin Honours II
Units: 20
Locations: Callaghan
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 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. The major modes of delivery will be through small classes in which the works of target authors are read.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4660 Latin Honours III
Units: 20
Locations: Callaghan
This course is studied in conjunction with LATN4640, LATN4650, 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 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. The major modes of delivery will be through small classes in which the works of target authors are read.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LATN4670 Latin Honours IV
Units: 20
Locations: Callaghan
This course is studied in conjunction with LATN4640, LATN4650, and LATN4660. These courses exist for administrative purposes only, have no independent existence, and do not receive separate results. 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. The major modes of delivery will be through small classes in which the works of target authors are read.
Assumed Knowledge: An undergraduate major sequence in Latin or equivalent.

LAWS1001A Legal System & Method - Part A
Units: 10
Locations: Callaghan
Examines the Australian legal system, the constitutional framework and the development of sources of law, including the common law and legislation. The course 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 practice legal skills in interviewing clients, letter writing, negotiating settlements, drafting documents and running simple legal matters.
Assumed Knowledge: Nil

LAWS1001B Legal System & Method - Part B
Units: 10
Locations: Callaghan
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs. This course 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 course 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 practice legal skills in interviewing clients, letter writing, negotiating settlements, drafting documents and running simple legal matters.
Assumed Knowledge: Nil

LAWS1002A Criminal Law & Procedure - Part A
Units: 10
Locations: Callaghan
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. Introduces the principles of criminal responsibility and considers a broad range of criminal offenses, major defenses, aspects of criminal procedure, sentencing and the role of criminal law in society. The course 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.
Assumed Knowledge: Nil
LAWS1002B  Criminal Law & Procedure - Part B
Units: 10
Locations: Callaghan
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This course 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 course 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.
Assumed Knowledge: Nil
LAWS2003A  Torts - Part A
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LAWS1001A, LAWS1001B, LAWS1002A and LAWS1002B for students enrolled in combined law degree programs
LAWS2003B  Torts - Part B
Units: 10
Locations: Callaghan
LLB courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This course 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.
Assumed Knowledge: LAWS1001A, LAWS1001B, LAWS1002A and LAWS1002B for students enrolled in combined law degree programs
LAWS3004A  Contracts - Part A
Units: 10
Locations: Callaghan
LAWS 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 principles of contract law, including formation, estoppel parties, content and interpretation, performance, breach and ex-cases from performance. The course 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.
Assumed Knowledge: LAWS1001A, LAWS1001B, LAWS1002A, LAWS1002B, LAWS2003A and LAWS2003B for students enrolled in combined law degree programs
LAWS3004B  Contracts - Part B
Units: 10
Locations: Callaghan
LAWS courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
This course is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of this sequence.
Examines the principles of contract law, including formation, estoppel parties, content and interpretation, performance, breach and ex-cases from performance. The course 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.
Assumed Knowledge: LAWS1001A, LAWS1001B, LAWS1002A, LAWS1002B, LAWS2003A and LAWS2003B for students enrolled in combined law degree programs
LAWS3005  Property
Units: 10
Locations: Callaghan
LAWS courses are only available to students enrolled in Bachelor of Laws (LLB) degree programs.
Introduces students to the notion 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.
Assumed Knowledge: LAWS1001A, LAWS1001B, LAWS1002A, LAWS1002B, LAWS2003A, LAWS2003B, for students enrolled in combined law degree programs
LAWS4001  Constitutional Law
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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. Mechanisms for extra-judicial redress such as ombudsmen and freedom of information legislation, are also considered.
LAWS4003  Civil Procedure
Units: 10
Locations: Callaghan
Primarily about the resolution of civil disputes by means of court adjudication. It examines the law of civil procedure and related matters including jurisdiction, decorum, 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.
LAWS4004  Evidence
Units: 10
Locations: Callaghan
Introduces students to the legal rules and principles governing the proof of facts in civil and criminal trials. Topics include relevance, competence and compellability, kinds of evidence, the examination of witnesses, burdens and standards of proof, illegally obtained evidence and the rule against hearsay and its exceptions. The Evidence Acts 1995 (NSW) & (Cth) form the backbone to the course.
LAWS4005  Company Law
Units: 10
Locations: Callaghan
LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.
LAWS4006  Jurisprudence
Units: 10
Locations: Callaghan
LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.
LAWS4007 Professional Conduct
Units: 10
Locations: Callaghan
LAW courses are only available to students enrolled in Bachelor of Laws (LAWS) 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 Truth Accountancy workshops.

LAWS4008 Equity
Units: 10
Locations: Callaghan
LAW courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.

LAWS4010 Equity and Trusts
Units: 10
Locations: Callaghan
LAW courses are only available to students enrolled in the Bachelor of Laws (LAWS) 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 of the trust including charitable trusts; the administration of trusts; and the rights of the beneficiary.

LAWS4051A Trial Process - Part A
Units: 10
Locations: Callaghan
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LAWS/DipLegPrac) degree program.
This course 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.

LAWS4051B Trial Process - Part B
Units: 10
Locations: Callaghan
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LAWS/DipLegPrac) degree program.
This course 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.

LAWS4052A Legal Practice 1 - Part A
Units: 5
Locations: Callaghan
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LAWS/DipLegPrac) degree program.
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
It introduces the practice of law, focussing on litigation and legal transactions and gives some emphasis to professional responsibility and ethical behaviour. The subject is made up of a number of components which cover a variety of areas of practice where advocacy and legal transaction skills are utilised.
Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal transactions.
Classes usually held at University House.

LAWS4052B Legal Practice 1 - Part B
Units: 5
Locations: Callaghan
Only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LAWS/DipLegPrac) degree program.
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
It introduces the practice of law, focussing on litigation and legal transactions and gives some emphasis to professional responsibility and ethical behaviour. The course is made up of a number of components which cover a variety of areas of practice where advocacy and legal transaction skills are utilised.
Students undertake simulation exercises and attend legal office placements in the general areas of litigation and legal transactions.
Classes usually held at University House.

LAWS4053A Legal Practice 2 - Part A
Units: 5
Locations: Callaghan
This course is only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LLB/DipLegPrac) degree program.
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
Builds upon the course Legal Practice 1, focussing 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.

LAWS4053B Legal Practice 2 - Part B
Units: 5
Locations: Callaghan
This course is only available to students enrolled in the Bachelor of Laws/Diploma of Legal Practice (LAWS/DipLegPrac) degree program.
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
Builds upon the course Legal Practice 1, focussing 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.

LAWS5005 Advanced Legal Research and Writing
Units: 10
Locations: Callaghan
LAW courses are only available to students enrolled in Bachelor of Laws (LAWS) degree programs.
This course is available to Bachelor of Laws (LAWS) students who have obtained an average mark of 75% or more in all completed LLB courses or by arrangement with the Dean of Law. Refer to School policy on Honours contained in the School 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.

The course is only available to students in their final year of study in the LAWS or LAWS/Dip Leg Prac.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units:</th>
<th>Location:</th>
<th>Assumed Knowledge</th>
</tr>
</thead>
</table>
| LAWS5016    | Law Review                                       | 10     | Callaghan       | This course is only available to students enrolled in Bachelor of Laws (LAWS) degree programs.
| LAWS5062    | Conveyancing                                     | 10     | Callaghan       | This course is only available to students enrolled in Bachelor of Laws (LAWS) degree programs.

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Locations: Callaghan

LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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, monopolisation, 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.


This course is only available to students enrolled in Bachelor of Laws (LAWS) 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.


LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.


LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.


LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.


LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) 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.


LAWS courses are only available to students enrolled in Bachelor of Laws (LAWS) degree programs.

Introduces students to the laws governing the existence, ownership, use and enforcement of intellectual property rights, including copyright, designs, patents, and trademarks, as well as the law of breach of confidence, passing-off and deceptive and misleading conduct.

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LAW6053 Family Law
Units: 10
Locations: Calagahan
LLB courses 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.

LAW6054 Succession
Units: 10
Locations: Calagahan
LAW courses are only available to students enrolled in Bachelor of Laws (LAW) 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.

LAW6055 Taxation Law
Units: 10
Locations: Calagahan
LAW courses are only available to students enrolled in Bachelor of Laws (LAW) degree programs.
Deals with Australian income taxation law. Topics include constitutional power to levy taxes, income, allowable deductions, capital gains tax, with particular emphasis on tax in the context of borrowing money; property transactions, family law property settlement, wills and estates and compensation receipts.
Classes usually held at University House.

LAW6051 The Institutions and Methods of the Common Law
Units: 10
Locations: Calagahan
China
This is a compulsory subject in the Graduate Certificate in Common Law to be taught at Nankai University, Tianjin, China.
The subject introduces students to the institutions and methods of the common law.
The focus is upon Australia, but where relevant, Australia is compared with the UK and the USA. Topics include: the nature of law, rule of law, sources of law, constitutional government, the legal nature of a federation, the role of the judiciary and the legal profession, statutory interpretation and the doctrine of precedent.
Assumed Knowledge: Nil (As per admission rules students will have knowledge of Chinese Law and English)

LAW6053 Legal Research Method
Units: 10
Locations: Calagahan
This course is designed to introduce and refine students’ skills in legal research in its application to common law materials. It is a prescribed course for students in the Master of Common Law programme who have not been trained in common law research method at undergraduate level. The objectives of the course are to promote and develop a critical understanding and skills in the following areas:
- sources of law in the common law system
- primary and secondary sources of legal data
- finding and using primary and secondary sources in print
- finding and using primary and secondary sources in electronic form
- finding and using legal resources in the preparation of a research paper
Assumed Knowledge: Students should be concurrently enrolled in the courses LAWS6051 The Institutions and Methods of the Common Law and LAWS6052 Common Law Contract.

LAW6056 Civil Procedure
Units: 10
Locations: Calagahan
LAW600 level courses listed in the relevant schedule are only available to students enrolled in the Master of Common Law.
This course is 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.
The course 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.
Classes usually held at University House.
Assumed Knowledge: LAWS6051

LAW6057 Commercial Law
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Master of Common Law.
Introduces students to the laws which govern business transactions including sale of goods, consumer protection aspects of Trade Practices Law, and Insurance Law.
Classes usually held at University House.
Assumed Knowledge: LAWS6002

LAW6058 Company Law
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Diploma of Common Law/Master of Common Law.
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.
Assumed Knowledge: LAWS6001

LAW6059 Intellectual Property Law
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Diploma of Common Law/Master of Common Law.
Introduces students to the laws governing the ownership of intellectual property.
Assumed Knowledge: LAWS6001

LAW6060 Conflict of Laws
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Diploma of Common Law/Master of Common Law.
Also called Private International Law, deals with problems involving foreign or interstate elements which may be affected by provisions of the Commonwealth Constitution or by Federal and State legislation. The solutions that courts and legislatures have offered to conflict problems in a few areas of law will be examined critically.
Assumed Knowledge: LAWS6051

LAW6065 Evidence
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Diploma of Common Law/Master of Common Law.
Introduces students to the legal rules governing the proof of facts in civil and criminal trials. Topics include relevance, competence and compellability, 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.
Assumed Knowledge: LAWS6051

LAW6066 Family Law
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Diploma of Common Law/Master of Common Law.
Introduces the law regulating family relationships.
Classes usually held at University House.
Assumed Knowledge: LAWS6001

LAW6067 Health Law
Units: 10
Locations: Calagahan
LAW600 level courses listed in the relevant schedule are only available to students enrolled in the Master of Common Law.
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.
Assumed Knowledge: LAWS6051

LAW6075 Special Topic in Law 1
Units: 10
Locations: Calagahan
LAW600 level subjects listed in the relevant schedule are only available to students enrolled in the Graduate Certificate of Common Law/Master of Common Law.
This subject enables students to enhance their legal research skills and to develop their knowledge of a specialised area.
Assumed Knowledge: LAWS6001
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units: 10</th>
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<tr>
<td>LAWS6077</td>
<td>Taxation Law</td>
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<td>LAWS6079</td>
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<td>LAWS6080</td>
<td>Employment Law</td>
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<td>LEGL1001</td>
<td>Foundations of Law</td>
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<td>LEGL1002</td>
<td>Introduction to Legal Studies 1</td>
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<td>LEGL1004</td>
<td>Law of Employment</td>
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<td>LEGL2002</td>
<td>Law of Business Organisations</td>
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<td>LEGL2003</td>
<td>Competition Law and Policy</td>
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<td>LEGL2004</td>
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<td>LEGL2005</td>
<td>Contract Law</td>
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<td>LEGL2006</td>
<td>Marketing Law</td>
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<td>LEGL2007</td>
<td>Occupational Health and Safety Law</td>
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<td>LEGL2009</td>
<td>Survey and Engineering Law</td>
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<td>LEGL6001</td>
<td>Law for Managers</td>
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<td>LEIS1060</td>
<td>Introduction to Tourism</td>
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</table>
LEIS1110 Leisure and Society

Units: 10
Locations: Calagahan

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 inequality in contemporary leisure experiences.

Assumed Knowledge: n/a

LEIS1120 Leisure Organisation in Australia

Units: 10
Locations: Calagahan

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.

Assumed Knowledge: n/a

LEIS1130 Leisure Behaviour and Development

Units: 10
Locations: Calagahan

Applies concepts and theories relating to human behaviour and development to the study of leisure. This course examines the inter-relationships between human development and leisure experiences by paying attention to the reciprocal influences of development and leisure.

Assumed Knowledge: n/a

LEIS1140 Leisure Management Practice I

Units: 10
Locations: Callaghan

This course introduces students to a strategic approach to preparing for a career in the leisure industries. This course focuses upon developing in students a critical self-awareness of their personal and professional interests, and aptitudes. This critical self-analysis process includes the first in a series of Work Integrated learning where students are required to undertake a placement or training experience. The critical self-awareness component of this course lays the foundation for students to identify a flexible set of career related goals that will inform their career development. This course is available only to students enrolled in the Bachelor of Social Science (Recreation & Tourism).

Assumed Knowledge: n/a

LEIS2210 Leisure, Society and Contemporary Culture

Units: 10
Locations: Callaghan

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 this course will be placed on student presentations, independent research, and tutorial discussions based on readings and in-depth analysis of various popular cultural forms.

Assumed Knowledge: LEIS1110 or CULT1100 or SOCA1101

LEIS2220 Leisure Interactions and Identity

Units: 10
Locations: Callaghan

This course aims to deepen the students understanding of key issues relating to leisure and identity covered in first year core units. Students will be challenged to apply theories of social psychology to issues related directly to the leisure and tourism industries. They will also be encouraged to develop skills of critical thinking. The substantive content of the course creates a link between issues relating to leisure and identity covered in the first year core unit and the same issues developed in greater depth in the third year core unit. LEIS3320 Critical Perspectives in Leisure of the Bachelor of Social Science (Recreation and Tourism).

Assumed Knowledge: LEIS 1130 - Leisure Behaviour and Development

LEIS2230 Methods in Leisure Research

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: Leisure Management Practice I (LEIS 1140)
LEIS3150  Tourism Policy and Planning
Units: 10
Locations: Callaghan
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.

LEIS3310  Directed Reading
Units: 10
Locations: Callaghan
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.

LEIS3330  Leisure, Politics and the City
Units: 10
Locations: Callaghan
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.

LEIS3340  Professional Issues in Community Recreation
Units: 10
Locations: Callaghan
This course examines the relationships between planning, leadership and management of outdoor recreation events and programs. This course focuses specifically upon the proliferation of adventure recreation in outdoor contexts and considers contemporary trends associated with risk behaviour, and its management.

LEIS3400  Recreation and Tourism Honours I
Units: 10
Locations: Callaghan
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.

LEIS4000  Recreation and Tourism Honours II
Units: 10
Locations: Callaghan
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.

LEIS4100  Recreation and Tourism Honours III
Units: 10
Locations: Callaghan
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.

LEIS4110  Recreation and Tourism Honours IV
Units: 10
Locations: Callaghan
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.

LEIS6010  Introduction to Tourism Management
Units: 10
Locations: Callaghan
Presents a broad introduction to tourism management through an examination of major contemporary issues facing the tourism industry. Australian and overseas case studies will be used to critically examine selected issues concerning the tourism industry and to consider contemporary management responses to these issues. Major issues to be studied include: the economic, physical and social impacts of tourism; globalisation processes; tourism developments in the Pacific Rim; multinational investment and integration in the tourism industry; industrial issues within the tourism and hospitality industries; tourism marketing strategies; indigenous tourism; ecotourism and nature based tourism; tourism developments in urban and rural areas; environmental auditing and the application of sustainable tourism development strategies.

Assumed Knowledge: It is expected that students have a rudimentary understanding of the relationships between leisure, recreation and tourism, and of the concepts of resources and resource management. It is also expected that students would have a broad understanding of tourism and outdoor recreation in contemporary Australia. Enrolment in this subject is governed by the entry requirements for the Master of Applied Management.
LEIS6020 Tourism Policy and Planning

Units: 10
Locations: Callaghan

Examines tourism planning and policy-making processes in diverse urban, rural and natural settings, with reference to a range of theories and case studies. Public and private sector roles in contemporary tourism policy and planning are critically analysed with respect to tourism and regional development generally, and to enterprise management specifically. Key elements in strategic tourism planning are explained as a means of understanding and coping with complex and dynamic planning and policy-making environments. The links between strategic planning and the development of sustainable tourism enterprises and a sustainable tourism industry are demonstrated with reference to national, regional and local case studies in developed and developing nations.

Assumed Knowledge: It is expected that students have: a well developed understanding of the relationships between leisure, recreation and tourism; a broad understanding of the structure and roles of governments in Australia and overseas; an awareness of critical issues affecting the private sector and other industry interests in tourism development; a broad understanding of the economic, physical and social impacts of tourism; and a demonstrated awareness of the broader political, economic and social environments within which tourism takes place, and as dealt with in LEISS01. Enrolment in this course is governed by the entry requirements for the Master of Applied Management.

LEIS6030 Research Methods for Tourism Management

Units: 10
Locations: Callaghan

Introduces students to the nature, scope and uses of tourism research in a variety of tourism management and related environments. Students will attain an appreciation and understanding of the integral links between theory, method and findings, and of the relevance of sound research practices to tourism planning, management and policy-making. The course identifies important sources of tourism statistics and information, and examines key tourism theories and their application to tourism management practice in Australia and overseas. Students are introduced to qualitative and quantitative research methods, and the use of descriptive and inferential statistics. On completing this course, students will have obtained skills and knowledge enabling them to undertake research projects in ethical and methodologically sound ways, and to critically analyse research publications, reports and other documents.

Assumed Knowledge: It is expected that students have a well developed understanding of the tourism planning and management environment within and outside organisations. It is expected that students would have, or would simultaneously develop, a broad understanding of tourism management issues as dealt with in LEISS01 and LEISS02. Enrolment in this course is governed by the entry requirements for the Master of Applied Management.

LEIS6040 Applied Tourism Project

Units: 10
Locations: Callaghan

Students will undertake an advanced independent study embodying an applied investigation of a topic in the field of tourism management. Each student will consult with an academic advisor in selecting and designing their study topic. Students are required to maintain agreed and regular contact with their academic supervisor throughout their project. This course affords students a tangible opportunity to undertake a substantive project, which contributes to their personal and professional development. The project will enhance students’ knowledge and understanding of tourism management issues as they relate to the internal and external environments of tourism organisations, and will further develop students’ skills in critically analysing tourism policy, planning and management processes.

Assumed Knowledge: It is expected that students have a well developed understanding of tourism management theories, issues and practice. It is also expected that students would have sound understanding of tourism management issues, especially as dealt with in courses LEISS01, LEISS02 and LEISS03. Enrolment in this course is governed by the entry requirements for the Master of Applied Management.

LEIS6050 Advanced Theory and Method in Leisure Studies

Units: 10
Locations: Callaghan

Provides an opportunity to think critically and at an advanced level about the social research process in relation to the study of leisure. Topics addressed through case studies include the philosophical underpinnings of social research; the connections between theory and method; ethical issues; and the choice of particular methodologies and specific methods of data collection and analysis. Contact hours: 2 hours per week

Assumed Knowledge: Students will be expected to have a sound social scientific understanding of the various theoretical approaches that can be applied to the study of leisure, as well as a grounding in social research methods.

LGAL1000 Law for Managers and Entrepreneurs

Units: 10
Locations: Central Coast

Addresses key areas of law that are essential areas of knowledge for students who intend to undertake management or business careers. This course 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. International and electronic implications for these areas will be addressed. Assumed Knowledge: None

LING1110 Foundations of Language

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: No assumed knowledge.

LING1120 Language Structure and Meaning

Units: 10
Locations: Callaghan

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 multicultural communities in Australia, with particular attention to the role and status of community languages other than English.

Assumed Knowledge: None

LING2070 Auslan 1

Units: 10
Locations: Callaghan

This course provides the opportunity to commence the acquisition of Australian Sign Language (Auslan) as a second language, and an introduction to linguistic characteristics of sign languages.

Assumed Knowledge: None

LING2080 Auslan 2

Units: 10
Locations: Callaghan

This course provides continuing study of Australian Sign Language (Auslan), building on the foundations provided in LING2070 Auslan 1. Students will expand their ability to use the language in a variety of discourse forms and settings.

Assumed Knowledge: LING2070 Auslan 1 (or equivalent)

LING2090 Linguistics of sign languages (Auslan)

Units: 10
Locations: Remex College

This course builds on the foundations of introductory linguistics and focuses on issues relating to sign language grammar, sign language phonology, sign morphology, sign syntax and sign semantics. An examination of Auslan from sociolinguistic, psycholinguistic, and historical linguistics perspectives will also form an essential aspect of this course.

Assumed Knowledge: LING2070 or equivalent knowledge of Auslan; LING1110 or equivalent

LING3001 Communication in Interaction

Units: 10
Locations: Callaghan

The course is designed for students anticipating the need for a high degree of communicative competence in verbal interaction in their day-to-day interactions and in their professional work. The course explores how what we say is influenced by who we are talking to, when and where. We also look at how what we mean can be interpreted with regard to context. Students will learn ways to analyse their own and others’ verbal communication. They will have the opportunity to learn experientially about ways to adapt their own communication to meet the demands of the cultural context of interaction. The course also provides a framework to consider ways to strategically promote the communication of others in professional contexts.

Assumed Knowledge: No assumed knowledge

LING3060 Current Issues in Linguistics

Units: 10
Locations: Callaghan

This course allows students to pursue an advanced specialisation in an area of current relevance in Linguistics, by following a course of directed readings, by attending seminars, or by pursuing a supervised research project. Topics addressed will be chosen from issues such as semantics and pragmatics, language acquisition and linguistic theory, social variation in language, recent advances in syntactic theory, cross-cultural pragmatics etc. Particular areas offered each semester will depend on student interests and staff availability.

Assumed Knowledge: This is an advanced course in Linguistics. Students will be expected to have completed at least 50 units of Linguistics prior to enrolling in this course.
LING3110 Language and Cognition
Units: 10
Locations: Callaghan
Studies language processing and hemispheric specialization; competing views of language acquisition process (e.g. cognitivist, nativist, relativist, connectionist); the relationship between language development and the development of other cognitive capacities; and universals of language development.
Assumed Knowledge: LING1110 or equivalent

LING3110 Language and Cognition
Units: 10
Locations: Callaghan
Studies language processing and hemispheric specialization; competing views of language acquisition process (e.g. cognitivist, nativist, relativist, connectionist); the relationship between language development and the development of other cognitive capacities; and universals of language development.
Assumed Knowledge: LING1110 & LING1120 or equivalent

LING3120 Second Language Acquisition
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING111, LING112

LING3170 Historical Linguistics
Units: 10
Locations: Callaghan
Provides the opportunity to study the nature and development of language change, including changes in word meaning, sound systems, and syntactic and morphological structure. Processes of change are illustrated first through an historical overview of English, and then are explored more generally across a range of language families.
Assumed Knowledge: LING111 and LING112 or equivalent

LING3200 Speech and Language Disorders
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING111

LING3220 Language in Aboriginal Australia
Units: 10
Locations: Callaghan
Central Coast
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 SOCA1110 or equivalent

LING3280 Language in Education
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING1110

LING3310 Semantics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING1120 or equivalent

LING3320 Syntax
Units: 10
Locations: Callaghan
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 organisation of Chomsky's Government-Binding Theory, and its application to English and selected additional languages.
Assumed Knowledge: LING 1110 or equivalent knowledge of elementary grammatical terminology.

LING3340 Phonetics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: LING 1120 or equivalent introduction to Phonetics.

LING3350 Structure of English
Units: 10
Locations: Callaghan
Central Coast
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.
Assumed Knowledge: LING1110 or equivalent knowledge of elementary grammatical terminology.

LING4050 Linguistics Honours I
Units: 20
Locations: Callaghan
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 LING4060, LING4070 and LING4080 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student's overall performance in the four courses.
Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a bachelors degree program which includes a major sequence in the discipline of Linguistics.

LING4060 Linguistics Honours II
Units: 20
Locations: Callaghan
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 LING4050, LING4060 and LING4080 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student's overall performance in the four courses.
Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a bachelors degree program which includes a major sequence in the discipline of Linguistics.

LING4070 Linguistics Honours III
Units: 20
Locations: Callaghan
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 LING4050, LING4060 and LING4080 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student's overall performance in the four courses.
Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a bachelors degree program which includes a major sequence in the discipline of Linguistics.

LING4080 Linguistics Honours IV
Units: 20
Locations: Callaghan
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 LING4050, LING4060 and LING4070 to comprise the Honours program in Linguistics. The grade of Honours awarded is based on the student's overall performance in the four courses.
Assumed Knowledge: Entry to Linguistics Honours is on the basis of successful completion of a bachelors degree program which includes a major sequence in the discipline of Linguistics.

LING6020 Structure of English
Units: 10
Locations: Callaghan
This course examines the sound systems of English (phonetic and phonological) and the syntactic structure of simple and complex English sentences.
Assumed Knowledge: nil
LING6030 Second Language Acquisition
Units: 10
Locations: Callaghan
This course will provide students with psychological, sociological and linguistic perspectives on the acquisition of a second language, with particular emphasis on English as a Second/Foreign language.
Assumed Knowledge: Foundations of Linguistics (LING6910) or equivalent.

LING6040 Language Testing & Evaluation
Units: 10
Locations: Callaghan
The course focuses on current theories of Language Testing within contemporary Applied Linguistics, and will provide students with essential knowledge and practical skills in the area of language test design and administration, and evaluation of language proficiency.
Assumed Knowledge: Foundations of Linguistics (LING6910) or equivalent

LING6050 Language Acquisition and Cognitive Development
Units: 10
Locations: Callaghan
Studies language processing and hemispheric specialisation; competing views of the language acquisition process (e.g. cognitivist, nativist, relativist, constructionist); the relationship between language development and the development of other cognitive capacities; and universals of language development.
Assumed Knowledge: LING1110 or LING6910 or equivalent

LING6110 Linguistic Aspects of Translation
Units: 20
Locations: Callaghan
A series of seminar presentations and lectures which will focus on practical linguistic aspects of translation. Topics to be covered include: grammar, meaning, discourse, lexicography and pragmatics. The cross-linguistic comparison of languages will also include communicative aspects including some study of sociolinguistics.
Assumed Knowledge: LING6910 or equivalent.

LING6120 Translation Theory and Practice
Units: 10
Locations: Callaghan
This course investigates the history of translation, focussing on the contrasts between the Anglo-American, European and Asian traditions. It explores the various assumptions underlying the notion of “good translation” and the potential conflict between a faithful rendition of verbal content and stylistic integrity. A section of the course will be devoted to ethical considerations in translation practice, including cultural awareness and client confidentiality.
Assumed Knowledge: nil

LING6130 Practical Translation (into English)
Units: 10
Locations: Callaghan
Distance Education - Callaghan
Students will undertake a number of translations of short passages into English from one of the following languages: French, German, Japanese, Mandarin. Discussion of translation difficulties that arise from structural, semantic and pragmatic differences between the source language and English.
Assumed Knowledge: High level of competency in source language (French, German, Japanese or Mandarin).

LING6140 Practical Translation (from English)
Units: 10
Locations: Callaghan
Students will undertake a number of translations of short passages out of English into one of the following languages: French, German, Japanese, Mandarin. Discussion of translation difficulties that arise from structural, semantic and pragmatic differences between English and the target language.
Assumed Knowledge: High level of competency in target language (French, German, Japanese or Mandarin).

LING6140 Practical Translation (from English)
Units: 10
Locations: Callaghan
Students will undertake a number of translations of short passages out of English into one of the following languages: French, German, Japanese, Mandarin. Seminars will provide the opportunity for discussion of translation difficulties that arise from structural, semantic and pragmatic differences between English and the target language.
Assumed Knowledge: High level of competency in target language (French, German, Japanese or Mandarin).

LING6150 Translation Project
Units: 20
Locations: Callaghan
Students will undertake the translation of a substantial text (equivalent to approximately 5000 words of prose text) either from English into French, German, Japanese or Mandarin, or into English from one of these languages. The translation will be accompanied by a commentary (of about 3000 words) detailing linguistic and cultural problems encountered in the translation process.
Assumed Knowledge: Experience in translation equivalent to LING6130 or LING6140

LING6201 Sociolinguistics of Online Communication
Units: 10
Locations: On-line from Callaghan
The course will provide an introduction to sociolinguistics for postgraduate students who depend on e-technology. It will consider the diverse interrelationships between natural languages, such as English, and language users online. Through a linguistic exploration of online communication, it will enable students to understand the virtual environment better and use it more effectively.
Assumed Knowledge: Undergraduate degree in any field; Basic familiarity with computers and computer-mediated communication, such as email.

LING6910 Foundations of Linguistics
Units: 10
Locations: Callaghan
The course provides foundation knowledge in theoretical and methodological principles of linguistics. Students are introduced to the study of the organisation of information within linguistic systems and to the study of language acquisition and language use.
Assumed Knowledge: nil

LING6920 Applications of Linguistics
Units: 10
Locations: Callaghan
This course allows students to pursue an advanced specialisation in an area of current relevance in Linguistics, by attending lectures or seminars or by following a course of directed readings. Topics addressed will be chosen from issues such as language in education, discourse analysis, speech and language disorders, cross-cultural pragmatics etc. Particular areas offered each semester will depend on student interests and staff availability.
Assumed Knowledge: LING6910 or equivalent.

LING6930 Language and Meaning
Units: 10
Locations: Callaghan
The course focuses on the study of the organisation of information within linguistic systems, both semantics (linguistic meaning) and pragmatics (speaker meaning). Particular attention will be paid to ways in which language expresses space and time relationships through deixis expressions and canonical/relational expressions; to textual relationships such as anaphora and scope; and to pragmatic concepts such as presupposition and implicature.
Assumed Knowledge: LING6910 or equivalent.

LING6950 Research Preparation
Units: 10
Locations: Callaghan
This course introduces basic principles of research methodology in the various branches of the discipline of Linguistics. Students review the current theoretical and empirical research literature in order to argue for a specific research question or direction for further research. The major modes of delivery are individual and small group research supervision and tutorials.
Assumed Knowledge: LING6910 (or equivalent)

LING6960 Research Project
Units: 10
Locations: Callaghan
This course extends students’ experience with research methodology in a branch of the discipline of Linguistics. Building upon their previous development of a proposal for research (in LING6950), in this course students develop a research project. Where appropriate, and with clearance from the Faculty of Arts & Social Science Research Ethics Committee, some students will be involved in data collection to support their thesis. Students present their completed work in the form of a research thesis, and seminar presentation. The major modes of delivery are individual and small group research supervision and tutorials.
Assumed Knowledge: LING6960
STEC2030 Applied Biometrics

Assumed Knowledge: STEC2020 Introduction to Biometrics

This unit of study will allow the student to apply the necessary skills in the field, with an emphasis on environmental impacts, and statistical analysis of data from marine ecological research. The course will introduce students to techniques used in marine science and will examine the student'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: BIOL1010 Plant and Animal Biology

MARI2300 Marine Biology

Introduces the world's oceans, which offer a wide range of environmental conditions to support marine life. Specific topics 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

MARI2320 Marine Ecology

Focuses on specific marine ecological concepts, recognizing the importance, complexity and fragility aspects of the biological environment. Topics include the effects of oceanographic factors on marine organisms, marine sediment biology, marine habitats, nutrient cycles and human impacts.

Assumed Knowledge: MARI2300 Marine Biology

MARI3300 Marine and Coastal Floral Ecology

Provides required skills such as research techniques to help provide the student with a well-rounded background and thus making them highly competitive in the field of aquatic research. Level 1 (AS2815.1) Occupational Diving Certification obtained upon successful completion of this course.

Assumed Knowledge: BIOL1010 Animal and Plant Biology

MARI3330 Marine Fish & Fisheries

Provides an introduction 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: BIOL2070 Ecology

MARI3400 Marine Science Project

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 course will require two seminar presentations (research proposal and final results), two brief progress reports, and a critique of a selected research paper.

Assumed Knowledge: BIOL2070 Ecology

MARI4100 Marine Science Honours 411

The course provides an advanced and substantive education in Marine Science. 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 course develops an understanding of advanced theory underpinning Marine Science.

Assumed Knowledge: BSc or equivalent

MARI4120 Marine Science Honours 412

The course provides an advanced and substantive education in Marine Science. 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 course develops an understanding of advanced theory underpinning Marine Science.

Assumed Knowledge: BSc or equivalent

MARI4130 Marine Science Honours 413

The course provides an advanced and substantive education in Marine Science. 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 course develops an understanding of advanced theory underpinning Marine Science.

Assumed Knowledge: BSc or equivalent

MARI4140 Marine Science Honours 414

Provides an advanced and substantive education in Marine Science. 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 course develops an understanding of advanced theory underpinning Marine Science.

Assumed Knowledge: Bachelor of Science or equivalent

MARI6910 Foundations of Marine Science

This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 credit points of topic material for study. This can be based on available coursework from the following list of courses. Students will be expected to read beyond the standard course, and assessment will be independent of the standard assessment and at an appropriate level. Topic related primary courses (select 20 credit points; each topic worth 10 cp): STEC2030 Applied Biostatistics

Assumed Knowledge: Degree, or equivalent, from an approved institution.
MARI6920 Topics in Marine Science
Units: 20
Locations: Central Coast
This unit provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their project. Students must choose 20 credit points of material based on the following list of reading list courses available in common to honours and masters year level candidates, but examined independently. All topics are of 10 credit points equivalent value, so two topics must be selected in total. In general, it is anticipated that students will be following a theme in preparation for their research project by this time in their course.
Select two of:
- Advanced Estuarine Ecology
- Advanced Marine Ecology
- Advanced Marine Biology
- Advanced Marine and Coastal Floral Ecology
Specific details for each of the above courses are available in a separate semester course information leaflet.
Assumed Knowledge: Degree, or equivalent, from an approved institution.

MARI6930 Advanced Topics in Marine Science
Units: 20
Locations: Central Coast
This unit will provide students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students must choose 20 credit points of material based on the following list of reading list courses available in common to honours and masters year level candidates, but examined independently. All topics are of 10 credit points equivalent value, so two topics must be selected in total. In general, it is anticipated that students will be following a theme in preparation for their research project by this time in their course.
Select two of:
- Advanced Estuarine Ecology
- Advanced Marine Ecology
- Advanced Marine Biology
- Advanced Marine and Coastal Floral Ecology
Specific details for each course is available from the School Office.
Assumed Knowledge: MARI6910

MARI6940 Research Developments in Marine Science
Units: 20
Locations: Central Coast
This unit provided students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students must choose 20 units of material at an advanced specialist level appropriate to their project area. The latter material is to be provided by their project supervision committee of three, after consultation with the candidate. Two topics related to a selected research interest or, in particular, the planned research area, chosen by the course supervision committee (10 units each).
Advanced Ecological Methodology
Advanced Scientific Diving and Underwater Research Techniques
Advanced Marine Fish and Fisheries
These topics will be individually tailored to suit the candidate’s area of interest, and may involve a training component relating to the use and application of specific scientific instruments which will be employed by the student in their MARI6950 and MARI6960 project. Because topics in this part are selected with reference to an individual’s research interest and/or project area selection, the candidate can expect material for assessment will be at a comparable level of difficulty to topics in MARI6930.
Assumed Knowledge: MARI6910

MATH1100 Preliminary Mathematics
Units: 10
Locations: Callaghan
Many relationships in the real world can be modelled mathematically via a “function”. Assuming only a basic proficiency in algebra and geometry, the first half of the course prepares for and then introduces the main classes of functions (such as the trigonometric functions and the exponential functions) used in science. The second half of the course provides an introduction to the main ideas of Calculus. Calculus provides many mathematical tools for working out properties of functions. This course is suitable for students who want to enroll in MATH1110 (standard first year mathematics course) but who do not have a sufficient background in mathematics. Alternatively, this course can act as an introduction to mathematics for students of science, arts or economics.
Assumed Knowledge: Basic arithmetic, algebra and geometry. A diagnostic quiz is available at the Online Resources link of the School web page http://www.newcastle.edu.au/school/math-physical-sci/tal/index.html

MATH1110 Mathematics 1
Units: 10
Locations: Central Coast
PSB Singapore
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 courses, MATH1110 and MATH1120, designed to cover a range of mathematical topics of importance to students in the Sciences, Engineering or Commerce. In algebra, students learn concepts and symbolic manipulation when calculating with large numbers of variables. In calculus, they learn concepts used when working with continuously changing variables. Both ways of thinking are essential in the mathematics met by students in the Sciences, Engineering and Commerce.
Not to be counted for credit with MATH1210.
Assumed Knowledge: HSC Mathematics (Bands 5 or 6) or prior to 2001, a score of at least 65/100 in HSC 2Unit Mathematics, or equivalent. Students who obtained less than this in 2Unit mathematics are advised to do MATH1100 first.

MATH1120 Mathematics 2
Units: 10
Locations: Callaghan
PSB Singapore
Covers the mathematics necessary to perform calculations in, and create models for, the real world of Science and Engineering. Specifically, it will demonstrate how to do mathematics in a three-dimensional world. The course 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.
Not to be counted for credit with MATH1220.
Assumed Knowledge: MATH1110

MATH1210 Advanced Mathematics 1
Units: 10
Locations: Callaghan
Gives students a firm grounding in the main ideas of algebra and calculus. In algebra, students learn concepts and symbolic manipulation when calculating with large numbers of variables. In calculus, they learn concepts used when working with continuously changing variables. Both ways of thinking are essential in Mathematics and when creating and using mathematical models in Science, Engineering and Commerce.
All students whose degree requires first-year mathematics may take MATH1210 in preference to MATH1110. There is substantial overlap between MATH1110 and MATH1210; students’ performance on this common material is compared and used to scale the marks to ensure that comparable students achieve comparable grades.
Not for credit with MATH1100.
Assumed Knowledge: HSC Mathematics Extension 2 or HSC Mathematics Extension 1 (Band 4) or (prior to 2001) 3 Unit HSC Mathematics with a mark of at least 120/150.
Students who do not have this assumed knowledge are advised to take MATH1110. They may major in mathematics by taking MATH1120 and the bridging course MATH2340 in their second year.

MATH1220 Advanced Mathematics 2
Units: 10
Locations: Callaghan
Continues the development of linear algebra and calculus from MATH1210. In algebra, students learn how matrices may be simplified by an appropriate choice of coordinates. Known as the eigenvalue technique, this is a very powerful mathematical tool and is used throughout Science and Engineering. In calculus, students learn the mathematics behind algorithms used in calculators for computing exponential, trigonometric and other functions. They are also introduced to functions of several variables and to the notion of a differential equation, which are key concepts in mathematical modelling.
This subject is a sequel to MATH1210 and is likewise intended for prospective mathematics majors and those who have a strong background in mathematics. There is substantial overlap with MATH1210; students’ performance on this common material is compared and used to scale the marks to ensure that comparable students achieve comparable grades.
Not to be counted for credit with MATH1120.
Assumed Knowledge: MATH1210

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MATH1140 Mathematics for Psychology
Units: 10
Locations: Callaghan
Tailored for students in the Bachelor of Psychology program, this course introduces the mathematics and statistics necessary for further quantitative study in Psychology. The material covered in the course is designed to give students the skills needed to analyse and manipulate data arising from experiments.

MATH1510 Discrete Mathematics
Units: 10
Locations: Callaghan
Principally for first year students to the basic concepts of discrete mathematics, covering topics such as logic, enumeration methods, probability relations, recurrence relations, induction, graph theory 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.

MATH1610 Mathematical Techniques for Information Technology
Units: 10
Locations: Callaghan
Provides a foundation for the mathematical concepts most widely applied in information technology. It emphasises both the skills and techniques useful in the quantitative and logical aspects of the management of information. It introduces students to the basic concepts of discrete mathematics covering topics such as sets, relations, enumeration methods, probability, number systems, graph theory, logic and Boolean algebra.

MATH1900 Elementary Mathematics
Units: 10
Locations: Callaghan
Exposes the student to a broad range of elementary but important topics in Mathematics that are especially relevant for intending early childhood and primary teachers.

MATH2310 Calculus of Science and Engineering
Units: 10
Locations: Callaghan
PSB Singapore
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.

MATH2330 Analysis
Units: 10
Locations: Callaghan
Makes precise the notions of convergence and continuity and examines the validity of intuition about these notions. The course thus puts calculus on a firm foundation and establishes the range of its application. Convergence and continuity form the foundation for much more than elementary calculus and the course also aims to orient students towards these further developments. This course is therefore appropriate for those intending to teach mathematics, as well as those who wish to pursue further study in mathematics.

MATH2420 Engineering Mathematics II
Units: 10
Locations: Callaghan
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, as well as essential concepts associated with both discrete and continuous probability spaces. These topics provide an essential foundation for modern control engineering and signal processing. Forms the analytical basis for subsequent engineering courses studied in the third and fourth years of the program as well as generic mathematical skills of problem-solving and abstract reasoning.

MATH2470 Partial Differential Equations in Engineering
Units: 10
Locations: Callaghan
Introduces classical methods for solving partial differential equations.

MATH2600 Mathematical Software
Units: 10
Locations: Callaghan
Provides students with a broad range of skills in mathematical software and the communication of mathematics by introducing a computer algebra system and a mathematical typesetting system. The course is intended primarily to give BMath students the appropriate technological tools for research in modern mathematics. This course would also be of benefit to people who use or anticipate using mathematics and/or mathematical technology in the workplace.

MATH2710 Modelling Dynamical Processes
Units: 10
Locations: Callaghan
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 extensive branch of mathematics is known as dynamical systems. Models of real-life problems will be analysed, with examples drawn from economics, engineering, the biological, physical and life sciences. MATH2710 is a recommended option for BMath students, and is also suitable for students in Science and Engineering.

MATH3310 Engineering Mathematics III
Units: 10
Locations: Callaghan
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, as well as essential concepts associated with both discrete and continuous probability spaces. These topics provide an essential foundation for modern control engineering and signal processing. Forms the analytical basis for subsequent engineering courses studied in the third and fourth years of the program as well as generic mathematical skills of problem-solving and abstract reasoning.

MATH3320 Stochastic Processes
Units: 10
Locations: Callaghan
Principally for first year students to the basic concepts of stochastic mathematics, covering topics such as discrete and continuous random variables, probability distributions, expectation and variance, 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.

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Locations: Callaghan
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MATH2730 Operations Management
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: MATH1100 or MATH1210 or MATH1510 or ECON1130 or STAT1050 or STAT1070.

MATH2910 A Practical Approach Elementary Mathematics
Units: 10
Locations: Callaghan
Selected topics from the key areas of K-6 syllabus (Space, Number and Measurement) are developed beyond that done in MATH1900. The aim in studying these extensions is to put the topics taught at the elementary level into the broader perspectives of the discipline of mathematics and the teaching of Mathematics.
Assumed Knowledge: MATH1900

MATH2920 Perspectives on Elementary Mathematics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: MATH1900

MATH3010 LOGIC AND SET THEORY
Units: 10
Locations: Callaghan
Examines the logical foundations of concepts used throughout mathematics, such as order and equivalence relations, number and continuity. The use of infinity in mathematical arguments is investigated and implicit assumptions about infinite sets are exposed. Notions of infinity are formulated precisely and it is shown how infinite sets may be counted and compared in size. It is seen that, even in something as basic as set theory, ‘truth’ is not absolute.
Offered in even years.
Assumed Knowledge: MATH1220

MATH3120 Algebra
Units: 10
Locations: Callaghan
Extends the application of the familiar algebraic laws for adding and multiplying numbers, matrices and vectors to other contexts. Depending on just which laws are satisfied, the algebraic structures studied are called fields, rings and modules. These concepts underlie much of modern mathematics, and are essential background for research in any area of pure mathematics. Particular applications to error correcting code will be considered.
Assumed Knowledge: MATH2220

MATH3170 Number Theory
Units: 10
Locations: Callaghan
Number Theory, which deals with properties of the positive integers, is one of the oldest branches of mathematics. Many of its problems are very easy to understand, but some such as Fermat’s famous “Last Theorem” are devilishly hard to solve. In recent years, old ideas have found practical applications. This course provides an introduction to the important basic topics of number theory: prime numbers, factorisation, congruence and diophantine equations. These topics are treated from a modern point of view, emphasising the underlying algebraic structure. They provide the necessary background for a brief introduction to modern cryptograp-hy.
Offered in odd years.
Assumed Knowledge: MATH2320

MATH3180 Topology
Units: 10
Locations: Callaghan
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 the more general settings of metric and topological spaces. This greatly expands the scope of their applicability. The material lies at the heart of many developments in modern mathematics and provides a perfect example of the breadth and unity of mathematics.
Assumed Knowledge: MATH2320 and MATH2330

MATH3200 An Introduction to Hilbert Spaces
Units: 10
Locations: Callaghan
Introduces the most user-friendly of the various spaces occurring in analysis, chosen because their geometry is most like that of familiar two and three dimensional Euclidean space. Hilbert Spaces provide an excellent framework for the study of quantum mechanics, classical subjects like Fourier analysis and the developing theory of wavelets. Consequently they arise frequently in application such as theoretical physics control theory and image processing. They also underlie much of the research effort of mathematicians in the Functional Analysis Group at Newcastle.
Assumed Knowledge: MATH2320 and MATH2330

MATH3210 Seminar
Units: 10
Locations: Callaghan
Offers students the opportunity to develop their presentation skills, both written and oral by pursuing a topic related to an area of current research in modern mathematics. The topic is individually chosen to suit the student’s background and aspirations, and will be studied by directed reading, assigned project work, or participation in honours lectures and seminars, under the supervision of a senior member of the academic staff. Study of the topic will culminate in a seminar presentation of the material to other students in the course and staff.
This course is intended for mathematics majors in the B.Sc and B.Math programs. Participation in this course requires the permission of the BMath coordinator.
Assumed Knowledge: A good strong background in MATH2000 and MATH3000 courses relevant to the topic chosen.

MATH3230 Linear Operators
Units: 10
Locations: Callaghan
Intended for mathematics majors and for scientists for whom the material has important applications in electronics and quantum physics.
This course provides an introduction to the main ideas of Operator Theory and Functional Analysis, in which the University of Newcastle is a leading international research centre. The course provides invaluable background for students who might wish to pursue advanced studies in mathematics or related areas, and especially in those who might be interested in working with the Functional Analysis Research Group at Newcastle.
Assumed Knowledge: MATH3200

MATH3400 Research Topics in Mathematics
Units: 10
Locations: Callaghan
Provides students with the opportunity to pursue a topic related to an area of current research in modern mathematics. The topic is individually chosen to suit the student’s background and aspirations, and will be studied via directed reading, assigned project work, or participation in honours lectures and seminars, under the supervision of a senior member of the academic staff.
Participation on this course requires the permission of the BMath coordinator.
Assumed Knowledge: A good strong background in MATH2000 and MATH3000 courses relevant to the research topic.

MATH3510 Combinatorics
Units: 10
Locations: Callaghan
Combinatorics is a blend of the mathematical techniques applicable to Computer Science, Information Technology and Statistics. This is ‘discrete’ mathematics as distinct from the continuous mathematics of calculus. It is a major growth area in modern mathematics, largely because of new-found applications in areas such as biotechnology and communication security.
Much of the subject matter is a continuation of topics studied in MATH1510 such as graphs, trees, and enumeration, and additional topics such as experimental design and finite geometry are introduced. Some use is made of basic techniques from calculus and abstract algebra.
Offered in even years.
Assumed Knowledge: MATH1510

MATH3700 Differential Equations
Units: 10
Locations: Callaghan
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 either MATH2320 or MATH2420
MATH3710 Fractals
Units: 10
Locations: Callaghan
Fractal geometry emerged as a discipline in its own right only in the latter part of the 20th century when the power of the computer enabled ready visualization of the objects under study. Even so, interest in the subject has been strong across a broad spectrum of the mathematical and scientific community and it has grown into a large and diverse body of knowledge.
Assuming that this is the first time that you have formally studied fractals this course aims to provide an introduction to fractal geometry and its applications.
Assumed Knowledge: MATH1220 Advanced Mathematics 1220 or MATH2340 Algebra and Geometry

MATH3720 Topics in Applicable Mathematics
Units: 10
Locations: Callaghan
Mathematics is used in ecology, commerce, industry, and indeed in many areas of human activity. Interesting mathematical applications from these areas will be studied with emphasis on the important principles involved in constructing effective mathematical models. The usefulness and limitations of the various applications will be discussed. The course covers all aspects of the modelling procedure: development analysis, interpretation and refinement through the consideration of case studies drawn from areas such as traffic engineering, biological systems and industrial processes. During these studies, students will be introduced to relevant, new mathematical skills and techniques.
Offered in EVEN years
Assumed Knowledge: MATH2310

MATH3750 Financial Mathematics
Units: 10
Locations: Callaghan
Financial considerations influence all aspects of our lives. A good understanding of the mathematical models on which many financial decisions are made is essential. This course will enable students to carry out many of the calculations used in financial modelling and to appreciate the approximations used to obtain tractable solutions to complex financial dealings.
The course includes material on difference equations and stochastic equations of various types which underpin much of the financial modelling used in commerce and world financial markets.
MATH3750 is compulsory for students taking a finance co-major in the BMath degree or the quantitative stream with the BFin.
Assumed Knowledge: MATH1120 or MATH1220.

MATH4110 Mathematics Honours 4110
Units: 20
Locations: Callaghan
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. Alternatively, it 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 program spanning two semesters of full-time study or four semesters of part-time study. The Honours program requires students to study 6 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 unit semester length subjects: MATH4110, MATH4120, MATH4210, MATH4220.
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 3000 level is required for entry into Honours.

MATH4120 Mathematics Honours 4210
Units: 20
Locations: Callaghan
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. Alternatively, it 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 6 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 unit semester length subjects: MATH4110, MATH4120, MATH4210, MATH4220.
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 3000 level is required for entry into Honours.

MATH4210 Mathematics Honours 4210
Units: 20
Locations: Callaghan
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. Alternatively, it 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 6 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 unit semester length subjects: MATH4110, MATH4120, MATH4210, MATH4220.
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 3000 level is required for entry into Honours.

MATH4220 Mathematics Honours 4220
Units: 20
Locations: Callaghan
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. Alternatively, it 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 6 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 unit semester length subjects: MATH4110, MATH4120, MATH4210, MATH4220.
Assumed Knowledge: Students intending to pursue Honours in Mathematics should consult with the Head of School or the Mathematics Honours Coordinator prior to their commencement. A credit level average in a mathematics major at the 3000 level is required for entry into Honours.

MATH6600 Mathematical Techniques in Finance
Units: 10
Locations: City Precinct
This course is intended to introduce Master of Applied Finance students to some of the mathematical terminology and techniques used in various types of financial calculations. At the completion of this course students should be able to carry out these calculations, and have a deeper insight into the background of mathematics used in financial systems.
Assumed Knowledge: General numerical skills.

MATH6610 Mathematical Techniques for Information Technology
Units: 10
Locations: Callaghan
This course 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. The course ensures that students have the appropriate mathematical background for the study of databases, algorithms and other analytical aspects of Information Technology. It helps to develop their problem-solving skills as well as introducing them to the concept of a mathematical model as a means of simplifying complex situations.
MATH6610 is recommended by the ACS as a core course in the training of information technology professionals. Has a similar role in the M.Info.Tech. to that of MATH610 in the B.Info. Sci. The content of the two courses therefore parallel one another, but material in MATH6610 is presented and examined at a more demanding level to exploit the greater maturity of M.Info.Tech. students.
Assumed Knowledge: An undergraduate degree.

MATH6710 Operations Management 1
Units: 10
Locations: Callaghan
Distance Education - Callaghan
This course introduces basic operations management concepts and gives an overview of how these concepts improve business performance. It provides a practical framework for operations management, project management and operations planning. It will give the student a basic understanding of operations process improvement and decision making.
Assumed Knowledge: NIL
MATH6720 Operations Management 2

Units: 10
Locations: Callaghan

This course introduces the student to the ideas and techniques of Operations Research, which concerns the use of scientific 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 course will focus on a number of illustrative case studies. Throughout, use will be made of relevant widely used software packages.

Upon completion of the course students will have facility with some of the more basic methods used in operations management. More importantly, however, as potential managers and business leaders they will be able to recognise when such methods could profitably be employed, interpret and utilize the findings from such analyses, and appreciate the scope and limitations of such procedures.

Assumed Knowledge: NIL

MATH6750 Dynamical Systems and Modelling

Units: 10
Locations: Callaghan

Provides an introduction to dynamical systems, a fascinating and diverse area of modern mathematics with many applications in information technology, engineering, economics and the physical sciences.

The course is designed to give students from different backgrounds a glimpse of the basic techniques and phenomena of dynamical systems and the way it may be used to analyse models applicable to real world situations. They will achieve this by a mix of theory and practical investigation via computer software packages. An understanding of the concepts and methods used in this course will be of use in a variety of applications.

Assumed Knowledge: MATH1120 or MATH220

MATH6770 Case Studies in Modelling

Units: 10
Locations: Callaghan

Case studies taken from ecology, commerce, industry, and many areas of technology will be used to investigate the methods of mathematical modelling. Students will gain an understanding of the important principles involved in constructing effective mathematical models. They will be able to highlight the usefulness and limitations of the various approaches discussed throughout this course. The use of mathematical modelling is widespread throughout technology, engineering and science. The course studies all aspects of the modelling procedure: development, analysis, interpretation and refinement. During these studies, students will be introduced to relevant, new mathematical skills and techniques.

Assumed Knowledge: Some familiarity with elementary mathematics and with the grammar of the English language is assumed. Experience in primary school teaching is desirable.

MATH6901 Mathematics as a Second Language (Part 1)

Units: 10
Locations: Callaghan

This course aims to provide a solid conceptual understanding of the operations of arithmetic, as well as the interrelationships among arithmetic, algebra, and geometry, all in the context of the structure of K-6 mathematics. It is intended for primary school teachers. The major mode of delivery will be interactive lectures and workshops.

Assumed Knowledge: Some familiarity with elementary mathematics and with the grammar of the English language is assumed. Experience in primary school teaching is desirable.

MATH6902 Mathematics as a Second Language (Part 2)

Units: 10
Locations: Callaghan

This course aims to extend the solid conceptual understanding of the operations of arithmetic in the context of the structure of K-6 mathematics initiated in MATH6901. Particular attention is paid to the different aspects and applications of division. The course includes an introduction to graphing (which is elaborated on in MATH6903) and the concept of a limit. It is intended for primary school teachers. The major mode of delivery will be interactive lectures and workshops.

Assumed Knowledge: MATH6901

MATH6903 Functions and Graphs for Primary Teachers

Units: 10
Locations: Callaghan

This course builds on MATH6901 and 6902. It aims to provide a deep conceptual understanding of the concept of a function, to enable students to use functions in problem-solving exercises and to relate the concept of functions to the K-6 mathematics classroom. It is intended for primary school teachers. The major mode of delivery will be interactive lectures and workshops.

Assumed Knowledge: MATH6902

MATH6904 Algebra and Trigonometry for Primary Teachers.

Units: 10
Locations: Callaghan

This course builds on MATH6901, MATH6902 and MATH6903. The aim of this course is to provide students with: a deep conceptual understanding of (and computational capability with) the techniques of algebra, an appreciation of the interplay of algebra and geometry in two dimensions, and an introduction to the ideas of trigonometry. It is intended for primary school teachers. The major mode of delivery will be interactive lectures and workshops.

Assumed Knowledge: MATH6903

MATH6910 Foundations of Modern Mathematics

Units: 20
Locations: Callaghan

Provides students with the opportunity to select topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 credit points of 300 level subjects, subject to the approval of the Head of School.

Assumed Knowledge: approved degree in mathematics or related area

MATH6920 Topics in Modern Mathematics

Units: 20
Locations: Callaghan

Provides students with the opportunity to select topics relevant to their interests and to their proposed area of study in their project. Students must choose 20 credit points of 300/400 level subjects, subject to approval of Head of School.

Assumed Knowledge: MATH6910

MATH6930 Advanced Topics in Mathematics

Units: 20
Locations: Callaghan

Provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study for their project. Students must choose 20 units of material from the list of Honours topics available. The Honours topics are described in the Mathematics Honours Program Booklet which is available from the School of Mathematical and Physical Sciences.

Assumed Knowledge: Approved degree in Mathematics or related area.

MATH6940 Research Developments in Mathematics

Units: 20
Locations: Callaghan

Provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study for their project. Students must choose 20 units of material at an advanced specialist level appropriate to their area. The latter material is to be provided by their project supervision committee, after consultation with the candidate.

Assumed Knowledge: approved degree in mathematics or related area.

MATH6950 Project I

Units: 20
Locations: Callaghan

This course aims to introduce students to the practice of mathematical research. Students will have the opportunity to initiate and pursue a research project under the direction of an academic researcher. They will develop analytical and presentation skills appropriate in mathematical research.

Assumed Knowledge: MATH6930 or MATH6940

MATH6960 Project II

Units: 20
Locations: Callaghan

This unit allows students to complete a research project prepared for in prior or parallel study in MATH6950. Students, under the direction of a member of academic staff, will spend a half-semester (or equivalent part-time) on the project. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. The results will be reported in a written report.

Assumed Knowledge: MATH6950

MECH1040 Introduction to Engineering

Units: 10
Locations: Callaghan

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 a 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
Units: 10
Locations: Callaghan
Central Coast
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
course Engineering Computations II.
Assumed Knowledge: Nil

MECH1220  Computer Aided Engineering
Units: 10
Locations: Callaghan
Central Coast
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. Creating 2D
engineering drawings from solid models. Development of advanced technical
sketching skills to aid communication in engineering design. Exposure to basic
workshop practice techniques and using these skills to undertake a project.
Assumed Knowledge: Nil

MECH1350  Introductory Mechanics
Units: 10
Locations: Callaghan
Central Coast
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.
Assumed Knowledge: Nil

MECH2110  Mechanical Engineering Design 1
Units: 10
Locations: Callaghan
General procedure for solving design problems. Searching for design solutions using a
range of techniques. Engineering drawing techniques. Assembly of machine
components - limits, fits and geometric tolerancing. Introduction to the Australian
Standards in relation to design.
Assumed Knowledge: CIVIL1130 Structural and Environmental Mechanics and
MECH1220 Computer Aided Engineering

MECH2250  Materials Science and Engineering 1
Units: 10
Locations: Callaghan
Provides an integrated foundation for understanding the engineering properties of
materials and how these properties result from basic chemical bonding and structure.
Assumed Knowledge: HSC level knowledge of Physics or Chemistry is assumed.

MECH2350  Dynamics 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Newton's Law of motion; Ordinary differential equations

MECH2420  Engineering Mechanics
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: MATH1120 Mathematics 112 or MATH1020 Mathematics, and
MECH1350 Introductory Mechanics

MECH2450  Engineering Computations 2
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: MECH1080 Engineering Computations 1

MECH2700  Thermofluids
Units: 10
Locations: Callaghan
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 Thermodynam-
is and applications; introduction to Second Law of Thermodynamics.
Assumed Knowledge: Basic Physics and Mathematics

MECH3110  Mechanical Engineering Design 2
Units: 10
Locations: Callaghan
Topics include: welded and bolted connections; design of friction drives, clutches and
brakes; hydrodynamic 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
Units: 10
Locations: Callaghan
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.

MECH3140  Mechatronics Design
Units: 10
Locations: Callaghan
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 the end of the semester.
Assumed Knowledge: MECH2110 Mechanical Engineering Design 1, MECH2420 Engineering Mechanics
ELEC2120 Sensors and Actuators

MECH3200  Introduction to Finite Element Analysis
Units: 10
Locations: Callaghan
Introduces students to the mathematical foundation of the finite element method and to
its use in engineering 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.
Assumed Knowledge: MECH1220 Computer Aided Engineering

MECH3400  Materials Science and Engineering 2
Units: 10
Locations: Callaghan
Extends the competency of students in understanding engineering materials and their
behaviour. The course is focused more on the mechanical behaviour of materials than is
Materials Science & Engineering 1, although the importance of other properties is
never ignored. There are four major elements to the course:
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.
Assumed Knowledge: MECH2250 Materials Science and Engineering 1

MECH3440  Mechanics of Solids
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: Basics of mechanics of solids: stress, strain, axial
loading, torsion, bending, deflection of beams

MECH3500  Vibrations, Acoustics & Condition Monitoring
Units: 10
Locations: Callaghan
Introduces students to analysis and control of vibrations and related topics in noise
and condition monitoring.
Assumed Knowledge: MECH2350 Engineering Dynamics
MECH3700 Transport Phenomena
Units: 10
Locations: Callaghan
Students learn the fundamental principles of transport phenomena and how they can use them to solve engineering problems. The course, which nicely blends physical and mathematical concepts, provides an excellent support to the students for expending/developing the analytical skills built on previous knowledge of mathematics and physics.
Assumed Knowledge: The students are assumed to have completed their basic course in Thermofluids and Ordinary and Partial Differential Equations.

MECH3750 Applied Engineering Thermodynamics
Units: 10
Locations: Callaghan
Applications of I and II Laws of Thermodynamics to several power and refrigeration cycles; properties of non reacting mixtures; psychrometry and applications; combustion. Several laboratory experiments to demonstrate the application of the above.
Assumed Knowledge: MECH2700 Thermofluids

MECH4220 Bulk Materials Handling and Transportation
Units: 10
Locations: Callaghan
Presents the basic concepts related to bulk solids and their relative equipment design, based on the problems from industry. Also, the emphasis is placed on the decision making for designing or selecting suitable, reliable and economical equipment.
Contact hours: 5 hours per week
Assumed Knowledge: There is no prerequisite for this subject

MECH4300 Aerodynamics
Units: 10
Locations: Callaghan
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 Advanced Computer Aided Engineering and Manufacturing
Units: 10
Locations: Callaghan
Further students' knowledge of finite element analysis and advance use of computer aided engineering software including solids and surface modelling and computer aided manufacturing. Students with the theory and practice of Computer Aided Manufacture (CAM). Further, students will also be familiarised with the concept of rapid prototyping and the control of a Numerically Controlled Work Centre.
Assumed Knowledge: MECH2110 Mechanical Engineering Design 1
MECH3520 Finite Element Analysis

MECH4730 Fluid Machines
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 MECH48450.
Assumed Knowledge: 220 credit points completed.

MECH4750 Mechatronics Project/Seminar B
Units: 20
Locations: Callaghan
Provide 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. This course is a continuation of project work to be completed in MECH4740.
Assumed Knowledge: 220 credit points completed.

MECH4830 Engineering Economic Analysis
Units: 10
Locations: Callaghan
The objective of this course is 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 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.
Assumed Knowledge: N/A

MECH4840 Mechanical Engineering Project/Seminar A
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: 220 credit points completed.

MECH4850 Mechanical Engineering Project/Seminar B
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: 220 credit points completed.

MECH4890 COMPUTER SIMULATION AND MODELLING
Units: 10
Locations: Callaghan
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

MECH4990 Project/Directed Reading
Units: 10
Locations: Callaghan
An area of interest will be chosen from a list of topics provided by the Course Coordinator or one of interest to the student for reading and research to enable a deeper understanding of the course.
Assumed Knowledge: N/A

MECH6100 Bulk Solids Handling - Storage & Flow
Units: 10
Locations: Callaghan
Course provides the fundamentals underpinning bulk solids handling operations.
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.

MECH6200 Advanced Computer Aided Engineering
Units: 10
Locations: Callaghan
Furthers students' knowledge and expertise in advanced utilization of computer aided design software packages. Topics covered include: solid and surface modeling of complex mechanical parts; dynamic analysis of mechanical systems; introduction to computer aided manufacturing and advanced aspects of finite element analysis including linear buckling, transient dynamic finite element analysis, introduction to non-linear analysis, and steady state and transient heat transfer.
Assumed Knowledge: Graduate enrolment

MECH6240 Bulk Solids Characterisation & Particulate Mechani
Units: 10
Locations: Callaghan
Course details a range of characterisation procedures used to describe bulk solids behaviour.
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.
MECH6250 Bulk Materials Handling and Transportation  
Units: 10  
Locations: Callaghan  
The basic concepts related to bulk solids and their relative equipment design are presented based on the problems from industry. Also, the emphasis is placed on the decision making for designing or selecting suitable, reliable and economical equipment.  
Assumed Knowledge: N/A  

MECH6270 Belt Conveying  
Units: 10  
Locations: Callaghan  
The course provides a detailed coverage of the design and operation of belt conveyors and associated equipment.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6300 Aerodynamics  
Units: 10  
Locations: Callaghan  
The course taught provides an advanced knowledge 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 MECH2700 Thermofluids, MECH3700 Transport Phenomena and MATH2310 Calculus of Science and Engineering.  

MECH6350 Pneumatic Conveying  
Units: 10  
Locations: Callaghan  
The course provides a detailed coverage of the design and operation of pneumatic conveying systems and associated equipment.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6400 Maintenance Management  
Units: 20  
Locations: Callaghan  
Designed to provide students with an understanding of modern maintenance management practice with specific application to bulk solids handling operations.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6450 Instrumentation & Control Systems for Bulk Solids  
Units: 10  
Locations: Callaghan  
The course provides a detailed coverage of instrumentation and control issues of particular relevance to bulk solids handling operations.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6500 Physical Processing of Bulk Solids  
Units: 10  
Locations: Callaghan  
The course provides an overview of physical processing of bulk solids in terms of both processes and equipment.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6550 Dust and Fume Systems  
Units: 10  
Locations: Callaghan  
The course provides an overview of how dusts are generated and the systems and technology available for the capture and handling of airborne dust.  
Assumed Knowledge: Students expected to have a basic knowledge equivalent to completion of an undergraduate Engineering degree.  

MECH6610 Mechanical Handling Systems  
Units: 10  
Locations: Callaghan  
Designed to provide candidates with an understanding of modern techniques to mechanically handle bulk solids in a variety of representative industrial process operations. The course is based on a sound economic and a technical evaluation of different modes of conveying handling, feeding, loading and unloading bulk solids.  
Assumed Knowledge: This program is aimed at practicing engineers in the bulk solids industry. As such, all students of the program have a practical working knowledge of the course area.  

MECH6620 Freight Pipelines  
Units: 10  
Locations: Callaghan  
Designed to provide students with an understanding of modern technology applied to the transportation over medium to long distances, of bulk solids in pipeline systems. Both hydraulic and capsule type conveying are considered. Students will be provided with a basis for making economic assessments of freight pipelines as distinct from other modes of transport.  
Assumed Knowledge: This program is aimed at practicing engineers in the bulk solids industry. As such, all students of the program have a practical working knowledge of the course area.  

MECH6720 Project  
Units: 20  
Locations: Callaghan  
Designed to enable the candidate to conduct research into a problem of relevance to industry and present the findings in a format which can be easily understood by industry, Government and academic audiences.  
Assumed Knowledge: This program is aimed at practicing engineers in the bulk solids industry. As such, all students of the program have a practical working knowledge of the course area.  

MECH6830 Engineering Economic Analysis  
Units: 10  
Locations: Callaghan  
Provides advanced concepts of engineering economic analysis and its role in engineering decision making. It introduces important elements of most economic analyses: depreciation and income taxes. The course covers such topics as before- and after-tax analysis, replacement analysis, inflation, and deflation. It also includes estimation of future events and the issues related to economic analysis in project management.  
Assumed Knowledge: Graduate enrolment  

MECH6890 Computer Simulation and Modelling  
Units: 10  
Locations: Callaghan  
Provides advanced topics in industrial systems modelling, simulation, management and integration presented as a process for problem resolution, policy crafting and decision making.  
Assumed Knowledge: Postgraduate enrolment  

MECH6920 Directed Reading/Project  
Units: 10  
Locations: Callaghan  
An area of interest will be chosen from a list of topics provided by the Course Coordinator or one of interest to the student for reading and research to enable a deeper understanding of the course.  
Assumed Knowledge: NA  

MECH6940 Industrial Systems Project/Seminar A  
Units: 20  
Locations: Callaghan  
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s employment and co-supervised by a professional engineer on site. Coursework components will cover areas of problem identification, research skills, communication skills and strategies for applied research. Progress will be reported at seminars.  
Assumed Knowledge: Graduate enrolment  

MECH6950 Industrial Systems Project/Seminar B  
Units: 20  
Locations: Callaghan  
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s employment and co-supervised by a professional engineer on site. Coursework components will cover areas of problem identification, research skills, communication skills and strategies for applied research. Progress will be reported at seminars.  
Assumed Knowledge: Graduate enrolment  

MECH6990 Industrial Systems Project/Seminar  
Units: 40  
Locations: Callaghan  
Comprises the major project in this program. It is expected that most projects will be of an applied nature in an area relevant to the candidate’s employment and co-supervised by a professional engineer on site. Coursework components will cover areas of problem identification, research skills, communication skills and strategies for applied research. Progress will be reported at seminars.  
Assumed Knowledge: Graduate enrolment
MED1010A Medicine 1 (Part A)
Units: 40
Locations: Callaghan
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
Assumed Knowledge: See selection and admission criteria.

MED2010B Medicine I (Part B)
Units: 40
Locations: Callaghan
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. 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
Assumed Knowledge: MED1010A

MED2100B Medicine II (Part B)
Units: 40
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
Medicine II is divided into 2 semesters.
Assumed Knowledge: MED2010B

MED2140A Pathology for MRT (Part A)
Units: 40
Locations: Callaghan
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)
Units: 40
Locations: Callaghan
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)
Units: 40
Locations: Callaghan
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: MED2101B

MED3210B Medicine III (Part B)
Units: 40
Locations: Callaghan
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: MED2101B

MED4010A Medicine IV (Part A)
Units: 40
Locations: Callaghan
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: MED3210B

MED4010B Medicine IV (Part B)
Units: 40
Locations: Callaghan
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: MED4010A

MED4110A Thesis (Part A)
Units: 40
Locations: Callaghan
This course 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 course 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. Projects undertaken may include a placement or student research activity within University laboratories or within a clinical setting. Projects may require a wide range of research related activities including laboratory work, database research and analysis, and interviews, questionnaires or surveys. Projects cannot involve the application of clinical skills by the student - where this is required it is customary to involve a clinician as a Supervisor.
Assumed Knowledge: NI

MED4110B Thesis (Part B)
Units: 40
Locations: Callaghan
This course is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
The purpose of this course 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. Projects undertaken may include a placement or student research activity within University laboratories or within a clinical setting. Projects may require a wide range of research related activities including laboratory work, database research and analysis, and interviews, questionnaires or surveys. Projects cannot involve the application of clinical skills by the student - where this is required it is customary to involve a clinician as a Supervisor.
Assumed Knowledge: NI

MED4410A Health Initiative
Units: 20
Locations: Callaghan
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 comprises both a theoretical and practical experience in community health. Specific objectives are negotiated between student and supervisor. As well as a literature search and critical appraisal of a health topic relevant to the proposed community experience, the student spends a period of time attached to a community, exploring relevant health and social issues in detail. It is important to note that the attachment is likely to require a period of placement in an approved community health setting. Generally the placement would be within Australia, but it may be possible to gain approval for an overseas placement if it is deemed beneficial and appropriate for meeting student learning objectives. Activities on placement may include a wide range related to community health research, such as observation, administration, interviews, questionnaire surveys etc but clinical skills are specifically excluded. An application for human ethics approval may be required for some projects.
Assumed Knowledge: NI

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MEDI4410B Health Initiative
Units: 20
Locations: Callaghan
This course is Part B of a multi-term sequence. Part A must be completed before undertaking Part B.
This course comprises both a theoretical and practical experience in community health. Specific objectives are negotiated between student and supervisor. As well as a literature search and critical appraisal of a health topic relevant to the proposed community experience, the student spends a period of time attached to a community, exploring relevant health and social issues in detail. It is important to note that the attachment is likely to require a period of placement in an approved community health setting. Generally the placement would be within Australia, but it may be possible to gain approval for an overseas placement if it is deemed beneficial and appropriate for meeting student learning objectives. Activities on placement may include a wide range related to community health research, such as observation, administration, interviews, questionnaire surveys etc but clinical skills are specifically excluded. An application for human ethics approval may be required for some projects.
Assumed Knowledge: Nil

MEDI5210A Medicine V (Part A)
Units: 40
Locations: Callaghan
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: MEDI4010B

MEDI5210B Medicine V (Part B)
Units: 40
Locations: Callaghan
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: MEDI5210A

MEDI5240A Medicine V C (Part A)
Units: 20
Locations: Callaghan
Student must gain Faculty permission to enrol part-time in Year 5 of the BMed program. Permission will only be granted in exceptional circumstances. Students who enrol part-time will be required to enrol in 20 units per semester over 2 years.
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: MEDI4010B

MEDI5240B Medicine V C Part B
Units: 20
Locations: Callaghan
Student must gain Faculty permission to enrol part-time in Year 5 of the BMed program. Permission will only be granted in exceptional circumstances. Students who enrol part-time will be required to enrol in 20 units per semester over 2 years.
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: MEDI5240A

MEDI6010 Neurobiology of Pain
Units: 10
Locations: Callaghan
A course based on videotapes of lectures, written material and seminal publications from the world literature, designed to inform candidates about contemporary knowledge of the anatomical and physiological basis of nociception, visceral and eesomatic pain, and neuropathic pain.
Assumed Knowledge: Undergraduate course in biology, biosciences/physiology that covered structure and function of nerves.

MEDI6020 Critical Reasoning
Units: 10
Locations: Callaghan
This subject is designed to invest candidates with the intellectual and arithmetic skills to understand and calculate various statistics pertinent to the evaluation of the reliability, validity and efficacy techniques relevant to the diagnosis and treatment of pain. Furthermore, candidates will be instructed as to how to evaluate (and compose) literature on pain treatment. This subject does not preclude enrollment in other subjects.
Assumed Knowledge: Undergraduate competence in arithmetic and algebra.

MEDI6030 Pain Assessment I - Medical
Units: 10
Locations: Callaghan
This subject is designed to provide candidates with a systematic approach to the clinical assessment of pain, in terms of its biomedical dimensions, using techniques that have been critically evaluated for reliability and validity. This subject does not preclude enrollment in other subjects.
Assumed Knowledge: Previous clinical experience involving interaction with patients and familiarity with medical investigations. Undergraduate experience in biology sufficient to understand the principles of medical investigations.

MEDI6040 Pain Assessment I - Psychosocial
Units: 10
Locations: Callaghan
A course based on studies of selected prescribed reading and evaluations of the literature, designed to enable candidates to formulate an assessment of the psychological, social and vocational problems faced by a patient in pain.
Assumed Knowledge: Previous clinical experience involving interaction with patients.

MEDI6050 Pain Management
Units: 10
Locations: Callaghan
A course based on videotapes and prescribed reading, involving a critical appraisal of the literature, designed to establish the efficacy and indications of possible pharmacological, physical, electrical, behavioural and surgical management of pain.
Assumed Knowledge: Previous clinical experience involving interaction with patients and undergraduate knowledge of the principles of pharmacology and medical treatment.

MEDI6060 Pain Entities I - Musculoskeletal
Units: 10
Locations: Callaghan
A course based on evolution of prescribed reading, designed to establish the most reliable, valid and efficacious means of assessing and treating patients with musculoskeletal pain problems.
Assumed Knowledge: Undergraduate knowledge of the anatomy and physiology of the musculoskeletal system.

MEDI6070 Pain Entities II - Headache and Neurological
Units: 10
Locations: Callaghan
A course based on an evaluation of prescribed reading, designed to establish the most reliable, valid, and efficacious means of assessing and treating patients with headache and neurological pain problems.
Assumed Knowledge: Undergraduate knowledge of the anatomy and physiology of the nervous system.

MEDI6080 Pain in Special Contexts
Units: 10
Locations: Callaghan
A course based on prescribed reading designed to assist candidates identify, recognise the special needs of patients in particular circumstances such as children with pain, the elderly in pain, patients with cancer, patients in primary care and patients with a compensation claim.
Assumed Knowledge: Clinical experience in interacting with patients.

MEDI6090 Introduction to Diabetes Care
Units: 20
Locations: Distance Education - Callaghan
MEDI6090 will provide medical practitioners with a broad introduction to diabetes prevention, early detection, diagnosis and management as relevant to primary health care practice in the target country. Candidates will be introduced to basic concepts of clinical epidemiology, evidence-based decision-making and to principles of quality assurance in health care.
Assumed Knowledge: MB BS with a minimum of 3 years clinical experience.

MEDI6100 Diabetes Mellitus: Diagnosis & Management
Units: 10
Locations: Distance Education - Callaghan
MEDI6100 is a core course. It consolidates and extends learning about critical issues in diabetes prevention, diagnosis and management, broadens understanding of community-based aspects of diabetes and further develops understanding of the relevance of literature review and evidence-based medicine. It will assist candidates to identify key practice issues appropriate for the Practice Audit and provide further understanding and knowledge to complement the Clinical Attachment.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course, Introduction to Diabetes Care, will be assumed. Participants must be medical practitioners working in area of diabetes care.
Experience working in an alcohol or other drug setting is advantageous.

Assumed Knowledge: Students must work in a setting (either voluntary or paid) which allows approximately 7 days of clinical work with clients with alcohol or other drug problems. Supervision will be required. You will also have completed:

PSYMS02 Clinical Approaches to Drug/Alcohol Problems I
PSYM 504 Clinical Assessment of Drug/Alcohol Use

MED6190 Psychiatric Epidemiology
Units: 10
Locations: Callaghan
Provides specialist knowledge about the principles and methods of psychiatric epidemiology and the related discipline of social psychiatry. The subject consists of 11 modules.
Contact Hours: TBA
Assumed Knowledge: N/A

MED6200 Drug/Alcohol Intervention - Supervised Reading
Units: 10
Locations: Callaghan
Aims to provide Masters students with an opportunity to develop a course of study in a drug/alcohol intervention area of their own choosing. The content of the Supervised Reading subject will be devised in consultation between the student and a member of staff.
Students are expected to spend approximately ten hours per week on average (total 140 hours) on this subject during the 14 weeks of semester. Weekly email contact with the Lecturer is expected.
Assumed Knowledge: N/A

MED6210 Drug/Alcohol Problems - Problem based learning
Units: 10
Locations: Callaghan
Provides specialist knowledge about the principles and methods of psychiatric epidemiology and the related discipline of social psychiatry. The subject consists of 11 modules.
Contact Hours: TBA
Assumed Knowledge: N/A

MED6220 Genetics in Diabetes
Units: 10
Locations: Callaghan
This is a distance-learning course for medical practitioners providing clinical services to diabetic patients undergoing surgery. This practice based course aims to provide an in depth understanding of the nature of perioperative stress and its effects on diabetes control. It will focus on the crucial importance of preoperative assessment, its relevance to the operative state and the crucial elements that need correction before surgery is undertaken. It will assist candidates to recognise the limitations of preoperative management and enhance their skills in achieving intraoperative and immediate postoperative control. The management topics will encompass the postoperative periods including post discharge.
Assumed Knowledge: Knowledge equivalent to that gained in a basic degree in science or applied science will be assumed. Participants must be health care professionals working in the area of diabetes care.

MED6230 Perioperative Diabetes Management
Units: 10
Locations: Callaghan
This is a distance-learning course for medical practitioners providing clinical services to diabetic patients undergoing surgery. This practice based course aims to provide an in depth understanding of the nature of perioperative stress and its effects on diabetes control. It will focus on the crucial importance of preoperative assessment, its relevance to the operative state and the crucial elements that need correction before surgery is undertaken. It will assist candidates to recognise the limitations of preoperative management and enhance their skills in achieving intraoperative and immediate postoperative control. The management topics will encompass the postoperative periods including post discharge.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course, Introduction to Diabetes Care, will be assumed.
Participants must be medical practitioners working in area of diabetes care.

MED6110 Diabetes Care: Practice Audit
Units: 10
Locations: Callaghan
MEDI6110 is a core course. It will provide candidates with direct experience in a key aspect of quality assurance in clinical practice, practice audit. It will further develop critical appraisal skills, assist candidates to identify areas in which patient outcomes can be improved, and guide further learning to issues which are of direct relevance to their own practice. It will also assist candidates to identify issues for follow-up in the clinical attachment.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course, Introduction to Diabetes Care, will be assumed.
Participants must be medical practitioners working in area of diabetes care.

MED6120 Diabetes Care: Clinical Attachment
Units: 10
Locations: Callaghan
MEDI6120 is a core course. Candidates must have made satisfactory progress with either MEDI6110 Clinical Approaches To Drug Alcohol Problems I or MEDI6160 Clinical Approaches To Drug Alcohol Problems II. MEDI6120 provides a minimum of fourteen days of advanced and intensive training at an accredited, regional Centre of Excellence. This is considered to be an essential element of the course structure for primary care practitioners planning to establish themselves as Diabetologists. MEDI6120 will also provide opportunities for resolving any outstanding learning issues arising from clinical practice and for obtaining expert advice in relation to the practice audit.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course, Introduction to Diabetes Care, will be assumed.
Participants must be medical practitioners working in area of diabetes care.

MED6130 Basis of Drug/Alcohol Problems
Units: 10
Locations: City Precinct
Provides an overview of alcohol and other drug use and drug related problems viewed from a range of perspectives including psychology, sociology, history, pharmacology, medicine and epidemiology. Drug policy, prevention and treatment are also introduced.
Emphasises skills for critically analysing sources of information about drugs.
Assumed Knowledge: There is no formal prerequisite for this subject.

MED6140 Clinical Approaches To Drug/Alcohol Problems I
Units: 10
Locations: Callaghan
Develops an understanding of the theoretical concepts and basic skills underlying effective interventions. Subtopics cover: change during the life cycle; change without expert help; stages of change; motivational interviewing; interactive education; effective interventions. Subtopics cover: change during the life cycle; change without expert help; stages of change; motivational interviewing; interactive education; effective interventions.

MED6150 ASSESSMENT FOR PLANNING IN THE DRUG/ALCOHOL FIELD
Units: 10
Locations: Callaghan
This subject is designed to provide students with the understanding and ability to apply different methods of establishing the need for particular forms of drug and alcohol harm reduction activity, and to understand the dimensions of, and reasons for social inequalities in drug and alcohol problems.
Assumed Knowledge: N/A

MED6160 Clinical Assessment Of Drug/Alcohol Use
Units: 10
Locations: Callaghan
Develops knowledge and skills in interviewing clients about alcohol and other drug use; selection and use of assessment instruments; and an understanding of medical assessment and physiological measures.
Contact Hours: TBA
Assumed Knowledge: Students must work in a setting (either voluntary or paid) which allows approximately 7 days of clinical work with clients with alcohol or other drug problems. Supervision will be required.

MED6170 Clinical Approaches To Drug Alcohol Problems II
Units: 10
Locations: Callaghan
Develops a knowledge of and skills in best practice as recommended by the Quality Assurance Project, National Drug and Alcohol Research Centre. Subtopics include: brief interventions; approaches to opioid dependence; management of alcohol problems; approaches to smoking cessation.
Contact Hours: TBA
Assumed Knowledge: Students must work in a setting (either voluntary or paid) which allows approximately 7 days of clinical work with clients with alcohol or other drug problems. Supervision will be required.

MED6180 Clinical Approaches To Drug Alcohol Problems III
Units: 10
Locations: Callaghan
Develops knowledge and skills in counselling special client groups (e.g. dual diagnosis, adolescents, people from different cultures.
Contact Hours: TBA
Assumed Knowledge: Students must work in a setting (either voluntary or paid) which allows approximately 7 days of clinical work with clients with alcohol or other drug problems. Supervision will be required. You will also have completed:

PSYMS02 Clinical Approaches to Drug/Alcohol Problems I
PSYM 504 Clinical Assessment of Drug/Alcohol Use
MEDI6240 Diabetes Care: Behavioural Management & Adherence
Units: 10
Locations: Distance Education - Callaghan
This is a distance-learning subject for health care professionals providing clinical services to individuals diagnosed with diabetes mellitus. The course provides participants with an opportunity to extend their skills and knowledge on current approaches to community-based management of diabetes and the enhancement of efficacy of self-care for people with diabetes. This practice-based course will include a review of evidence, defining current approaches to patient education and behavioural modification, and will require candidates to identify the limitations of the different approaches to patients in the context of their own practice setting.
Assumed Knowledge: None.

MEDI6250 Microvascular Disease in Diabetes
Units: 10
Locations: Distance Education - Callaghan
MEDI6250 is a distance-learning subject for medical practitioners providing clinical services to individuals diagnosed with diabetes mellitus. This course involves a review of diseases of the coronary, cerebral and peripheral vessels and their implications with respect to morbidity and mortality in patients with diabetes. It also deals with the economic costs of macrovascular disease in diabetes including the difficulties and expense of managing the care of such patients on a chronic basis. Preventative strategies will be discussed in relation to their impact on the individual and community and will also include a consideration of costs.
Assumed Knowledge: Knowledge equivalent to that gained in an undergraduate or graduate health science degree will be assumed. Participants must be health care professionals working in the area of diabetes care.

MEDI6260 SEXUAL DYSFUNCTION IN DIABETES
Units: 10
Locations: Distance Education - Callaghan
This is a distance-learning course designed for medical practitioners involved in the care of diabetic people experiencing sexual difficulties as a consequence of their disease. It will provide candidates with an understanding of the underlying pathophysiology of sexual dysfunction in diabetic men and women and will examine the various diagnostic and management approaches that are available. The psychological distress and anxiety experienced by patients with these conditions will also be discussed and a range of counselling strategies explored.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course Introduction to Diabetes Care, will be assumed. Participants must be medical practitioners working in area of diabetes care.

MEDI6270 CLINICAL DECISION MAKING IN DIABETES
Units: 10
Locations: Distance Education - Callaghan
This is a distance-learning course for practicing medical practitioners involved in the care of people with diabetes mellitus. It introduces candidates to the practical application of evidence-based medicine and clinical epidemiology methods in improving the investigation, diagnosis and management of diabetes. It will describe the principles of evidence-based medicine and how to critically evaluate the medical literature, examine issues related to assessing normality, sensitivity, specificity and predictive values with respect to diagnostic tests for diabetes and examine the principles of screening and decision analysis for diabetes in clinical practice.
Assumed Knowledge: Knowledge equivalent to that gained in an MBBS degree and from the course, Introduction to Diabetes Care, will be assumed. Participants must be medical practitioners working in area of diabetes care.

MEDI6280 Diabetes in Adolescence
Units: 10
Locations: Novo Nordisk, India
The course is designed to give physicians a comprehensive understanding of the impact of pubescence on diabetes by focusing on the biological, psychological and social aspects of change. A primary consideration of this course is the development of empathetic management strategies for adolescent diabetes. A series of paper-based cases distributed at staggered intervals during the semester will be used to encourage candidates to review and critically analyse resources available in this field. Candidates will also be required to develop self-directed learning skills in order to identify and address issues arising in their own practice. Practice tasks to be completed during the semester within the candidate's own setting will encourage the critical appraisal and application of knowledge and skills gained from the course to their own clinical context. Reference materials integrating contemporary theory and research will be provided to each candidate.
Assumed Knowledge: Knowledge gained from "Introduction to Diabetes Care, Practice Audit" and "Clinical Attachment" courses, compulsory courses within the Grad Dip in Diabetes Care.

MEDI6290 Psychological Solutions for Health/Welfare Profess
Units: 10
Locations: Distance Education - Callaghan
This is a distance learning postgraduate elective course, containing three CD-ROM delivered short-course modules. The course focuses on personality-related mental health problems that are frequently encountered in health and welfare settings. Students select three modules from the following four: Self-injury; The Difficult Personality (Borderline Personality Disorder); The Aggressive Person; and Suspicions Beyond Reason (Suspicion and Paranoia). Students develop a detailed understanding of the development and manifestation of these problems, and acquire skills for effective professional engagement with people presenting with clinical manifestations of personality problems. The course is highly structured, and employs a problem-based approach to learning. Students work through detailed clinical scenarios (working problems), aided by realistic video dramatisations. Assessment includes written short-answer responses to the working problems, other written exercises, and an assignment at the end of each module.
Assumed Knowledge: Nil.

MENT6010 Entrepreneurship: Mngmnt Cohesion and Dissonance
Units: 10
Locations: Central Coast
Undertakes public and private sector case studies of current examples of successful entrepreneurial behaviour and autopsies of business failures, with a view to developing a model of managerial behaviour which explains both success and failure.
Assumed Knowledge: None.

MEMENT6020 Contemp National & International Enterprise Issues
Units: 10
Locations: Central Coast
Explores the complex multidisciplinary nature of national and international management issues, including current public issues and debates.
Assumed Knowledge: None.

MEMENT6030 Self Management and Change
Units: 10
Locations: Central Coast
Develops student's personal capacity for adaptation and contribution to the rapidly changing work environment. Aims to identify and develop forces of change within individuals, to foster action-based reflection and critical thinking, and to enhance personal effectiveness.
Assumed Knowledge: None.

MEMENT6050 Organisational Dynamics and Diversity
Units: 10
Locations: Central Coast
Develops students' capacity for analysis of social and demographic changes impacting on organisations in the global environment today. Aims to enhance students' understanding of, and responsiveness to, current debates on organisational and management dynamics, with particular emphasis on the management of an increasingly diverse workforce.
Assumed Knowledge: None.

MEMENT6060 Managing in an Electronic Work Environment
Units: 10
Locations: Central Coast
Develops students' capacity for analysis of social and demographic changes impacting on organisations in the global environment today. Aims to enhance students' understanding of, and responsiveness to, current debates on organisational and management dynamics, with particular emphasis on the management of an increasingly diverse workforce.
Assumed Knowledge: None.

MEMENT6080 Innovation and Enterprise
Units: 10
Locations: Central Coast
Extends the students' knowledge at an advanced level of the critical significance of innovation for enterprises and develops their capability to facilitate innovation in organisations confronted by turbulent market environments and structural industry transformation.
Assumed Knowledge: None.

MEMENT6090 Corporate and Industry Strategies
Units: 10
Locations: Central Coast
Assists students to acquire knowledge and skills at an advanced level in the development and implementation of corporate and industry strategies, with particular reference to business models, business strategies, public policy, business ethics and social responsibility.
Assumed Knowledge: None.
MENT6200 Financial Dimensions Of Management
Units: 10
Locations: Central Coast
Addresses financial calculation in general and accounting, in particular, as forms of managerial instrumentation providing data which are indicative of salient financial characteristics of enterprises. Develops an appreciation of the need for financial planning, accountability and assessing mechanisms, and an understanding of the financial dimensions of management through case-study reference to extant practice. 
Assumed Knowledge: None.

MKTG1000 Marketing Principles
Units: 10
Locations: Calaghan
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: MKTG100

MKTG2000 Consumer Behaviour
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: MKTG2000

MKTG2010 Marketing Research
Units: 10
Locations: Calaghan
Examines the role of research techniques in solving business problems and identifying market opportunities. Students apply marketing concepts and theory to marketing 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: MKTG2000

MKTG2020 Advertising & Promotion Management
Units: 10
Locations: Calaghan
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
Units: 10
Locations: Calaghan
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
Units: 10
Locations: Calaghan
Examines the 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 emphasis will be on understanding the essential aspects of each topic. 
Assumed Knowledge: NA

MKTG2410 Professional Practice In Design
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: An understanding of Marketing Principles

MKTG2530 ELECTRONIC MARKETING
Units: 10
Locations: Calaghan
Examines emerging interactive technologies and their impact on, and implications for: marketing strategy, business strategy, consumer behaviour, advertising and media planning. 
Assumed Knowledge: Students are assumed to have successfully completed Principles of Marketing (MKTG100).

MKTG3000 Strategic Marketing Management
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: MKTG200 - Consumer Behaviour

MKTG3010A Project in Marketing (Part A)
Units: 10
Locations: Calaghan
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 - Marketing Research

MKTG3010B Project in Marketing (Part B)
Units: 10
Locations: Calaghan
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 - Marketing Research

MKTG3030 Business to Business Marketing
Units: 10
Locations: Calaghan
Aims to develop an understanding of business markets, the business marketing environment and the application of marketing theory to business-to-business markets. 
Assumed Knowledge: MKTG1000 - Marketing Principles

MKTG3040 Services Marketing
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: MKTG200 - Consumer Behaviour

MKTG3050 Retail Management
Units: 10
Locations: Calaghan
Looks at all aspects of analysing the overall distribution system, the retail environment, and developing and implementing retail strategies, through an indepth analysis of: location decisions, store design, merchandising processes, pricing, promotion, customer service and retail selling. 
Assumed Knowledge: MKTG200 - Consumer Behaviour

MKTG3060 International Marketing
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: MKTG200 - Consumer Behaviour

MKTG3410 Entrepreneurship
Units: 10
Locations: Calaghan
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. 
Assumed Knowledge: MKTG100 - Marketing Principles

MKTG2526 Business Venturing
MKTG3430 Enterprise Development
Units: 10
Locations: Callaghan
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

MKTG4400 Marketing and Enterprise IVA
Units: 10
Locations: Callaghan
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a marketing research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.
Assumed Knowledge: Approval Head of School

MKTG4410 Marketing and Enterprise IVB
Units: 10
Locations: Callaghan
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a marketing research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.
Assumed Knowledge: Approval Head of School

MKTG4412 Marketing and Enterprise IVC
Units: 10
Locations: Callaghan
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a marketing research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.
Assumed Knowledge: Approval Head of School

MKTG4130 Marketing and Enterprise IVD
Units: 10
Locations: Callaghan
Exposes students to empirical, theoretical and research concepts and methods which are necessary for them to undertake the substantial research involved in a marketing research thesis, and explores practical, theoretical and methodological issues in marketing and enterprise.
Assumed Knowledge: Approval Head of School

MKTG44150 Thesis in Marketing and Enterprise I
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: Admission to the Honours program

MKTG44160 Thesis in Marketing and Enterprise II
Units: 20
Locations: Callaghan
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

MNGT3430 Project in Marketing
Units: 10
Locations: Callaghan
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.
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.
Contact hours: 2 hours per week

MNGT3420 Project in Enterprise Management
Units: 10
Locations: Callaghan
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.
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.

MNGT4110 Management IVA
Units: 10
Locations: Callaghan
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

MNGT4111 Management IVB
Units: 10
Locations: Callaghan
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

MNGT4120 Management IVC
Units: 10
Locations: Callaghan
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

MNGT4130 Management IVD
Units: 10
Locations: Callaghan
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

MNGT4150 Thesis in Management - I
Units: 20
Locations: Callaghan
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.
Assumed Knowledge: Admission to the Honours program

MNGT4155 Strategic Management
Units: 10
Locations: Callaghan
Develops an understanding of the strategies, resources and management processes of such enterprises are examined, focusing on problem areas identified in both academic and practitioner literature.
Assumed Knowledge: ECON2470
MRSC1000 MRS Professional Methods IA

Units: 10  
Locations: Callaghan  
Contact hours: By arrangement  
Assumed Knowledge: Admission to the Honours program  

MRSC1010A MRT Physics, Radiation Biol & Protection (Part A)  

Units: 5  
Locations: Callaghan  
Contact hours: As required  
Assumed Knowledge: Nil

MRSC1010B MRT Physics, Radiation Biol & Protection (Part B)  

Units: 10  
Locations: Callaghan  
Contact hours: As required  
Assumed Knowledge: Nil

MRSC1020A MRT Instrumentation (Part A)  

Units: 5  
Locations: Callaghan  
Contact hours: As required  
Assumed Knowledge: Nil

MRSC1020B MRT Instrumentation (Part B)  

Units: 5  
Locations: Callaghan  
Contact hours: As required  
Assumed Knowledge: Nil

MRSC1040A Medical Radiation Techniques (Part A)  

Units: 10  
Locations: Callaghan  
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRSC1040B Medical Radiation Techniques (Part B)  

Units: 10  
Locations: Callaghan  
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.

MRSC1050 MRS Professional Methods IB  

Units: 10  
Locations: Callaghan  
Contact hours: By arrangement  
Assumed Knowledge: MRSC1000

MRSC1400 MRS Clinical Education IA  

Units: 10  
Locations: Callaghan  
Assumed Knowledge: Nil

MRSC1450 MRS Clinical Education IB  

Units: 10  
Locations: Callaghan  
Assumed Knowledge: Nil

MNGT4160 Thesis in Management - II  

Units: 20  
Locations: Callaghan  
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  

MRSC101A Medical Radiation Techniques (Part A)  

Units: 10  
Locations: Callaghan  
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRSC104A 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 lifelong learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.

Assumed Knowledge: nil

MRSC102A MRT Instrumentation (Part A)  

Units: 5  
Locations: Callaghan  
This subject is Part A 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: As required  
Assumed Knowledge: Nil

MRSC103A MRT Physics, Radiation Biol & Protection (Part A)  

Units: 10  
Locations: Callaghan  
This subject is Part A 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: As required  
Assumed Knowledge: NIL

MRSC104A MRT Physics, Radiation Biol & Protection (Part B)  

Units: 10  
Locations: Callaghan  
This subject is Part B of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.

MRSC104A 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 lifelong learning skills in critical appraisal, self-learning, communication (oral and written), and evidenced based practice.

Assumed Knowledge: nil

MRSC105A MRS Professional Methods IB  

Units: 10  
Locations: Callaghan  
Assumed Knowledge: MRSC1000

MRSC140A MRS Clinical Education IA  

Units: 10  
Locations: Callaghan  
Assumed Knowledge: Nil

MRSC145A MRS Clinical Education IB  

Units: 10  
Locations: Callaghan  
Assumed Knowledge: Nil

This course 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 communication, ethics and health law, and patient care, and also in profession specific blocks associated with 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.  

Assumed Knowledge: Nil

This course 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 ethics and health law, Aboriginal Health Studies 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 2.  

Assumed Knowledge: MRSC1400 - MRS Clinical Education IA

MRSC1500 MRS Physics & Radiation Protection IA  

Units: 10  
Locations: Callaghan  
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.
MRSC1550 MRS Physics & Radiation Protection IB
Units: 10
Locations: Callaghan
This course 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: MRSC1550

MRSC2010A Diagnostic Instrument (Part A)
Units: 5
Locations: Callaghan
This subject is Part A of a multi-term sequence. Part A 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, Computed Tomography (CT), and Magnetic Resonance Imaging (MRI).
Assumed Knowledge: MRTC101, MRTC102

MRSC2010B Diagnostic Instrument (Part B)
Units: 5
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part B must be successfully completed before undertaking Part B.
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, Computed Tomography (CT), and Magnetic Resonance Imaging (MRI).
Assumed Knowledge: MRTC101, MRTC102

MRSC2030A Diagnostic Radiography Techniques I (Part A)
Units: 10
Locations: Callaghan
This subject is Part A of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
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

MRSC2030B Diagnostic Radiography Techniques I (Part B)
Units: 10
Locations: Callaghan
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

MRSC2050A Clinical Studies II (Part A)
Units: 10
Locations: Callaghan
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 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. Clinical placement is for six weeks in Semester 1 and for four weeks in Semester 2.
Assumed Knowledge: Clinical Applications I

MRSC2050B Clinical Studies II (Part B)
Units: 5
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part A must be successfully completed before undertaking Part B.
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. 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. Clinical placement is for six weeks in Semester 1 and for four weeks in Semester 2.
Assumed Knowledge: Clinical Applications I

MRSC2070A Radiation Therapy Instrumentation (Part A)
Units: 5
Locations: Callaghan
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 radiotherapy. 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

MRSC2070B Radiation Therapy Instrumentation (Part B)
Units: 5
Locations: Callaghan
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 radiotherapy. 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

MRSC2090 Nuc Med Instrumentation I
Units: 5
Locations: Callaghan
This year 2 subject builds on the introduction to medical radiation science physics & instrumentation developed 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.
Assumed Knowledge: MRTC101

MRSC2100 Diagnostic Radiography Methods IIA
Units: 10
Locations: Callaghan
The two key components of the course 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: MRSC1050 MRS Professional Methods IB

MRSC2110A Nuclear Medicine Techniques I (Part A)
Units: 10
Locations: Callaghan
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. 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.
Contact hours: 4 hours per week
Assumed Knowledge: MRTC104 Medical Radiation Techniques I
MRSC2110B Nuclear Medicine Techniques I (Part B)
Units: 5
Locations: Callaghan
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. 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.
Contact hours: 4 hours per week
Assumed Knowledge: MRTC104 Medical Radiation Techniques I

MRSC2130 Oncological Principles I
Units: 5
Locations: Callaghan
MRT213 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.
Assumed Knowledge: Human Anatomy and Physiology I

MRSC2140A Techniques in Radiation Therapy I (Part A)
Units: 5
Locations: Callaghan
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.
Contact hours: 6 hours per week
Assumed Knowledge: Medical Radiation Techniques I

MRSC2140B Techniques in Radiation Therapy I (Part B)
Units: 10
Locations: Callaghan
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.
Contact hours: 6 hours per week
Assumed Knowledge: Medical Radiation Techniques I

MRSC2250 Radiation Therapy Methods IIB
Units: 10
Locations: Callaghan
The three key components of the course which are developed are specific radiation therapy profession learning and outcomes, studies in oncology, 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. Generic learning develops life long learning skills in critical appraisal, self-learning, communication (oral and written), evidenced based practice and research skills.
Assumed Knowledge: MRSC2200 Radiation Therapy Methods IIA

MRSC2400 MRS Clinical Education IIA
Units: 10
Locations: Callaghan
This course 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 course also includes the study of health psychology.
Assumed Knowledge: MRSC1450 Clinical Applications IIB

MRSC2450 MRS Clinical Education IIB
Units: 10
Locations: Callaghan
This course 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 course also includes the study of health psychology.
Assumed Knowledge: MRS2200 Clinical Applications IIB

MRSC2500 MRS Physics & Instrumentation IIA
Units: 10
Locations: Callaghan
This course discusses the physics and the principles of operation of equipment used in Medical Radiation Science. The course 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 Computed Tomography (CT).
Diagnostic Radiography topics include Fluoroscopy, Mammography, Interventional Radiography and Magnetic Resonance Imaging (MRI).
Nuclear Medicine topics include radioactive decay and detectors, including Gamma cameras.
Radiation Therapy topics include external beam radiotherapy, brachytherapy, computerised planning, and dosimetry.
Assumed Knowledge: MRSC1550 MRS Physics & Radiation Protection IIB

MRSC2550 MRS Physics & Instrumentation IIB
Units: 10
Locations: Callaghan
This course discusses the physics and the principles of operation of equipment used in Medical Radiation Science. The course is divided into specific topics for Diagnostic Radiography, Radiation Therapy and Nuclear Medicine.
Diagnostic Radiography topics include Ultrasound and Quality Control.
Nuclear Medicine topics include Ultrasound and SPECT and PET.
Radiation Therapy topics include External Beam Therapy, Brachytherapy and Computerised Planning and Dosimetry.
Assumed Knowledge: MRSC2500 MRS Physics & Instrumentation IIA

MRSC3010A Diagnostic Radiography Techniques II (Part A)
Units: 15
Locations: Callaghan
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 professional specific area of study examines the high modality imaging of disease and 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)
Units: 20
Locations: Callaghan
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)
Units: 5
Locations: Callaghan
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: MRSC205 Clinical Applications II

MRSC3060B Clinical Applications III (Part B)
Units: 10
Locations: Callaghan
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: MRSC205 Clinical Applications II

MRSC3090A Oncological Pathology (Part A)
Units: 5
Locations: Callaghan
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)
Units: 5
Locations: Callaghan
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

MRSC3110 Nuclear Medicine Instrumentation II
Units: 5
Locations: Callaghan
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: MRNT209 Nuclear Medicine Instrumentation I

MRSC3120A Nuclear Medicine Techniques II (Part A)
Units: 15
Locations: Callaghan
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: MRNT211 Nuclear Medicine Techniques II

MRSC3120B Nuclear Medicine Techniques II (Part B)
Units: 10
Locations: Callaghan
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: MRNT211 Nuclear Medicine Techniques II

MRSC3130A Oncological Principles II (Part A)
Units: 5
Locations: Callaghan
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: MRTT213 Oncological Principles II

MRSC3130B Oncological Principles II (Part B)
Units: 5
Locations: Callaghan
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: MRTT213 Oncological Principles II

MRSC3140 Ultrasound Physics
Units: 5
Locations: Callaghan
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: nill

MRSC3150 Diagnostic Radiography Methods IIIB
Units: 20
Locations: Callaghan
The two key components of the course 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: MRSC2150 Diagnostic Radiography Methods IIIB
MRSC3160A Techniques in Radiation Therapy II (Part A)

Units: 10
Locations: Callaghan

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 MRTT214. 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: MRTT214 Radiation Therapy Techniques II

MRSC3160B Techniques in Radiation Therapy II (Part B)

Units: 15
Locations: Callaghan

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 MRTT214. 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: MRTT214 Radiation Therapy Techniques II

MRSC3200 Radiation Therapy Methods IIIA

Units: 20
Locations: Callaghan

The four key components of the course 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 IIB

MRSC3250 Radiation Therapy Methods IIIB

Units: 20
Locations: Callaghan

The four key components of the course 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: MRSC3200 Radiation Therapy Methods IIIA

MRSC3300 Nuclear Medicine Methods IIIA

Units: 20
Locations: Callaghan

The three key components of the course 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: MRSC3300 Nuclear Medicine Methods IIIB

MRSC3400 Clinical Education IIIA

Units: 10
Locations: Callaghan

This course 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.

Students undertake professionally orientated practice in the clinical environment for forty weeks pre-semester 1, six weeks in Semester 1, and for four weeks in Semester 2. Students undertake the sociological component for fourteen of the non-clinical weeks across Semester 1 and Semester 2.

Assumed Knowledge: MRSC3450 Clinical Education IIIB

MRSC3450 Clinical Education IIIB

Units: 10
Locations: Callaghan

This course 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.

Students undertake professionally orientated practice in the clinical environment for forty weeks pre-semester 1, six weeks in Semester 1, and for four weeks in Semester 2. Students undertake the sociological component for fourteen of the non-clinical weeks across Semester 1 and Semester 2.

Assumed Knowledge: MRSC3400 Clinical Education IIIA

MRSC3600 MRS Research Project IIIA

Units: 10
Locations: Callaghan

This is a research development course that is designed to build on the students' research of others. 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 IIB

Units: 10
Locations: Callaghan

This is a research development course that is designed to build on the students' research of others. 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: MRSC3600 MRS Research Project IIIA

MRSC4100 Readings in Medical Radiation Science

Units: 10
Locations: Callaghan

This is a research development course 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 MRSC4200.

MRSC4150 Readings in Medical Radiation Science

Units: 10
Locations: Callaghan

This is a research development course 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 MRSC4250.

MRSC4200 Seminars in Medical Radiation Science

Units: 10
Locations: Callaghan

This is a research development course 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 MRSC4100.

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MRSC6010 Radiobiology And Radiation Protection
Units: 10
Locations: Distance Education - Callaghan
Re-introduces the student to the theoretical principles of radiobiology with the aim of increasing their understanding of the biological effects of radiation. The hazards of ionising radiation will be reviewed with reference to evidence from human populations exposed accidentally, as consequence of war, in radiation therapy, etc. The need to limit patient dose and occupational exposure will be discussed in the light of risk estimates. Students will be required to apply their knowledge of radiation protection in the development of a policy and procedures manual for their department/practice.
Assumed Knowledge: N/A

MRSC6040 Correlative Medical Imaging (Part 1)
Units: 10
Locations: Distance Education - Callaghan
This course is Part 1 of Correlative Medical Imaging. Part 2 must also be completed to meet the requirements of this sequence. Allows students to look at medical imaging more broadly, rather than within the context of a single imaging modality or technique, thus creating the opportunity for the student to develop an appreciation of the role of each medical imaging modality in diagnosis. The course takes a multi-modality approach to the human body on a system-by-system and pathology-related basis. An algorithmic approach to the imaging of common diseases will be used in the development of, and in the understanding of, “decision-trees” used in the selection of the most appropriate imaging technique. This course is delivered in distance mode.
Assumed Knowledge: N/A

MRSC6050 Quality Management in Medical Radiation Science
Units: 10
Locations: Distance Education - Callaghan
Develops a knowledge and understanding of the concepts of quality assurance and quality control and of how a quality improvement program can be implemented in a clinical department or practice. National and international radiation protection guidelines will also be reviewed in the context of quality management and the students will increase their knowledge of the current standards.
Assumed Knowledge: N/A

MRSC6060 Research Thesis Med Rad Sci (Part 1)
Units: 20
Locations: Distance Education - Callaghan
This course is Part 1 of Research Thesis Med Rad Sci. Part 2 must also be completed to meet the requirements of this sequence. Aims to allow the students to become actively involved in research and to bring a research project, in their own area of interest, to completion. This course will require the student to use a vast range of the knowledge and skills acquired in the course work component of the Masters degree. This course is delivered in distance mode.
Assumed Knowledge: MRSC6000

MRSC6070 Digital Medical Imaging
Units: 10
Locations: Callaghan
Develops the students’ understanding and appreciation of the uses of digital imaging technology in medicine.
Contact Hours: TBA
Assumed Knowledge: nil

MRSC6080 Physics & Equipment in Mammography
Units: 10
Locations: Callaghan
Refreshes and renews the radiographers knowledge of the physics of the process of radiographic image formation with special reference to mammography.
Contact Hours: TBA
Assumed Knowledge: nil

MRSC6090 Mammographic Anatomy & Pathology
Units: 10
Locations: Callaghan
Develops the students understanding the structure and function of the breast and tissue type in the normal and diseased breast, as well as an appreciation of both the normal and abnormal appearances in medical imaging.
Contact Hours: TBA
Assumed Knowledge: nil

MRSC6100 Breast Imaging Techniques
Units: 10
Locations: Callaghan
Develops students skills in managing patients who are undergoing both screening and follow-up mammography and producing the best possible mammographic outcome in terms of diagnosis and patient care. Delivery is over two semesters of part-time study, or one semester full-time, and is designed for the practicing radiographer.
Contact Hours: TBA
Assumed Knowledge: nil

MRSC6110 Mammography Clinical Practice
Units: 10
Locations: Callaghan
Complements the student’s academic studies in the specialised medical imaging modality of mammography and reflects wider knowledge of the multidisciplinary approach to the management of breast disease.
Contact Hours: TBA
Assumed Knowledge: nil

MRSC6120 Nuclear Medicine Science (Part 1)
Units: 10
Locations: Distance Education - Callaghan
This course is Part 1 of Nuclear Medicine Science. Part 2 must also be completed to meet the requirements of the sequence. Increases the depth of knowledge in Nuclear Medicine imaging techniques and procedures in clinical practice, the relevance of the choice of imaging technique, the implications of these procedures for both the patients and the clinicians, and the significance of the results in diagnosis and in achieving positive outcomes for the patients. Emphasis is given to the intellectual skills of the Nuclear Medicine Scientist.
This course is delivered in distance mode.
Assumed Knowledge: N/A
Assumed Knowledge: Students undertaking this course are required to have various forms of electronic material (such as video) within music sequencing software. Sequencing and arrangement methodology is examined through the juxtaposition of practically applied in this course. Using sequencing software, Music Instrument The principles of arranging and editing music in electronic forms are studied and applications will be examined. Advanced Musical Scoring Techniques

Units: 10
Locations: WebLearn

An examination and practical working of the production of professional music notation using computer software. Includes an investigation of the music publishing process through a series of outcome-based tutorials using specialised music notation software. Topics examined include entry methods, on-line page layout, industry publishing conventions, creating parts from scores, alternative notation and exporting/importing files. Emphasis is also placed on notational accuracy, style consistency, data entry efficiency and a solid grounding in traditional music notation conventions. Elements of contemporary scoring are also examined. Additional assumed knowledge is required.

MTEC6703 Studio Sound Techniques

Units: 10
Locations: WebLearn

Students will acquire a comprehension of techniques used to record and edit musical performances in a small to medium-sized recording studio. They will develop a wide knowledge of fundamental sound theory by studying a broad range of topics that may include acoustic principles, psychoacoustics, microphones, mixing techniques, digital audio theory and audio processing. Emphasis is placed on students using their ear to determine a musical sound, a logical comprehension of signal flow, adeptness at recording equipment operation, and obtaining good gain structures. Both analog and digital recording equipment will be used. During a short residential workshop recording experience will be gained using professional audio equipment. This is necessary to practically reinforce the theoretical work studied. Students will utilise and undertake assessments using studio equipment. Additional assumed knowledge is required.

MTEC6704 Live Sound Techniques

Units: 10
Locations: WebLearn

This course considers the use of audio equipment in conjunction with live musical performances. A range of relevant topics studied cover live audio recording and sound reinforcement. This may include amplifiers, microphone choice and placement, power loadings, designing and configuring an amplification system for sound reinforcement in a live venue, fold-back and monitoring, room acoustics, live mixing, live recording, equipment maintenance, basic electronics and safety issues. Case studies include examining several music ensembles and performance environments to determine amplification requirements and techniques. During a short residential workshop experience will be gained using professional audio equipment. This is necessary to practically reinforce the theoretical work studied. Where possible, real-life on-site applications will be examined. Additional assumed knowledge is required.

MTEC6705 Music and Digital Media

Units: 10
Locations: WebLearn

This course examines the use of multimedia material (audio, MIDI, graphics and video) in a musical context. Students undertake media research and production tasks to create/modify material that can be used in a musical application. The development of this material across the trimester culminates in the production of a cohesive music-oriented multimedia project. This will permit students to creatively realise a project relevant to a field of their interest. Additional assumed knowledge is required.

MTEC6706 Computer Assisted Instruction in Music

Units: 10
Locations: WebLearn

This course examines computer software technology designed to support the teaching and learning of music. Commercially available computer software packages are critically analysed to determine the level of the level attained of their musical content, approaches to teaching, functionality, effectiveness and structure. Knowledge gained from this study is put into practice when students design their own CAI project within pre-defined guidelines. The students culminate in writing a CAI software package (or component thereof) and presenting it as a teaching and learning resource. This may be in the area of aural development, theoretical and historical understanding of music, or performance of a musical instrument. Educational programs used for composition, improvisation and accompaniment may also be examined. Additional assumed knowledge is required.
**MUSI1202** Principal Study 2

Units: 10

Locations: Callaghan

Conservatorium

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.

**Assumed Knowledge:** MUSI1201 Principal Study 1. Course is limited to program enrolment or permission of the Dean.

**MUSI1210** Materials of Music 1

Units: 5

Locations: Conservatorium

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, rhythmic 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

Units: 10

Locations: Conservatorium

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. Students are also required to participate in Large Ensemble (Choir, Orchestra or Wind Orchestra).

Classes will be held at the Conservatorium.

**Assumed Knowledge:** Musical knowledge of a level to give admission to the Bachelor of Music.

**MUSI1212** Principal Study (Studio Teaching) 2

Units: 10

Locations: Conservatorium

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.

**Assumed Knowledge:** MUSI1211 Principal Study (Studio Teaching) 1.

**MUSI1220** Materials of Music 2

Units: 5

Locations: Conservatorium

The study of harmony and aural. Harmony at this level provides a grasp of axiomatic harmonic and contrapuntal procedures. These harmony studies provide students with additional harmonic resources to those studied in Materials 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 consult Conservatorium student administration office.

**Assumed Knowledge:** MUSI121; Materials of Music 1.

**MUSI1221** Principal Study Double Major 1

Units: 10

Locations: Conservatorium

Students enrol in this course 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 MUSI1201.

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**MUSI1101** Practical Music Studies (Education) 1

Units: 10

Locations: Conservatorium

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 course other than the entry requirements for the program(e), audition and minimum academic standard.

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**MUSI1102** Practical Music Studies (Education) 2

Units: 10

Locations: Conservatorium

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:** 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 MUSI1201.

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**MUSI1201** Principal Study 1

Units: 10

Locations: Callaghan

Conservatorium

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.

**Assumed Knowledge:** Nil.
MUSI1222 Principal Study Double Major 2
Units: 10
Locations: Conservatorium
Students enrol concurrently in MUSI1202 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: MUSI1221. Students should have completed or be concurrently enrolled in MUSI1202.

MUSI1310 Computing Techniques for Musicians
Units: 6
Locations: Conservatorium
Provides basic word processing and computing skills essential to the administration of music teaching studios, 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

MUSI1401 Ensemble Studies 1
Units: 10
Locations: Conservatorium
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 are held at the Conservatorium.
Assumed Knowledge: There is no assumed knowledge for the course other than the entry requirements for the program (audition and minimum academic standard).

MUSI1550 Principal Study Performance (Education) 2
Units: 10
Locations: Caughan Conservatorium
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
Units: 10
Locations: Conservatorium
Introduction to Studies in Western Music provides rudimentary instruction in three broad areas. Harmony 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 1.
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
Units: 10
Locations: Conservatorium
Studies in Western Music 1 provides instruction in three broad areas. Harmony 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 chordal 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 Conservatorium'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
Units: 10
Locations: Conservatorium
Studies in Western Music 2 provides instruction in three broad areas expanding upon the concepts encountered in Studies in Western Music 1. Harmony at this level provides a written and aural 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 chordal 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 Baroque and early Classical eras.

MUSI1610 Principal Study (Education) 1
Units: 5
Locations: Conservatorium
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: Admission to the course.

MUSI1620 Principal Study (Education)2
Units: 5
Locations: Conservatorium
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: Admission to the course.

MUSI1700 Introduction to Music Technology
Units: 10
Locations: Conservatorium
On-line form City Precinct
Introduction to Music Technology provides students with core music technology skills. Students will explore MIDI/sound/multimedia music applications using hardware (including sound processing equipment and computers) and associated software. This may include (but is not limited to) an introduction to Musical Instrument Digital Interface, examining automatic accomplishment software, fundamentals of sound recording, and an examination of music-oriented multimedia applications (such as web page production). Elementary skills of arranging, synchronising and sequencing MIDI and other digital data are examined. Students will also develop a strong grounding in music publishing software by reproducing excerpts of music notation. Availability in Semester 2 is subject to sufficient 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 music tests conducted during the audition process for admission (or equivalent).

MUSI1801 Specialist Instrumental/Vocal Studies 1
Units: 10
Locations: Conservatorium
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, Church Music and Opera Studies. Please consult the Conservatorium student administration office for details.
Assumed Knowledge: Nil

MUSI1802 Specialist Instrumental/Vocal Studies 2
Units: 10
Locations: Conservatorium
Design 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, Church Music and Opera Studies. Please consult the Conservatorium student administration office for details.
Assumed Knowledge: MUSI 1601 or at the discretion of the Dean

MUSI1811 Specialist Genre Studies 1
Units: 10
Locations: Conservatorium
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  
Units: 10  
Locations: Conservatorium  
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. Opera Studies option will require audition.

MUSI1970 Ensemble Studies Teaching (Education) 1  
Units: 5  
Locations: Conservatorium  
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  
Units: 5  
Locations: Conservatorium  
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.

MUSI2001 Introduction to Guitar  
Units: 10  
Locations: Callaghan  
Introduction to guitar teaches students to play the instrument enabling them to play simple accompaniments for folk-songs, 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.  
Assumed Knowledge: Nil. Students undertaking this subject do NOT require any previous musical training.

MUSI2002 Introduction to Keyboard  
Units: 10  
Locations: Callaghan  
Introduction to Keyboard teaches students a number of rudimentary keyboard techniques. This introduction will facilitate towards the ability to play simple choral accompaniments at the keyboard for elementary folk-songs, nursery rhymes and so on. Students will be taught the basic principles of keyboard style. No prior musical training is required for this subject.  
Assumed Knowledge: AART1101

MUSI2003 Introduction to Percussion  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Conservatorium  
Studies in practical music on one principal instrument or composition for Bachelor Teaching/Bachelor of Music 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  
Units: 10  
Locations: Conservatorium  
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  
Units: 10  
Locations: Conservatorium  
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  
Units: 10  
Locations: Callaghan  
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 School  
Units: 10  
Locations: Callaghan  
This course aims at providing students with the skills to organise and implement vocal/choral programs suited to the primary school context, with an emphasis on establishing primary choirs. Vocal training techniques, selection and adaptation of appropriate repertoire and conducting skills will be the focus of the course.  
Assumed Knowledge: AART1101 Foundation in Creative Arts (Music strand)

MUSI2070 Music Publishing Software  
Units: 10  
Locations: Conservatorium  
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 notation and 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.

MUSI2170 Techniques Studies  
Units: 5  
Locations: Off Campus  
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  
Units: 10  
Locations: Conservatorium  
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: MUSI2102 Principal Study 2

MUSI2202 Principal Study 4  
Units: 10  
Locations: Conservatorium  
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: MUSI2201 Principal Study 3
MUSI2702 Film Music: Soundtrack Creation
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil. Opera Studies will require audition.
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 realism 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 degrees is assumed.

MUSI2703 Advanced Music Publishing Techniques
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil. Opera Studies will require audition.
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
Units: 10
Locations: Conservatorium
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/ musical training, and electronic music information resources. Design approaches and constructional 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
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 1802 or at the discretion of the Dean
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, Church Music, Music Theatre and Opera Studies. Please contact the Conservatorium student administration office for details.

MUSI2802 Specialist Instrumental/Vocal Studies 4
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 2801 or at the discretion of the Dean
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, Church Music and Opera Studies. Please contact the Conservatorium student administration office for details.

MUSI2811 Specialist Genre Studies 3
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil
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.

MUSI2812 Specialist Genre Studies 4
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil. Opera Studies will require audition.
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.

MUSI2821 Pedagogy I
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil
Deals with techniques for teaching instruments and vocal studies in one-to-one settings such as in a private music teaching studio. Various instrumental techniques and teaching methodologies are dealt with. Availability subject to student numbers. Please consult the Conservatorium student administration office.

MUSI2822 Pedagogy II
Units: 10
Locations: Conservatorium
Assumed Knowledge: Nil
Deals with techniques for teaching instruments and vocal studies in one-to-one settings such as in a private music teaching studio. Various instrumental techniques and teaching methodologies are dealt with. Availability subject to student numbers. Please consult the Conservatorium student administration office.

MUSI2970 Ensemble Studies Teaching (Education) 3
Units: 5
Locations: Conservatorium
Assumed Knowledge: MUSI 1802
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.

MUSI2980 Ensemble Studies Teaching (Education) 4
Units: 5
Locations: Conservatorium
Assumed Knowledge: MUSI 1802
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.

MUSI3011 Practical Music Studies (Education) 5
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 2012 IV Practical Music Studies (Education) 4
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.

MUSI3012 Practical Music Studies (Education) 6
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 2012 IV Practical Music Studies (Education) 5
Students 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.

MUSI3201 Principal Study 5
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 2012 II Principal Study 4
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.

MUSI3202 Principal Study 6
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 3201 Principal Study 5
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.

MUSI3211 Principal Study (Studio Teaching) 5
Units: 10
Locations: Conservatorium
Assumed Knowledge: MUSI 2212 II Principal Study (Studio Teaching) 4.
MUSI3212 Principal Study (Studio Teaching) 6
Units: 10
Locations: Conservatorium
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.
Assumed Knowledge: MUSI3211 Principal Study (Studio Teaching) 6.

MUSI3221 Principal Study Double Major 5
Units: 10
Locations: Conservatorium
Students enrol in this course 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: MUSI2202. Students are expected to have completed or be concurrently enrolled in MUSI3201.

MUSI3222 Principal Study Double Major 6
Units: 10
Locations: Conservatorium
Students enrol in this course 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: 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 MUSI3202.

MUSI3231 Principal Study Double Performance 5
Units: 20
Locations: Conservatorium
Students who have achieved a very high level of performance in their previous years of study may be permitted to undertake double performance courses. 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
Units: 20
Locations: Conservatorium
Students who have achieved a very high level of performance in their previous years of study may be permitted to undertake double performance courses. The syllabus requirements are somewhat higher than those for the 10 unit courses.
Assumed Knowledge: MUSI3231

MUSI3401 Ensemble Studies 4
Units: 10
Locations: Conservatorium
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the technical and musical styles of ensemble playing through lectures, demonstrations and tutorials. In addition students will attend techniques classes specific to their principal study. The technical 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.
Assumed Knowledge: MUSI2402

MUSI3402 Ensemble Studies 5
Units: 10
Locations: Conservatorium
Students perform in Large Ensemble (Choir, Symphony Orchestra or Wind Orchestra) and Small Ensembles. In Small Ensembles students are introduced to the technical and musical 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.
Assumed Knowledge: MUSI3401

MUSI3540 Principal Study (Education) 5
Units: 5
Locations: Conservatorium
Advanced level studies in practical music performance on one instrument for 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
Units: 5
Locations: Conservatorium
Advanced level studies in practical music performance on one instrument for 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
Units: 10
Locations: Conservatorium
Studies in Western Music 5 provides instruction in three broad areas. Harmony studies at this level build on the aural and written harmonic foundations established in the preceding 1000 and 2000 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 also 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, and/or seminars. Music history studies offers elective strands. These electives might include Performance Practice (including research by performance) or Twentieth Century Music Survey.

MUSI3602 Music Research Studies
Units: 10
Locations: Conservatorium
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.

MUSI3801 Specialist Instrumental/Vocal Studies 5
Units: 10
Locations: Conservatorium
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment, Church Music and Opera Studies. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: MUSI 2802 or at the discretion of the Dean.

MUSI3802 Specialist Instrumental/Vocal Studies 6
Units: 10
Locations: Conservatorium
Designed to allow students to take special practical projects in instrumental or vocal studies. Options may include Wind Ensemble Studies (with a major emphasis on instrumental conducting), Chamber Choir, Introduction to Pipe Organ, Piano Accompaniment, Church Music and Opera Studies. Please contact the Conservatorium student administration office for details.
Assumed Knowledge: MUSI 3801 or at the discretion of the Dean.

MUSI3811 Specialist Genre Studies 5
Units: 10
Locations: Conservatorium
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
Units: 10
Locations: Conservatorium
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.
MUSI3970 Ensemble Studies Teaching (Education) 5
Units: 5
Locations: Conservatorium
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: MUSI398

MUSI3980 Ensemble Studies Teaching (Education) 6
Units: 5
Locations: Conservatorium
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
Units: 20
Locations: Conservatorium
Advanced practical work in both solo and ensemble performance with a supervisor.
Assumed Knowledge: Bachelor of Music or equivalent and Performance Quality Assessment.

MUSI4202 Performance II
Units: 20
Locations: Conservatorium
Further develops both solo and ensemble performance with a supervisor.
Assumed Knowledge: MUSI4101

MUSI4203 Professional Development Seminar
Units: 20
Locations: Conservatorium
Develops advanced skills in accompaniment, operatic performance or such other advanced specialisations.
Assumed Knowledge: Completed Bachelor of Music or equivalent and Performance Quality Assessment.

MUSI4204 Performance Project
Units: 20
Locations: Conservatorium
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: MUSI4203

MUSI4211 Composition 1
Units: 20
Locations: Conservatorium
Advanced composition skills in both solo and small ensemble works.
Assumed Knowledge: Bachelor of Music or equivalent and Performance Quality Assessment.

MUSI4212 Composition II
Units: 20
Locations: Conservatorium
Further develops composition skills.
Assumed Knowledge: MUSI4211

MUSI4601 Research Seminar
Units: 20
Locations: Conservatorium
Introduces students to the variety of forms and styles of music research.
Assumed Knowledge: Bachelor of Music or equivalent and Performance Quality Assessment.

MUSI4602 Research Project
Units: 20
Locations: Conservatorium
Students will write and submit a minor thesis of normally 10-20,000 words in length, developed under supervision. The thesis may, if appropriate, be accompanied by a recorded or live performance submission.
Assumed Knowledge: MUSI4601 Research Seminar

MUSI4603 Research Essay
Units: 20
Locations: Conservatorium
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: Bachelor of Music and Performance Quality Assessment.

MUSI4604 Musicology Project
Units: 40
Locations: Conservatorium
Students develop a research project under supervision comprising a thesis of 18,000 - 30,000 words which may be accompanied by a recorded or live performance submission. They also deliver a one hour lecture on their research work.
Assumed Knowledge: MUSI4603

MUSI6201 PERFORMANCE I
Units: 20
Locations: Conservatorium
In each semester, students enrol in a Performance unit and are expected to arrange for appropriate advanced tuition either inside or outside the School’s teaching staff. Each student is required to give at least one public concert performance each semester, of a program of around 1 hour’s duration. Repertoire studies will include a specialist area of research and display.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: Admission to the programme.

MUSI6202 PERFORMANCE II
Units: 20
Locations: Conservatorium
In each semester, students enrol in a Performance unit and are expected to arrange for appropriate advanced tuition either inside or outside the Faculty’s teaching staff. Each student is required to give at least one public concert performance each semester, of a program of around 1 hour’s duration. Repertoire studies will include a specialist area of research and display.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: MUSI6201 Performance I

MUSI6203 PERFORMANCE III
Units: 20
Locations: Conservatorium
In each semester, students enrol in a Performance unit and are expected to arrange for appropriate advanced tuition either inside or outside the Faculty’s teaching staff. Each student is required to give at least one public concert performance each semester, of a program of around 1 hour’s duration. Repertoire studies will include a specialist area of research and display.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: MUSI6202 Performance II

MUSI6204 PERFORMANCE IV
Units: 20
Locations: Conservatorium
In each semester, students enrol in a Performance unit and are expected to arrange for appropriate advanced tuition either inside or outside the Faculty’s teaching staff. Each student is required to give at least one public concert performance each semester, of a program of around 1 hour’s duration. Repertoire studies will include a specialist area of research and display.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: MUSI6203 - Performance III

MUSI6601 RESEARCH ESSAY
Units: 20
Locations: Conservatorium
Comprises an essay of not less than 10,000 words prepared under the direction of a research supervisor.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: Admission to the course.

MUSI6602 RESEARCH SEMINAR
Units: 20
Locations: Conservatorium
Students participate in the Faculty of Music’s Postgraduate Research Seminar. This seminar explores a variety of methods of writing about music, including traditional analysis of abstract music, biographical analysis, approaches to operatic and vocal music, performance style and analysis of music in relation to its social context. Students present outlines of their proposed research topics for the Research Project for scrutiny by their peers and staff members.
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: MUSI6601

MUSI6603 RESEARCH PROJECT I
Units: 20
Locations: Conservatorium
Students prepare either a thesis of up to 40,000 words embodying research into an aspect of music, or a performance project devoted to research exploration of a specific aspect of music, accompanied by a written submission.
Contact Hours: Not applicable
Location and Semester Details: Conservatorium Semester 1, 2
Assumed Knowledge: MUSI6602 Research Seminar
MUSI6604 RESEARCH PROJECT II
Units: 20
Locations: Conservatorium
Students complete and submit either a thesis of up to 40,000 words embodying research into an aspect of music, or a performance project devoted to research exploration of a specific aspect of music, accompanied by a written submission.
Assumed Knowledge: MUSI6603

NUDI1050 Food Chemistry (Design & Technology)
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
This course 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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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.

NUDI2100 Consumer Studies II
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 course, students will spend four consecutive weeks at a community health agency working on a nutrition promotion project.
Assumed Knowledge: NUDI1210 Introductory Dietetics

NUDI2200 Nutrition 2
Units: 10
Locations: Callaghan
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
NUDI1210 Introductory Dietetics
NUDI1220 Food Science 2

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NUDI2220 Food Science 2
Units: 10
Locations: Callaghan
Studies 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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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

NUDI3050A Applied Nutrition III (Part A)
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: n/a

NUDI3050B Applied Nutrition III (Part B)
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: NUDI104 Food Chemistry

NUDI3060B Product Development Project (Part B)
Units: 10
Locations: Callaghan
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.
Assumed Knowledge: NUDI104 Food Chemistry

NUDI312B Therapeutic Dietics (Part B)
Units: 10
Locations: Callaghan
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 Dietetic 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: 5 hours per week
Assumed Knowledge: NUDI311 (Compulsory Prerequisite), BCHM206, NUDI212.
Concurrent Assumed Knowledge: ALSCL302, NUDI303, PSYCH376

NUDI3210 Food Safety and Quality Systems
Units: 10
Locations: Callaghan
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
HUBS2201A Biochemistry - Part A
HUBS2201B Biochemistry - Part B

NUDI3220 Clinical Nutrition 1
Units: 10
Locations: Callaghan
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
HUBS22506A Physiology
NUDI2200 Nutrition 2
HUBS2220A1 Biochemistry - Part A
HUBS2220B1 Biochemistry - Part B
CONCURRENT ASSUMED KNOWLEDGE: NUDI3240 Dietetic Practice

NUDI3230 Clinical Nutrition 2
Units: 10
Locations: Callaghan
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

NUDI3240 Dietetic Practice
Units: 10
Locations: Callaghan
This course covers dietary intake assessment and counselling of individual clients in the clinical context. The concepts of stages of change, and strategies to deal with barriers to change are introduced. Students will spend two weeks on practical placement in a clinical setting to reach professional competency in diet history taking.
Assumed Knowledge: NUDI2110 (Compulsory Professional Prerequisite), BCHM2060, NUDI2200.
Concurrent Assumed Knowledge: NUDI3220.
NUDI3250 Programs for Nutrition Education
Units: 10
Locations: Callaghan
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 process and have the opportunity to observe and facilitate learning in small groups.
Assumed Knowledge: NUDI2110, NUDI2200.

NUDI3260 Food Service, Food Industry
Units: 10
Locations: Callaghan
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, NUDI2310 Food Safety and Quality Systems.

NUDI3270 Nutrition in Health and Disease
Units: 10
Locations: Callaghan
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: NUDI2320, NUDI3230 to be concurrent.

NUDI4100A Consumer Science Honours 410 (Part A)
Units: 20
Locations: Callaghan
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)
Units: 20
Locations: Callaghan
This course 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)
Units: 20
Locations: Callaghan
This course 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 NUDI4100 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 NUDI4110.
Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI4110B Consumer Science Honours 411 (Part B)
Units: 20
Locations: Callaghan
This course 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 NUDI4100 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 NUDI4110.
Assumed Knowledge: Bachelor of Applied Science (Consumer Science)

NUDI4150 Dietetics Practice
Units: 30
Locations: Callaghan
Students develop their dietetic practice competencies, consisting solely of 18 weeks fieldwork placements: clinical (12 weeks), food services (2 weeks), community (6 weeks).
Assumed Knowledge: NUDI4140 and NUDI4160

NUDI4160 Nutrition Education Programs
Units: 10
Locations: Callaghan
Focuses on nutrition education programs, especially the strategy of small group education. The course 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.
Assumed Knowledge: NUDI2110 Community Nutrition Practice

NUDI4170 Research Project
Units: 10
Locations: Callaghan
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, inter personal communication, analysis and interpretation of data and report writing.
Assumed Knowledge: Completion of research module in NUDI3120.

NUDI4200 Applied Dietetics 1
Units: 10
Locations: Callaghan
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, NUDI3230, NUDI3250, NUDI3270

NUDI4210 Applied Dietetics 2
Units: 10
Locations: Callaghan
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 Clinical Nutrition 1, NUDI3230 Clinical Nutrition 2, NUDI3270 Nutrition, Health and Disease

NUDI4220 Research Project
Units: 10
Locations: Callaghan
Students will undertake a supervised research project, incorporating self-directed learning, with assistance from their supervisors, both internal University academic staff and external health professionals. Projects will address the research question of “Does a dietitian make a difference”. Students will use evidence based techniques to develop and test a hypothesis on a clinical nutrition research question. This will ideally be in an area where there is sufficient published literature so that the student is able to critically appraise the topic.
Assumed Knowledge: NUDI3230, NUDI3240, NUDI3250, NUDI3260

NUDI4230 Community / Food Industry Practice
Units: 20
Locations: Callaghan
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, NUDI3270, NUDI32110.

NUDI4240 Clinical Practice
Units: 20
Locations: Callaghan
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 dietary department. There is no face-to-face teaching on campus but tutorials may be held as necessary.
Assumed Knowledge: NUDI3210, NUDI3220, NUDI3240, NUDI3250, NUDI3260, NUDI3230, NUDI3250, NUDI3270, NUDI4200.

NUDI4250 Public Health Nutrition
Units: 10
Locations: Callaghan
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: NUDI3220, NUDI3230, NUDI3250

NUDI5010 Nutritional Assessment in Athletes
Units: 10
Locations: Off Campus
Introduces the principles of nutritional assessment as it applies to athletes and to apply those principles in practice, in relation to body composition, dietary intake and nutritional stores and deficiencies.
Assumed Knowledge: Basic knowledge of statistics design.

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NURS2010 Foundation Studies in Nursing 2A
Units: 10
Locations: Callaghan, Gosford Hospital
Offered at Callaghan semester 1 and Gosford Hospital semester 2.
Examinations of some of the key professional, ethical and legal issues associated with the contemporary practice of nursing in the Australian health care system. Emphasis is placed on critical thinking, debate and ethical reasoning, as processes through which students can develop the skills of good clinical decision-making. Course materials include case-studies, reports of coronial inquests, case law, and current media reports to focus and guide learning.
Assumed Knowledge: NURS1010, NURS1020

NURS2020 Foundation Studies in Nursing 2B
Units: 10
Locations: Callaghan
Offered at Gosford Hospital semester 1 and Callaghan semester 2.
Focuses on population health, epidemiology and evidence-based practice. Explores the links between evidence, effective practice and health care outcomes. The nature of, and differences between, quantitative and qualitative evidence are addressed. Identifies the issues related to patterns of health and illness, the experience of illness, factors affecting health-related behaviours and the implications of these for the development of an evidence-base for practice.
Assumed Knowledge: NURS1020

NURS2130 Nursing Practice 2A
Units: 10
Locations: Callaghan
Offered at Callaghan semester 1 and Gosford Hospital semester 2.
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.
Assumed Knowledge: NURS1130 and NURS1120

NURS2140 Nursing Practice 2B
Units: 10
Locations: Callaghan
Offered Gosford Hospital semester 1 and Callaghan semester 2.
The primary focus is the practice of nursing linked with sociology in a range of different contexts and settings across the age continuum and among different cultural groups.
Assumed Knowledge: NURS1110, NURS1120, NURS2130

NURS2150 Nursing Practice 2C
Units: 10
Locations: Callaghan
Offered at Gosford Hospital semester 1 and Callaghan semester 2.
Introduces students to the practice of nursing in a range of different contexts and settings, related to children and adolescents from different cultural groups. Emphasis is on increasing the level of knowledge and understanding of the factors that promote health at an individual and community level and which contribute to health breakdown processes of the child and adolescent.
Assumed Knowledge: NURS2130, HJBS2010

NURS2210 Clinical Practicum 2A
Units: 10
Locations: Callaghan
Offered at Callaghan semester 1 and Gosford Hospital 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, disability and in the community.
Assumed Knowledge: NURS1210 and NURS1220

NURS2220 Clinical Practicum 2B
Units: 10
Locations: Callaghan
Offered at Gosford Hospital semester 1 and Callaghan 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.
Assumed Knowledge: Essential Skill: Safe clinical practice at NURS2210 level and no unsatisfactory clinical reports at preceding levels.

NURS3010 Foundation Studies in Nursing 3A
Units: 10
Locations: Callaghan
Offered at Callaghan semester 1 and Gosford Hospital semester 2.
Consolidates students' preparation for entry to clinical practice by developing critical analysis as the basis for informed clinical judgment. 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.
Assumed Knowledge: NURS2020

NURS3020 Foundation Studies in Nursing 3B
Units: 10
Locations: Callaghan
Offered at Gosford Hospital semester 1 and Callaghan semester 2.
The course provides the opportunity to demonstrate the application of past knowledge and experience to nursing in the clinical environment. Clinically based with classroom and online support.
Assumed Knowledge: NURS3010

NURS3130 Nursing Practice 3A
Units: 10
Locations: Callaghan
Offered at Callaghan semester 1 and Gosford Hospital semester 2.
This course aims to introduce students to situations involving patients with multiple pathologies/health/nursing issues and to assist in facilitating problem-solving, inquiry and learning skills relevant to these situations. The range of selected health breakdown processes covered in this course are traumatic brain injury (TBI), spinal injuries, diabetes mellitus (DM)/diabetic ketoacidosis (DKA), renal failure, anxiety disorders and personality disorders across the age continuum.
Assumed Knowledge: NURS2130, NURS2140, NURS2150
Knowledge in using a computer and Blackboard; skills in critical thinking and analysis, academic essay writing, researching online databases and literature are essential to this course.

NURS3140 Nursing Practice 3B
Units: 20
Locations: Callaghan
Offered at Gosford Hospital semester 1 and Gosford Hospital semester 2.
This course provides the opportunity for students to complete learning activities that are based upon the experience of real patients in health care settings. This approach is designed to assist students to consolidate past learning experiences in contemporary nursing practice whilst facilitating a closer 'fit' with learning experiences associated with the Clinical Practicum 3B course NURS3220. The learning in psychological and sociological issues in relation to nursing practice are also integrated in this course.
Assumed Knowledge: Knowledge in using a computer and Blackboard; and skills in critical thinking and analysis, academic essay writing, and research online databases and literature are essential to this course.

NURS3210 Clinical Practicum 3A
Units: 10
Locations: Callaghan
Offered at the Gosford Hospital site semester 1 and Callaghan semester 2.
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.
Assumed Knowledge: NURS2220, safe clinical practice at 2000 level and no unresolved or unsatisfactory clinical reports at preceding levels.

NURS3220 Clinical Practicum 3B
Units: 10
Locations: Callaghan
Offered at the Gosford Hospital site semester 1 and Callaghan semester 2.
Offers opportunities for students to identify, explore and apply theoretical principles and clinical skills in the context of experiential learning, under supervision and with increasing independence. Through this, they increase their ability to plan, deliver and evaluate care in a variety of health care settings.
Assumed Knowledge: Essential Skills: Safe clinical practice at NURS3210 and no unresolved or unsatisfactory clinical reports at previous levels.

NURS3510 Enquiry and Learning Skills
Units: 10
Locations: On-line from Callaghan
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.
Assumed Knowledge: nil
NURS3520 Conceptualising Nursing Practice
Units: 10
Locations: On-line from Callaghan
Offered online 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’.
Assumed Knowledge: NURS3510

NURS3530 Legal and Ethical Issues in Nursing Practice
Units: 10
Locations: On-line from Callaghan
Offered online only if there is sufficient student demand.
Explores relevant aspects of ethics and law which may affect nurses. Assumptions about ethics and law will be analysed, with students exploring basic principles and applying them to nursing and health care.
Assumed Knowledge: NURS3510

NURS3540 Clinical Studies
Units: 10
Locations: On-line from Callaghan
Offered online only if there sufficient student demand.
Clinical Studies 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.
Assumed Knowledge: NURS3510

NURS3560 The Nurse as an Educator/Manager
Units: 10
Locations: On-line from Callaghan
Offered online only if there sufficient student demand.
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 utilises a problem based approach to teaching and learning, in which theoretical concepts are linked to practice contexts and the learning process is student centred. 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.
Assumed Knowledge: NURS3510

NURS3570 Nursing Research
Units: 10
Locations: On-line from Callaghan
Offered online only if there is sufficient student demand.
Examines the role of research in nursing and health care in a focused way. There is a consolidation of previously introduced skills and exploration of problem identification and data collection. The analyses and design of projects appropriate to introductory research activities are examined.
Assumed Knowledge: NURS3510

NURS3610 Nursing Technology and Change
Units: 10
Locations: On-line from Callaghan
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.
Assumed Knowledge: NURS3510

NURS3650 Studies in Specialised Practice
Units: 10
Locations: On-line from Callaghan
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 practice-development issues such as clinical supervision and nursing development units relevant to the chosen area of practice.
Assumed Knowledge: NURS3510

NURS4020 Design and Method for Qualitative Research in Nursing
Units: 10
Locations: On-line from Callaghan
Examines professional, epidemiological, 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.
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
Units: 10
Locations: On-line from Callaghan
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.
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
Units: 10
Locations: On-line from Callaghan
Focuses on the origins and development of nursing knowledge and the historical influences of broader philosophical and scientific inquiry on nursing. There is a requirement to attend a series of study sessions on campus in April. These will include lectures, discussions and seminars.
Assumed Knowledge: A completed Bachelor of Nursing or equivalent degree, with evidence of high academic achievement.

NURS4130 Knowledge and Theory Development in Nursing B
Units: 10
Locations: On-line from Callaghan
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.
Assumed Knowledge: Completed Bachelor of Nursing or equivalent degree with evidence of high academic achievement.

NURS4920 Honours Thesis Development
Units: 20
Locations: On-line from Callaghan
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.
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
Units: 20
Locations: On-line from Callaghan
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.

NURS6010 Nursing Practicum
Units: 10
Locations: Off Campus
Enables students to undertake a clinical practicum in a selected clinical setting in order to enhance their knowledge and skills in particular areas of clinical practice by following an independent learning contract, negotiated with the course coordinator, and working with guidance from a clinical mentor.
Assumed Knowledge: Foundations of nursing knowledge, nursing theory, legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Academic reading and writing skills, ability to access and evaluate information forms a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Demonstrated ANCI competencies.
NURS6090 Investigative Methods for Clinical Practice
Units: 10
Locations: Off Campus
This course provides the opportunity for students to gain skills in conducting an evaluation of a systematic review on a topic of your choice related to your current or future clinical practice, and in preparing a protocol for a systematic review.
Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.

NURS6110 Conceptual Frameworks for Clinical Practice
Units: 10
Locations: Off Campus
Focuses on theoretical thinking in nursing and midwifery practice and research, with particular emphasis on concept analysis, organisation of concepts into useful frameworks for analysis of and research into clinical practice, and the study of the phenomena related to specialised areas of clinical practice.
Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated Australian Nursing Council Inc. competencies.

NURS6120 Contemporary Nursing
Units: 10
Locations: Off Campus
Provides students with an opportunity to critically examine areas of significance and issues related to contemporary nursing. It includes a critical analysis of the social, historical, political, legal and ethical aspects that impinge on contemporary nursing.
Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated Australian Nursing Council Inc. competencies.

NURS6160 Midwifery Practice 1
Units: 10
Locations: Off Campus
This program will enable the student to develop a physiological, psychological and social understanding of the experiences of women during the normal preconceptual, ante-partum, intrapartum and post-partum stages of childbearing. The physiological development of the fetus, as well as the adaptation of the neonate to extra-uterine life will also be covered, as well as care of the newborn and newborn assessment.
Assumed Knowledge: Bachelor Nursing or equivalent. Evidence of clinical experience as an RN.

NURS6170 Midwifery Practice 2
Units: 10
Locations: Off Campus
Builds on the approach and content in the course Midwifery Practice 1 and facilitates the development of knowledge and skills necessary to engage in midwifery care for women experiencing variations from normal or problems during the antenatal, intrapartum and postpartum periods.
Assumed Knowledge: All students enrolled in this course must have a current authority to practice as a registered nurse issued by the New South Wales Nurses Registration Board and participate in midwifery clinical practice. This course builds on knowledge and skills developed in the courses NURS6160 Midwifery Practice 1 and NURS6580 Midwifery Practice Issues.

NURS6180 Midwifery Practice 3
Units: 10
Locations: Off Campus
Builds on the approach and content in the course, NURS6160 and NURS6170 to facilitate the development of knowledge and skills necessary to engage in collabora-
tive care for women and their babies experiencing variations in wellness or problems during the antenatal, labour and birth and postpartum periods.
Assumed Knowledge: All students enrolled in this course must have a current authority to practice as a registered nurse issued by the New South Wales Nurses Registration Board and participate in midwifery clinical practice. This course builds on knowledge and skills developed in the courses NURS6160 Midwifery Practice 1 and NURS6580 Midwifery Practice Issues.
NURS6300  Psychiatric/Mental Health Nursing  
Units: 10  
Locations: Callaghan  
Facilitates the development of advanced nursing practice skills in mental health nursing. Students will be encouraged to critically examine practices in this specialty area, to identify local, national and international trends in health service provision and to reflect on their individual skills and knowledge in mental health nursing practice.  
Contact hours: 4 x 3 hour workshops plus support sessions  
Assumed Knowledge: Foundations of nursing knowledge, nursing theory, legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6410  Project/Thesis Development  
Units: 20  
Locations: On-line from Callaghan  
Provides students with the opportunity to undertake an extended literature review in an area of interest. The final submission should reflect the appropriate academic style and structure of a thesis.  
This course is a pre-requisite for NURS6420 Project/Thesis Completion. Students are required to demonstrate satisfactory progress in relation to their project before they are permitted to proceed with a NURS6420 Project/Thesis Completion.  
Assumed Knowledge: Foundations of nursing knowledge, nursing theory legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6420  Project/Thesis Completion  
Units: 20  
Locations: On-line from Callaghan  
Provides students with the opportunity to undertake an extended literature review in an area of interest. The final submission should reflect the appropriate academic style and structure of the thesis.  
This course follows on from NURS6410 Project/Thesis Development. Students are required to demonstrate satisfactory progress in NURS6410 Project/Thesis Development before they will be permitted to proceed with NURS6420 Project/Thesis Completion.  
Assumed Knowledge: Foundations of nursing knowledge, nursing theory legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6430  Providing Specialist Nursing Care  
Units: 20  
Locations: Off Campus  
Provides students with the opportunity to undertake an extended literature review in an area of interest. The final submission should reflect the appropriate academic style and structure of the thesis. 

NURS6440  Leading Through Practice  
Units: 20  
Locations: Off Campus  
This course is designed for students to design and implement a “Change Project” through the development of a learning contract. The project will focus on an area of change in the student’s chosen specialisation area of practice and allow the student to demonstrate an understanding of issues concerning change, leadership and quality. The area of change must be one which involves discussion of health resources, prioritisation/triage, therapeutic case management, conflict resolution and measurement of quality.  
Assumed Knowledge: Foundations of nursing knowledge, nursing theory legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6450  Symptom Management in Clinical Practice  
Units: 10  
Locations: Off Campus  
Examines the pathophysiology, experience, medical management, and nursing assessment and management of symptoms such as pain, nausea and vomiting, anorexia, dyspnoea, and fatigue. It provides students with the opportunity to increase their knowledge of the pathophysiology of common distressing symptoms in patients and to be able to utilise appropriate management strategies to alleviate these symptoms and provide patient comfort. Students will be encouraged to explore aspects of symptom management that are of particular concern to their specialist clinical practice.  
Assumed Knowledge: Foundations of nursing knowledge, nursing theory legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6520  Contemporary Midwifery  
Units: 10  
Locations: Off Campus  
This course provides for an examination of the legal, ethical and professional issues which impact on midwifery practice in contemporary society. One aspect of this practice is the need to develop sound clinical decision making skills based on a broad theory base.  
Assumed Knowledge: 1. All students enrolled in this course must have a current authority to practice as a registered nurse issued by the New South Wales Nurses Registration Board and participate in midwifery clinical practice.  
2. This course builds on knowledge and skills developed in the courses NUR6160 Midwifery Practice 1 and NURS6580 Midwifery Practice Issues.  
3. NURS6170  

NURS6580  Midwifery Practice Issues  
Units: 10  
Locations: Off Campus  
Provides students with an opportunity to explore the history, philosophy and practice of midwifery in a range of settings and will consider the implications for practice of the structures within the Australian health care system. The role of the midwife within various modes of practice will also be critically examined. In addition attention will be directed to further development of the central role of the midwife in building relationships with both clients and colleagues.  
Assumed Knowledge: Completed Bachelor of Nursing degree or equivalent Foundations of nursing knowledge, nursing theory, legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.  

NURS6590  The Childbearing Woman and her Family  
Units: 10  
Locations: Off Campus  
Encourages the critical analysis of health issues relating to women. The needs of specific groups are investigated, incorporating a social, political, economic, cultural and spiritual perspective. One outcome of the analysis will be to meet the educational needs of the client through application of appropriate teaching strategies. The program also explores the concept of families within the Australian context.  
Assumed Knowledge: Completed Bachelor of Nursing degree or equivalent
**NURS6600 Perspectives on Palliative Care**
Units: 10
Locations: Callaghan
Provides the student with the opportunity to explore the emergence of the modern hospice/palliative care movement in Australia and in the world. Different models and philosophies of palliative care are examined. Examines legal and ethical issues inherent in the practice of palliative care (e.g., euthanasia, resuscitation, truth telling, autonomy, competency for self-determination, informed consent, and “dying with dignity” guidelines).

**Assumed Knowledge:** Completed Bachelor of Nursing or equivalent

**NURS6630 Collaborative Practice in Maternal & Child Health**
Units: 10
Locations: Off Campus
Provides students with an opportunity to explore the notion of collaborative practice. Activities will challenge the student’s thinking and value system in relation to nursing and midwifery and their role in contemporary maternity care. Seeks to assist the student to develop a greater understanding and knowledge of the issues involved in collaborative practice. Aims to empower students to develop and implement strategies that will facilitate collaborative practices in a variety of contexts.

**Contact hours:** 3 x 6 hour workshops

**Assumed Knowledge:** Completed Bachelor of Nursing degree or equivalent

**NURS6640 Teaching and Learning in the Clinical Context**
Units: 10
Locations: Off Campus
Explores the role of the clinician as an educator of colleagues. It examines theories of adult teaching and learning and requires students to analyse their practice to identify opportunities for learning and to develop a repertoire of skills appropriate to both planned and opportunistic learning opportunities.

**Assumed Knowledge:** Foundations of nursing knowledge, nursing theory, legal and ethical issues, fundamentals of research, human bioscience, psychology, sociology related to practice. Principles of investigative approaches in nursing, concepts and theories relevant to practice, contemporary nursing issues. Academic reading and writing skills, ability to access and evaluate information from a variety of sources, skills in critical analysis, critical judgement, synthesis and evaluation. Ability to conceptualise practice. Demonstrated ANCI competencies.

**NURS6650 Midwifery Practice A**
Units: 15
Locations: Callaghan
Central Coast

Enables the student to critically examine relevant research to develop the knowledge and skills to provide care for women during normal preconceptional, antenatal, intrapartum and postpartum and to provide care for the normal neonate. Addresses specific problems which occur very frequently (pre eclampsia) or require immediate action (postpartum haemorrhage; neonatal resuscitation; shoulder dystocia; cord prolapse). Requires students to demonstrate beginning the development of the NSW NRB Competencies of the Midwife and the required clinical experiences. Therefore concurrent superannuation clinical experience is an integral component of this subject.

**Contact hours:** 4.5 hours per week

**Assumed Knowledge:** Completed Bachelor of Nursing or equivalent

**NURS6660 Midwifery Practice B**
Units: 15
Locations: Callaghan
Builds on the approach and content in the subject Midwifery Practice A and facilitates the development of knowledge and skills necessary to engage in collaborative care for women experiencing variations from normal. Development of problems identified during the antenatal, intrapartum and postpartum periods. In addition the student will develop skills necessary to recognise actual or potential problems, illness or abnormality in the neonate and provide short term care. and collaborative care in collaboration with neonatal specialists.

**Assumed Knowledge:** Completed Bachelor of Nursing or equivalent

**OCCT1000A Occupational Science 1 (Part A)**
Units: 5
Locations: Callaghan

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Seeks to develop knowledge and skills that can be applied to the workplace and to the management of clients with problematic health conditions. This unit examines the concept of occupational science and provides an introduction to the scientific study of work. This subject introduces students to a number of aspects of the Occupational Therapy profession and its practice.

**Assumed Knowledge:** Completed Bachelor of Nursing degree or equivalent

**OCCT1010A Occupational Therapy Practice 1 (Part A)**
Units: 5
Locations: Callaghan

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

**Assumed Knowledge:** Nil

**OCCT1010B Occupational Therapy Practice 1 (Part B)**
Units: 10
Locations: Callaghan

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

**Assumed Knowledge:** Nil
Assumed Knowledge: Satisfactory completion of the first year of the program - this includes Occupational Science 1.

OCCT2000A Occupational Science 2 (Part A)

Units: 5
Locations: Callaghan

This course is Part A of a multi-term sequence. Part A 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 illness 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)

Units: 5
Locations: Callaghan

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: Nil

OCCT1000 Occupational Science & Occupational Therapy 1100

Units: 20
Locations: Callaghan

This course introduces students to fundamental concepts of occupational science and occupational therapy. Students explore the occupational nature of human beings within a developing science of occupation. They study the history and philosophy of the profession of occupational therapy, and are introduced to basic concepts and skills relevant to professional practice in the health professions - such as communication, informatics, critical analysis and professional writing.

Assumed Knowledge: Nil

OCCT1001 Occupational Science & Occupational Therapy 1200

Units: 20
Locations: Callaghan

This course builds on the concepts of occupational science and occupational therapy introduced in OCCT1100. Students explore the occupational nature of human beings within the developing science of occupation. They study fundamental research principles and processes and are introduced to basic concepts and skills relevant to professional practice in the health professions - such as communication, informatics, critical analysis and professional writing.

Assumed Knowledge: Nil

OCCT1020A Professional Practice in Occ Therapy (Part A)

Units: 5
Locations: Callaghan

This course is Part A of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence. Presents students with topics which encourage an understanding of factors significant for their personal and professional development as competent, ethical practitioners. It lays the foundation for a reflective and critical understanding of professional roles. The subject provides opportunities for skill development in such areas: communication, informatics, critical analysis and professional writing.

Assumed Knowledge: Nil

OCCT1020B Professional Practice in Occ Therapy (Part B)

Units: 5
Locations: Callaghan

This course is Part B of a multi-term sequence. Part A 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 the development of occupational therapy practice by addressing occupational dysfunction experienced during childhood, adolescence, adulthood and late adulthood. More specifically, the course focuses 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 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 experimentation. 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 the 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

OCCT1020A Occupational Therapy Practice 2 (Part A)

Units: 20
Locations: Callaghan

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

Assumed Knowledge: Occupational Therapy Practice 1, Professional Practice 1

OCCT1020B Occupational Therapy Practice 2 (Part B)

Units: 30
Locations: Callaghan

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

Assumed Knowledge: Occupational Therapy Practice 1, Professional Practice 1

Guide to Undergraduate and Postgraduate Courses - 2003
This course explores core theory and practice areas of occupational therapy. It introduces the student to 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.

Occupational Therapy 2 - Introductory Theory & Practice is distinct from the course content offered in Occupational Therapy 2 - Applied Theory and Practice (second semester) in that it includes generic theory and skills that the students are expected to apply during any fieldwork setting in first and second semester. Specifically, the theory and practice will include safe handling and lifting techniques, transfer of patients, models of practice and the process of solving a case study.

Once the generic practice skills are completed, occupational therapy students are divided into four groups. Each group will start a three-week block on a different focus area (Neurology, Paediatrics, More Occupational Health and General Physical) followed by three-weeks of practice (fieldwork) related to the focus area they have started. (In Occupational Therapy Applied Practice Skills, offered in second semester, students would rotate to the other 3 focus areas). This format (different groups rotating) ensures that fieldwork placements are available that relate to the relevant focus areas. After they return from fieldwork, they will further consolidate their learning with specific practice skills related to the focus areas. The course has a strong practical focus and uses case studies to allow students within a safe laboratory environment to problem solve and practice specific intervention skills.


Units: 20
Locations: Callaghan

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

Occupational Science 2

This course focuses on the application of occupational science concepts to better understand people with ill-health and occupational dysfunction. The international relevance of occupational science concepts will be reviewed alongside recent developments in the classification of dysfunction and health by the World Health Organisation. Issues relevant to professional practice will be analysed in terms of how well the needs of people as occupational beings are addressed at both an individual and community level.

Assumed Knowledge : 2003: OCCT1000A&B, OCCT1010A&B, OCCT2010A

Units: 10
Locations: Callaghan

This course complements the core studies and practical experiences of second year occupational therapy students. It contains a psychological and sociological component.

a) The psychological component explores psychological issues relevant to the practice of Occupational Therapy, including illness and disability. It focuses on the Biopsychosocial model of health. Topics may include the psychological aspects of pain and stress, grief and bereavement, and communication and compliance. It covers both phenomenal and practical domains.

b) The sociological component focuses on the social context: the social processes and structures that shape and influence the Biopsychosocial model of health, health care practices and policies. In particular it examines the role of, and tension between, stakeholders in the development of health care practices and health policy.

The Psychology component is not part of an Australian Psychological Society accredited sequence.

Assumed Knowledge : PSY1030, SOCA1200

Units: 10
Locations: Callaghan

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

Occupational Science 2

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

Occupational Science 2

Occupational Therapy 3 (Part A)

This course complements the core studies and practical experiences of second year occupational therapy students. It contains a psychological and sociological component.

a) The psychological component explores psychological issues relevant to the practice of Occupational Therapy, including illness and disability. It focuses on the Biopsychosocial model of health. Topics may include the psychological aspects of pain and stress, grief and bereavement, and communication and compliance. It covers both phenomenal and practical domains.

b) The sociological component focuses on the social context: the social processes and structures that shape and influence the Biopsychosocial model of health, health care practices and policies. In particular it examines the role of, and tension between, stakeholders in the development of health care practices and health policy.

The Psychology component is not part of an Australian Psychological Society accredited sequence.

Assumed Knowledge : PSY1030, SOCA1200

Units: 10
Locations: Callaghan
OCCT3020  Occupational Therapy Specialty Topics 3

Units: 10
Locations: Callaghan

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 specialty 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)

OCCT3030  Occupational Therapy-Specific Practice Skills 3

Units: 10
Locations: Callaghan

This course continues the development of assessment and treatment skills in occupational dysfunction related to paediatric and adult physical disorders, which was begun in Occupational Therapy Theory and Practice 2. Students will undertake a fieldwork placement and engage in PBL tutorial sessions which consolidate their understanding of treatment planning and occupational analysis.

Assumed Knowledge: Studies in Years 1 and 2 of the Bachelor of Health Science (Occupational Therapy)

OCCT3030A  Elective (Occupational Therapy) (Part A)

Units: 5
Locations: Callaghan

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

Comprises 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 six 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).

OCCT3030B  Elective (Occupational Therapy) (Part B)

Units: 5
Locations: Callaghan

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

Comprises a two part course to broaden students' knowledge/skill base related to occupational therapy practice. Students are offered a choice of two elective study modules from among six 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).

OCCT3100  Occupational Therapy Practice & Practice 3100

Units: 30
Locations: Callaghan

This subject aims to integrate the first two years of students' knowledge in physical dysfunction with psychosocial theory and practice necessary for occupational therapy practice.

Firstly, this course allows the student to further consolidate assessment and treatment skills acquired during the previous four physical dysfunction focus units covered in Occupational Therapy Theory and Practice 2 courses by completing their last unit fieldwork placement associated with their fourth focused theory learning unit in the course Occupational Therapy Theory and Practice 2 and by providing additional problem solving opportunities in treatment planning and occupational analysis. Secondly, this course develops students' competencies in assessment, intervention, occupational analysis and program planning in the area of psychosocial and mental health practice. Knowledge and skills in relation to professional, legal and ethical issues are also extended. Professional communication, methods of organisation and day-to-day management practices are also examined.


OCCT3110  Occupational Science & Psychology 3110

Units: 10
Locations: Callaghan

The focus of this course complements the core studies and practical experiences of third year Occupational Therapy students and is therefore only available for these students. It contains occupational science and psychology components:

a) The occupational science component focuses on qualitative research methodologies used in researching occupations and their relationship to health and well-being.

b) The psychological component, 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. The Psychology component is not part of an Australian Psychological Society accredited sequence.

A final result is not established until the completion of both components.


From 2004: OCCCT2200, OCCCT2210, OCCCT2220

OCCT3200  Occupational Therapy Theory & Practice 3200

Units: 20
Locations: Callaghan

This course allows the student to further consolidate assessment and treatment skills acquired during the psychosocial and mental health units included in Occupational Therapy Theory and Practice 3100 by providing additional group work and problem solving opportunities in treatment planning and occupational analysis.

In addition, this course further develops students' competencies in assessment, intervention, occupational analysis and program planning in the area of psychosocial and mental health practice. Two clinical fieldwork placements are undertaken.


2005: OCCCT1100, OCCCT1200, OCCCT2100, OCCCT2110, OCCCT2200, OCCCT2210, OCCCT2220, OCCCT3100, OCCCT3110

OCCT3210  Occupational Science & Sociology 3210

Units: 10
Locations: Callaghan

This course builds on prior studies into occupational science and health sociology undertaken during the first two and a half years of the Occupational Therapy program. It contains two strands - in occupational science and sociology:

a) The occupational science strand explores qualitative research methodologies which support inquiry into human occupations, the practice of occupational therapy, and their relationship to health and well-being.

b) The sociology strand addresses sociological perspective on mental health and illness, including the social processes that lead to the categorisation of behaviour as pathological and that govern the provision of mental health services and health professional practice.

A final result is not established until the completion of both components.


2005: OCCCT1100, OCCCT1200, SOC1200, OCCCT2100, OCCCT2110, OCCCT2200, OCCCT2210, OCCCT2220, OCCCT3110

OCCT3220  Occupational Therapy Specialty Topics 3220

Units: 10
Locations: Callaghan

This course broadens students' knowledge/skill base related to specialist areas of occupational therapy practice. Students are select to study one specialist topic from a number of occupational therapy practice areas. The specialty topics offered to students will vary from year to year, but may include such topics as home modifications, occupational health, paediatrics, falls prevention and creative and expressive arts in therapy.


2005: OCCCT1100, OCCCT1200, SOC1200, OCCCT2100, OCCCT2110, OCCCT2200, OCCCT2210, OCCCT2220, OCCCT3110

OCCT4100  OCCUPATIONAL THERAPY THEORY AND PRACTICE 4A

Units: 40
Locations: Callaghan

This course aims to consolidate previous knowledge and skills and broaden the students' experience in the practice of occupational therapy. A specific area of specialist practice is studied in depth within a learning unit. Students also undertake extended fieldwork practice in an area of their choice,and at the conclusion of this are expected to be performing at the level of a beginning practitioner. Students develop a proposal to study one specialist topic from a number of occupational therapy practice areas. The specialty topics offered to students will vary from year to year, but may include such topics as home modifications, occupational health, paediatrics, falls prevention and creative and expressive arts in therapy.


2005: OCCCT1100, OCCCT1200, SOC1200, OCCCT2100, OCCCT2110, OCCCT2200, OCCCT2210, OCCCT2220, OCCCT3110
OCCT4200  Occupational Therapy Theory and Practice 4B  
Units: 40  
Locations: Callaghan  
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. Case 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 Occupational Therapy.

OCCT4300  Occupational Therapy Honours A  
Units: 40  
Locations: Callaghan  
This course aims to consolidate previous knowledge and skills and broaden the student's experience of both research and practice in occupational therapy. A specific area of specialist practice is studied in depth within a learning unit. Students also undertake extended fieldwork practice in an area of their choice, and at the conclusion of this are expected to be performing at the level of a beginning practitioner. Students also formulate a research question of relevance to occupational therapy, and prepare an ethics application to undertake a supervised research project which they will carry out as part of the requirements of the companion course, OCCT4400. Students enrolling for OCCT4300 and OCCT4400 must have achieved a cumulative grade point average of at least 5.5/7 in their first three years of study in the Bachelor of Occupational Therapy.  
Assumed Knowledge: Completion of all subjects in the first 3 years of the Bachelor of Occupational Therapy with a cumulative GPA of at least 5.5/7.

OCCT4400  Occupational Therapy Honours B  
Units: 40  
Locations: Callaghan  
This course builds on Occupational Therapy Honours A to enable students to consolidate their knowledge and skills and broaden their experience of research and practice in occupational therapy. Specific areas of practice are studied in depth in specialist learning units. Furthermore, building on the research plan developed in OCCT4300, students undertake a supervised research project of relevance to occupational therapy practice. The results of this project are then written up in the form of a manuscript suitable for submission to a refereed journal. 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. Case analysis requires consideration of the influences of political, business, technological and other social systems on occupation and health. Students enrolling in OCCT4300 and OCCT4400 must have achieved a cumulative grade point average of at least 5.5/7 in their first three years of study in the Bachelor of Occupational Therapy.  
Assumed Knowledge: Completion of all subjects in the first 3 years of the Bachelor of Occupational Therapy with a cumulative GPA of at least 5.5/7.

OHSE1120  Occupational Health II  
Units: 10  
Locations: Callaghan  
The purpose of this course 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 HUBS1410.

OHSE1210  Safety Science I  
Units: 10  
Locations: Callaghan  
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, prioritising Mathematics.

OHSE1220  Safety Science II  
Units: 10  
Locations: Callaghan  
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 course is a companion course to 'Safety Science I'.  
Assumed Knowledge: OHSE1210.

OHSE1310  Occupational Health and Safety Management 1  
Units: 10  
Locations: Callaghan  
Considers the theories and ideas underlying management and organisational behaviour. Supporting tutorials provide exposure to the more practical aspects of work in organisations. OHSE1310 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  
Units: 10  
Locations: Callaghan  
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 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.  
Assumed Knowledge: The course assumes no prior knowledge of law.

OHSE1410  Occupational Health & Safety Practice I  
Units: 10  
Locations: Callaghan  
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 course also contains a program of industrial and other visits.  
Assumed Knowledge: Nil

OHSE1430  Occupational Health & Safety Practice II  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: N/A

OHSE2110  Occupational Hygiene & Toxicology I  
Units: 10  
Locations: Callaghan  
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 toxicodynamics; 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 course should have a good grasp of human bioscience. Assumed knowledge relates to course HUBS1410.

OHSE2120  Occupational Hygiene & Toxicology II  
Units: 10  
Locations: Callaghan  
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 'population' issues in occupational health.  
Assumed Knowledge: OHSE1210.
OHSE2130 Occupational Hygiene & Toxicology I (DL)
Units: 10
Locations: Off Campus
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: toxicokinetics and toxicodynamics; 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 control of environmental pollutants; conducting and reporting on hygiene surveys. This course is taught by distance learning.
Assumed Knowledge: Students undertaking this course should have a good grasp of human bioscience. Assumed knowledge relates to course HUBS1401.

OHSE2140 Occupational Health III (DL)
Units: 10
Locations: Off Campus
Restricted to overseas students.
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. This course is offered by distance learning.
Assumed Knowledge: OHSE1120 or equivalent.

OHSE2210 Safety Technology I
Units: 10
Locations: Callaghan
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: Courses OHSE1210 and OHSE1220 encompass basic physical principles which are assumed knowledge for this course.

OHSE2220 Safety Technology II
Units: 10
Locations: Callaghan
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: Courses OHSE1210 and OHSE1220 encompass basic physical principles which are assumed knowledge for this course.

OHSE2310 Occupational Health and Safety Management II
Units: 10
Locations: Callaghan
Offers an introduction to the discipline of industrial relations with a 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 issues associated with OHS. 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
Units: 10
Locations: Callaghan
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: n/a

OHSE2330 Ergonomics for OHS (DL)
Units: 10
Locations: Off Campus
Restricted to overseas students.
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. This course is offered by distance learning mode.
Assumed Knowledge: n/a

OHSE2430 Occupational Health and Safety Practice III
Units: 10
Locations: Callaghan
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: OHSE1430

OHSE2440 Occupational Health & Safety Practice IV
Units: 10
Locations: Callaghan
Each student is required to find a workplace in the Hunter Region where she/he can work unpaid in an OHS function, for a minimum of 40 hours. Each student prepares a learning contract with the Discipline and works under the supervision of a member of academic staff in the Discipline and a local workplace supervisor. The student is expected to reflect on the contribution of the experience to professional and general development.
Assumed Knowledge: OHSE1430

OHSE2610 OHS Practice
Units: 10
Locations: PSB Singapore
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

OHSE2630 Occupational Health
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Provides 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: Nil

OHSE2640 Hygiene & Toxicology I
Units: 10
Locations: PSB Singapore
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 toxicodynamics; 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: ENVNS2620 Biosciences for EOHS

OHSE2720 Ergonomics for OHS
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. 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: Nil

OHSE2730 Occupational Safety
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Considers the fundamental principles and practice of chemical, fire and explosion, electrical, machinery and construction safety, with reference to Singapore OHS legislation.
Assumed Knowledge: Nil

OHSE2740 EOHS Management I
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Considers the theories and ideas underlying management and organisational behaviour. Supporting tutorials provide exposure to the more practical aspects of work in organisations. The course 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.
Assumed Knowledge: Nil

OHSE3040 Environmental Health
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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 OHSE3129).
Assumed Knowledge: OHSE2120 or equivalent.

OHSE3210 Safety Technology III
Units: 10
Locations: Callaghan
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

OHSE3310 OHS Management III
Units: 10
Locations: Callaghan
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 presented and analysed.
Assumed Knowledge: OHSE1310

OHSE3330 OHS Management III (Human Resource Management)(DL)
Units: 10
Locations: Off Campus
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.
Assumed Knowledge: OHSE1310

OHSE3410 OHS Practice V
Units: 10
Locations: Callaghan
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 the functions of international organisations, such as ILO and WHO and examines the role of Australia in OH&S development overseas.
Assumed Knowledge: N/A

OHSE3620 Epidemiology & Environmental Health
Units: 10
Locations: PSB Singapore
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: ENVIE3290 Biosciences for EOHS

OHSE3630 Hygiene & Toxicology II
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Enhances the knowledge and skills acquired in Hygiene & Toxicology I and relates them to the practice of occupational and environmental hygiene in the field, to the toxicological evaluation of chemicals and to hazardous substances risk assessment.
Assumed Knowledge: OHSE2640 Hygiene & Toxicology I

OHSE3640 Research Methods in EOHS
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Introduces students to the nature of research and how to start conducting research. Students work in small groups or individually to write a protocol for a research project. The research protocol presents the research question in an organised and systematic format and clearly outlines what is to be done so others can judge its merits fairly.
Assumed Knowledge: OHSE3620 Epidemiology and Environmental Health

OHSE3710 International Perspectives on EOHS
Units: 10
Locations: PSB Singapore
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

OHSE3720 EOHS Law
Units: 10
Locations: PSB Singapore
The course is only offered externally in Singapore. Provides the essential legal framework for students to understand the law functions, both as a tool to improve the environment and health and safety, and as part of the background against which other techniques for improvements must operate. It provides a sound knowledge of the specific discipline of law as it relates to environmental and occupational health and safety and outlines the major pieces of legislation governing environmental planning, environmental and public health, and occupational health and safety. It assists students in understanding the role of decision-making in EOHS and contributes to students’ analytical, problem solving and written communication skills.
Assumed Knowledge: Nil

OHSE3730 Management (DL)
Units: 10
Locations: Off Campus
This course is only offered externally in Singapore. Considers EOHS management within a strategic and tactical human resource management (HRM) framework with special reference to the South East Asian context. Students learn how EOHS interacts with the values and assumptions and functional aspects of HRM. In addition special topics on contemporary developments in HRM are presented and analysed.
Assumed Knowledge: OHSE2740 EOHS Management I

OHSE3740 Risk Assessment & Management
Units: 10
Locations: PSB Singapore
This course is only offered externally in Singapore. Develops knowledge and skills in risk assessment and management, as required for effective occupational health, safety & environment practice. It includes the application of adult learning principles to the development of EOHS training; accident theories in the analysis of accident causation; accident investigation techniques; inspections and audits, and practical approaches to risk assessment and risk management, including disaster and emergency planning.
Assumed Knowledge: Nil

OHSE3750 Occupational Health
Units: 10
Locations: Off Campus
Illustrates some aspects of the structure and function of the human body and goes on to look at the way hazards in the workplace can affect the body (diseases and injuries). Includes an introduction to the health services required to address these problems and the particular problem faced by certain groups of workers.
Assumed Knowledge: Nil

OHSE3760 Occupational Hygiene & Toxicology
Units: 10
Locations: Off Campus
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 course is offered in distance learning mode only.
Assumed Knowledge: Students undertaking this course should have a reasonable grasp of human bioscience. Advice on how to obtain information on human bioscience is provided for the benefit of students from non-biological backgrounds.

OHSE3770 Safety Technology
Units: 10
Locations: Off Campus
Investigates the scientific aspects of safety. There are two equal parts - Chemical Safety and Physical Safety, with an emphasis on the principles underlying safety requirements and applications.
Assumed Knowledge: Nil, however, some acquaintance with Chemistry and Physics could be helpful.
OHSE6040 Ergonomics
Units: 10
Locations: Off Campus
Introduces the student to the scope of ergonomics and the application of ergonomic principles to workplace design and work organisation.
The course is organised in modules which deal with the aspects: psychological, management, physiological, anatomical and biomechanical, environmental and workplace aspects.
Assumed Knowledge: OHSE6010, OHSE6020, OHSE6030, OHSE6080.

OHSE6050 Current Practice in Occupational Health and Safety
Units: 10
Locations: Off Campus
Focuses on current practice in OHS by examining models designed to relate to an important theoretical or practical area of OHS practice. The modules are:
1. Disaster and Emergency Planning;
2. Accident Prevention Theory;
3. Accident Statistics;
4. Safety Auditing;
5. OHS Management systems;
Assumed Knowledge: OHSE6010, OHSE6020, OHSE6030, OHSE6080 plus practical experience and competence in the OHS field. This course OHSE6050 is usually the 6th course studied (out of 8) for the Graduate Diploma.

OHSE6070 Management for Occupational Health and Safety
Units: 10
Locations: Off Campus
Provides a study of the industrial relations, organisational and management environment and risk management requirements for successful Occupational Health and Safety management.
Assumed Knowledge: OHSE6010, OHSE6020, OHSE6030, OHSE6040, OHSE6080, OHSE6050.

OHSE6080 Law for Occupational Health & Safety
Units: 10
Locations: Off Campus
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 employer/employee relationship; Tort liability: Negligence, Breach of Statutory Duty; the Occupational Health and Safety Act 1983 (NSW) and related legislation; an introduction to the principles of Workers' Compensation; issues in litigation and OH&S and anti-discrimination laws. This course is taught by distance education.
Assumed Knowledge: The course assumes no prior knowledge of law.

OHSE6090 Research in Occ Health & Safety
Units: 10
Locations: Off Campus
Introduces research aspects of occupational health and safety. As much of the research in OHS (at least as far as people are concerned) uses epidemiology, this is the focus of the course. Statistics are part of research and are introduced in the course with an emphasis on practical statistics to help in the workplace or help students to understand the literature. The course also covers some other research methods and critical appraisal of the literature.
Assumed Knowledge: Nil

OHSE6100 OHS Thesis Protocol
Units: 10
Locations: Off Campus
Develops and prepares students for a small research study to be carried out for their Thesis in OHS.
Assumed Knowledge: OHSE6090 or equivalent.

OHSE6110 OHS Thesis 1
Units: 10
Locations: Off Campus
Extends the study that students have devised in OHSE6100. The major component is a literature review.
Assumed Knowledge: OHSE6100 and OHSE6090 or equivalent.

OHSE6120 OHS Thesis 2
Units: 20
Locations: Off Campus
Completes the Thesis in OHS, following the OHSE6100 Protocol Development and OHSE6110, the first part of the thesis.
Assumed Knowledge: OHSE6100, OHSE6110 required.

PHIL1020 Introduction to Philosophy A
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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.

PHIL3020 METAPHYSICS
Units: 20
Locations: Callaghan
Metaphysics is one of the main branches of philosophy. This course surveys the main problems and areas of metaphysics.
Assumed Knowledge: 10 units of PHIL courses at 1000 level, or 40 units of any courses at any level.

PHIL3030 Reason and Religion
Units: 10
Locations: Callaghan
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.

PHIL3120 Philos & Film
Units: 10
Locations: Callaghan
Introduces students to an appreciation and critical appraisal of the way in which central philosophical issues are treated in feature films and in turn illuminate the nature of film.
Assumed Knowledge: Either 10 units of Philosophy, English or Film courses at 1000 level, or 40 units of any courses at any level.

PHIL3260 PHILOSOPHY OF LANGUAGE
Units: 10
Locations: Callaghan
Philosophy of Language has played a crucial role in much recent philosophy. The course surveys this increasingly influential area of philosophy.
Assumed Knowledge: 10 units of PHIL courses at 1000 level, or 40 units of any courses at any level.

PHIL3420 CRITICAL THINKING
Units: 10
Locations: Callaghan
One set of skills required in any occupation are those of critical thinking and of evaluating the logical status of arguments. How can we tell the difference between valid and invalid arguments? How do we go about constructing arguments which we can know to be valid? These are the questions that form the focus of the course. The course is specifically designed to impart to students skills tested in the Graduate Skills Assessment Test.
Assumed Knowledge: NIL
PHIL3460 PHILOSOPHY AND HUMAN RELATIONSHIPS
Units: 10
Locations: Callaghan
This course involves discussion of philosophical issues raised by our relations to other people. Such issues may include: Does happiness depend on not caring only about oneself; and if so, why? What is love? Is love not love which alters when it alteration finds? How, if at all, does friendship differ from love, and is happiness possible at? What is the value, if any, of casual social arrangements, and involvement in wider society?
Assumed Knowledge: At least 10 units of PHIL subjects at 1000 level, or 40 units of any subjects at any level.

PHIL3511 Moral Theory: History and Problems
Units: 20
Locations: Callaghan
This course studies a number of important approaches in moral philosophy, including utilitarianism, Kantianism, and virtue ethics. Other matters discussed are the basic data that the moral philosopher has to take into account in constructing a philosophy of ethics, the conflict between subjectivist and objectivist views of the moral order, and the question of moral relativism.
Assumed Knowledge: At least 10 credit points of PHIL courses at 1000 level or 40 credit points of any other course at any level.

PHIL3580 Ethical Issues
Units: 10
Locations: Callaghan
The course introduces students to a range of practical ethical issues, and to techniques for dealing in general with moral problems and moral dilemmas they may encounter in their professional and personal lives. The course has two strands, one designed for students of Social Work, the other for students with an interest in more general practical ethics.
Assumed Knowledge: 40 credit points at 1000 level.

PHIL3720 PHILOSOPHY OF COGNITIVE SCIENCE
Units: 10
Locations: Callaghan
A critical analysis of contemporary cognitive science models of mind, especially computational (mind as computer software) and connectionist (mind as network correlation detector) models and their philosophical and scientific assumptions.
Assumed Knowledge: 60 Credit Points of successfully completed courses.

PHIL3821 ENLIGHTENMENT AND ITS DISCONTENTS
Units: 20
Locations: Callaghan
This course introduces students to the 18th century Enlightenment and some of the important contemporary debates regarding modernity sparked by 20th century criticisms of the Enlightenment and its legacy.
Assumed Knowledge: At least 10 credit points of PHIL courses at 1000 level or 40 credit points of any other courses at any level.

PHIL3910 Technology and Human Values
Units: 10
Locations: Callaghan
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: 60 units of successfully completed subjects

PHIL3930 Human Values & Commercial Prac
Units: 10
Locations: Callaghan
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
Units: 10
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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.
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
Units: 20
Locations: Callaghan
Studied in conjunction with PHIL 405, PHIL 407 and PHIL 408, 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 courses, or equivalent, plus qualification for entry to the B.A. pass degree, or equivalent.

PHIL4070 Philosophy Honours III
Units: 20
Locations: Callaghan
Studied in conjunction with PHIL 405, PHIL 406 and PHIL 408, 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.

PHIL4080 Philosophy Honours IV
Units: 20
Locations: Callaghan
Studied in conjunction with PHIL 405, PHIL 406 and PHIL 408, 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.

PHIL6910 Technology and the Environment
Units: 10
Locations: Callaghan
Develops an understanding of a systematic approach to policy making and an awareness of how non-technical dimensions, including ethical, spiritual, social, political and economic issues, can arise, and should be systematically treated, in technological and management decisions, particularly in relation to systemic biophysical evaluation and the nature of norms as design constraints in socio-political contexts.
Assumed Knowledge: Qualification for entry to the Diploma or Master of Environmental Studies, or equivalent.

PHIL6920 Tech. Human Values and Enviro
Units: 10
Locations: Callaghan
Develops an understanding of a systematic approach to policy making and an awareness of how non-technical dimensions, including ethical, spiritual, social, political and economic issues, can arise, and should be systematically treated, in technological and management decisions, particularly in relation to systemic biophysical evaluation and the nature, assessment and control of technology.
Assumed Knowledge: Qualification for entry to the Diploma or Master of Environmental Studies, or equivalent.

PHIL6930 Business, Ethics and Values
Units: 10
Locations: Callaghan
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 form of professional ethics flowing from that system.
Assumed Knowledge: Qualification for entry to postgraduate degrees of the Graduate Business School.

PHTY1010 Physiotherapy I
Units: 20
Locations: Callaghan
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

PHTY1020 Physiotherapy II
Units: 20
Locations: Callaghan
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: PHTY1010 - Physiotherapy I
PHYS1200 Introductory Physics  
Units: 10  
Locations: Central Coast  
Physics underpins most aspects of modern technology and medicine, and developments in physics often drive social change. Two examples include the development of electromagnetic wave theory, which led to radio power, radio and television, and atomic physics, which resulted in computers, microchips and computers, nuclear medicine and radiation treatment of cancer. This course provides an overview of topics in physics that are of particular importance to life and medical sciences and aspects of engineering. The course is non-calculus based and covers mechanics, motion, friction, work, energy, electricity and magnetism, heat, nuclear and radiation physics, fluid mechanics, and waves.  
Not to count with PHYS1100, PHYS1110, PHYS1130, PHYS1150 or PHYS1210  
Assumed Knowledge: Mathematics with a result in Bands 5 or 6, or a pass in MATH1100.

PHYS1210 Advanced Physics I  
Units: 10  
Locations: Callaghan  
Central Coast  
Physics underpins most aspects of modern engineering, technology, and medicine, and developments in physics often drive social change. Knowledge of physics is therefore vital to understanding the world around us. Physics is needed to make new materials, monitor our environment, put satellites into orbit, harness energy, determine the strength of structures, take scans of the human body, develop faster computers, etc. This course examines some of the core topics in physics essential for further studies in physical science and technology. The course is calculus-based and covers mechanics and kinematics, special relativity, thermodynamics, wave mechanics, nuclear physics, particle physics and cosmology.  
Not to count with PHYS1100, PHYS1110, PHYS1150 or PHYS1210  
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  
Units: 10  
Locations: Callaghan  
Central Coast  
Physics underpins most aspects of modern engineering, technology, and medicine. For example, about 25% of the world's economy is tied to the quantum mechanics of silicon, and many of the most important practical advances in chemistry and biology can be traced to the precise understanding of the behavior of atoms and molecules provided by quantum mechanics. Knowledge of physics is therefore vital to understanding the world around us. This calculus-based course continues on from PHYS1210 and covers the topics of mathematical tools, electricity and electromagnetism, optics, atoms and molecules, and quantum mechanics.  
Not to count with PHYS1120, PHYS1140 or PHYS1160  
Assumed Knowledge: Mathematics Extension 1 with a result in Bands 3 or 4. It is also recommended that students have undertaken Physics and achieved a result in Band 5 or 6.

PHYS210 Introductory Astronomy  
Units: 10  
Locations: Callaghan  
Astronomy is vital and exciting because it extends the frontiers of knowledge. As a science, astronomy has two important roles. It provides us with a clearer picture of our place in the universe, and it stimulates the development of new technology, much of which ultimately finds practical application. This course covers both aspects. Topics covered include astronomical coordinates and measurement, instrumental techniques, the solar system, the structure and life cycle of the sun and other stars, clusters, quasars, pulsars, and cosmology. The laboratory exercises and tutorials emphasize modern applications, and a viewing night and field trip are included.  
Assumed Knowledge: There is no assumed knowledge for this course although a basic understanding of physics and mathematics at the HSC level would be beneficial.

PHYS210 Modern Optics  
Units: 10  
Locations: Callaghan  
Many modern instruments and technologies are based on the optical principles described in this course. These include diffraction and interference theory (important for precise measurement of very small and very large distances), optical fibres, holography, polarization, the operation of lasers and photon detectors, and laser applications in industry and research. Optical fibres and laser diodes are at the heart of the communications revolution that is reshaping the way we live, interact with each other and conduct business. This course is compulsory for BSc photonics students and highly recommended for BSc students who wish to understand these forces that are changing their world.  
Assumed Knowledge: PHYS1220
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.

Not to count for credit with PHYS2130, PHYS2140 or ELEC2200

Assumed Knowledge: Students attempting this course should have already completed PHYS1210 and PHYS1220, or their equivalent. They should also have completed MATH1110 or MATH1210, and MATH1120 or MATH1220.

PHYS2190  Mathematics of Physical Systems
Units: 10
Locations: Callaghan
Mathematics is fundamental to the physical sciences and engineering. This course introduces a range of mathematical topics that are essential in these areas. These include Fourier series and transforms, the Sturm-Liouville theory, separation of variables and special functions, eigenvalues and eigenfunctions, and rigid body dynamics. For example, Fourier transforms are the basis for many data analysis and signal processing techniques. The course includes physical applications but also provides a mathematical basis for further study in physics at the 3000 level. The course will also be important for those with a more general interest in the applicability of mathematics.

Not to count for credit with PHYS2110 or PHYS3220

Assumed Knowledge: PHYS1210, PHYS1220 and MATH1220, or their equivalent.

PHYS2200  Nuclear Physics and Applications
Units: 10
Locations: Callaghan
Nuclear physics is the basis of medical diagnostic procedures, is essential for treating cancer, is fundamental in many areas of industry, food technology, and environmental monitoring, and produces a significant fraction of the world's energy. At the same time, there is intense debate over nuclear safety issues. Only by understanding the principles of nuclear physics can informed argument be advanced to contribute to this debate. This course outlines concepts and theories of nuclear physics with a strong emphasis on their application in the real world. Topics include nuclear reactions, radiation effects, dosimetry, nuclear medicine, applications in industry, and nuclear power.

Not to count with PHYS3180 Nuclear Physics

Assumed Knowledge: PHYS1200, PHYS1210 or PHYS1220. In each case the relevant aspects are the nuclear physics components of these courses.

PHYS2210  Optical and Semiconductors Devices
Units: 10
Locations: Callaghan
Optical instruments from cameras and telescopes to photocopying 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.

Not to count with PHYS2170 or ELEC2200

Assumed Knowledge: PHYS1410 or PHYS1220, ELEC1300 and ELEC1700

PHYS2220  Quantum Mechanics and Electromagnetism
Units: 10
Locations: Callaghan
Provides an introduction to the basic concepts in electromagnetism and 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. The laws of electromagnetism govern the behaviour and interaction of electric and magnetic fields which are fundamental to many modern technologies such as lasers, TV and radar. The purpose of this course is to provide an understanding of these physical laws. The course introduces students to the basic concepts and ideas in electromagnetism and gives them the tools to quantitatively investigate electromagnetic phenomena.

Assumed Knowledge: PHYS1220 and concurrent enrolment in MATH2310

PHYS2230  Optical Design and Optoelectronic Materials
Units: 10
Locations: Callaghan
Optical instruments from cameras and telescopes to photocopying and optical fibres are used extensively in our society. The first half of this course will introduce students to the use of the OSLO computer package to design optical systems with improved optical properties, such as minimised spherical and chromatic aberrations or maximised reflectivity. The second half of this course will outline the properties and applications of non-linear optical materials. The properties of optical and electronic materials find application in many instruments and systems important for modern society. Non-linear optical properties such as the Kerr, Faraday and acousto-optical effects are used in photoreceivers and lasers, and birefringence and polarisation are important aspects of optical fibre design.

Assumed Knowledge: Phys1220

PHYS3200  Solid State and Surface Physics
Units: 10
Locations: Callaghan
Many of the recent advances in physics that are central to our understanding and use of advanced technologies, are in the areas of solid state and surface physics. This course covers the development of theories of perfect crystals and their electronic structure, and the theoretical and experimental methods for studying metal and semiconductor surfaces. The course is essential for, and only available to, students enrolled in the Bachelor of Engineering (Mechanical) and Bachelor of Science combined degree program.

Assumed Knowledge: PHYS2180 or (PHYS2101 or PHYS2140, and PHYS2130) and Math2310 or Math2430

PHYS3260  Computer Modelling for Physical Scientists
Units: 10
Locations: Callaghan
Considers the use of computers in the modelling of systems drawn from a wide variety of different disciplines. Discussion will focus around the different types of moddeling, and the main techniques appropriate to each. Applications of the techniques will form a major part of the course with especial emphasis being placed on the physical sciences.

Assumed Knowledge: 40 units of 2000 level science and Mathematics

PHYS3290  Special Relativity
Units: 10
Locations: Callaghan
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.

Offered in EVEN years.

Assumed Knowledge: A minimum of 1000 level physics and 2000 level mathematics is required.

PHYS3300  Lasers
Units: 10
Locations: Callaghan
Lasers are essential instruments in modern technology, ranging from remote sensing, communications, printers, scanners and CD players, to microsurgery. This is an advanced course in the design of lasers, concentrating on systems for optical communications, printers, scanners and CD players. The rapidly expanding use of the internet has led to an explosion in demand for such high speed data communications. This advanced course covers 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

PHYS3320  Optical Communications
Units: 10
Locations: Callaghan
Much of modern telecommunications rests on the ability to send multiple communications channels along a single optical fibre. The rapidly expanding use of the internet has led to an explosion in demand for such high speed data communications. This advanced course covers 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
Units: 10
Locations: Callaghan
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, PHYS2210
The course comprises the second part of a research project commenced in PHYS3401. 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 and by writing a mini thesis. This course can only be undertaken as a sequel to the course PHYS3401 Research Project - Part 1.

**Assumed Knowledge:** Coursework relevant to the selected project.

**PHYS3500** Adv. Electromagnetism for Scientists and Engineers

Units: 10
Locations: Callaghan

The laws governing the behaviour and interaction of electric and magnetic fields are fundamental to the implementation of many technologies in electrical, computer and telecommunications engineering, and are essential for an understanding of information transmission via wired links, radio channels, and optical fibre networks. This advanced course in electromagnetism covers the topics of electrostatics, magnetostatics, fields and waves, and transmission lines and antennas, at a level to meet the needs of science, engineering and photonics students. Not to count with PHYS2220, PHYS2150, PHYS3270, PHYS3510 or ELEC4540.

**Assumed Knowledge:** PHYS1210, PHYS1220 and MATH2310(or MATH2010), or equivalent.

**PHYS3510** Advanced Waveguides and Laser Cavities

Units: 10
Locations: Callaghan

Provides an advanced understanding of the physical laws which govern the behavior and interaction of electric and magnetic fields, and their direct application to the area of communications - in particular waveguides, cavities and antennas. 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:** PHYS2220 Quantum Mechanics and Electromagnetism

**PHYS3900** Specialist Topics in Physics

Units: 10
Locations: Callaghan

This course allows students to select course components from current course offerings which are relevant to their program of study. This particular applies to students whose program may have been affected by the amalgamation of 5 unit courses in 2002. Students must seek the approval of the Head of discipline before enrolling in this course.

**Assumed Knowledge:** A major in Physics with a Credit grade average in at least 40 credit points of 3000 level physics subjects.

**PHYS4120** Physics Honours 4210

Units: 20
Locations: Callaghan

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. 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 3000 level physics subjects.

**PHYS4120** Physics Honours 4210

Units: 20
Locations: Callaghan

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. 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 3000 level physics subjects.
PHYS4220  
**Physics Honours 422**

**Units:** 20  
**Locations:** Callaghan  

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. 

**Assumed Knowledge:** A major in Physics with a Credit grade average in at least 40 credit points of 500 level physics subjects.

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PHYS6910  
**Foundations of Modern Physics**

**Units:** 20  
**Locations:** Callaghan  

Aims to provide students with an understanding of physics at a senior level in preparation for advanced specialist study. Students will select topics that are relevant to their interests and proposed research project.  

**Assumed Knowledge:** The minimum entry requirement is an undergraduate degree, or other approved qualifications and experience.

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PHYS6920  
**Topics in Modern Physics**

**Units:** 20  
**Locations:** Callaghan  

This unit is an extension of PHYS6910 and allows students to study further selected topics in physics at a senior level. This unit will enable students to develop an understanding of the basic concepts underlying these topics which will be important in formulating and developing their research project, and in their future application and practice of physics.  

**Assumed Knowledge:** PHYS6910

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PHYS6930  
**Advanced Topics in Physics**

**Units:** 20  
**Locations:** Callaghan  

This unit allows students to study selected topics in physics at an advanced level. Students will be able to develop an understanding of the basic concepts which will be important in the formulation and development of their research project, and in their future application and practice of physics.  

**Assumed Knowledge:** PHYS6920

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PHYS6940  
**Research Developments in Physics**

**Units:** 20  
**Locations:** Callaghan  

This unit aims to introduce students to advanced topics in physics that are relevant to contemporary physics research. Students will undertake topics within the area of their proposed project so as to develop an understanding of the physical concepts that are both important and relevant to the pursuit of their research project.  

**Assumed Knowledge:** PHYS6930

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PHYS6950  
**Project I**

**Units:** 20  
**Locations:** Callaghan  

This unit allows students to apply the knowledge and skills that they have gained from their studies in the earlier units PHYS6910-6940. In this unit, together with PHYS6960, students undertake a research project in an area of interest under the supervision of an academic member of staff.  

**Assumed Knowledge:** PHYS6940

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PHYS6960  
**Project II**

**Units:** 20  
**Locations:** Callaghan  

This unit allows students to complete a research project in an area of interest under the supervision of an academic member of staff. The work undertaken in this unit is an extension of that initiated in PHYS6950.  

**Assumed Knowledge:** PHYS6950

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POLI1010  
**Australian Politics and Government**

**Units:** 10  
**Locations:** Callaghan  

Examines the nature of politics and government in Australia. It examines the political institutions and machinery of government and the political system, as well as the relationships between the political actors and political activity in Australia. Topics discussed include the federal nature of national politics, the constitution, parliament, the High Court, political parties, the public service, and pressure groups (including the role of the media). Throughout the course key political issues will also be examined.  

**Assumed Knowledge:** Nil

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POLI1020  
**Introduction to Politics**

**Units:** 10  
**Locations:** Callaghan  

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 those of right and wrong 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.  

**Assumed Knowledge:** Nil

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POLI2050  
**Political Theory and Social Change**

**Units:** 10  
**Locations:** Callaghan  

This course examines the relationship between political ideas and social change by focusing on the twin questions: does political theory stimulate social change or does social transformation shape political thought? The context for the course will be the post-1940s theories of a number of political theorists and the discourses that emerged in the latter half of the twentieth century, especially those of post-Marxists and postmodernists over the relationship between ideas and social change, theory and practice, and emancipatory social movements and postindustrial society. Not available to students who have already passed or are currently enrolled in POLI3050.  

**Assumed Knowledge:** 10 units in Politics at 1000 level or 30 units at 1000 level.

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POLI2070  
**International Relations**

**Units:** 10  
**Locations:** Callaghan  

This course examines the relationship between political ideas and social change by focusing on the twin questions: does political theory stimulate social change or does social transformation shape political thought? The context for the course will be the post-1940s theories of a number of political theorists and the discourses that emerged in the latter half of the twentieth century, especially those of post-Marxists and postmodernists over the relationship between ideas and social change, theory and practice, and emancipatory social movements and postindustrial society. Not available to students who have already passed or are currently enrolled in POLI3070. Lectures also available on the web.  

**Assumed Knowledge:** 10 units in Politics at 1000 level or 30 units at 1000 level.

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POLI2130  
**Principles of Public Policy**

**Units:** 10  
**Locations:** Callaghan  

Provides students with a broad introduction and overview of the study of international relations, including key themes and concepts. It examines the institutions and processes which shape international relations between states. It investigates the role of the United Nations, human rights, War Crimes Tribunals and superpower relations in shaping the global order. It considers issues arising from the end of the Cold War, the breakdown of the Soviet Union, and the rise of a more ‘anarchic’ relationship between nation states. It also focuses on the events of September 11 and their aftermath. Not available to students who have already passed or are currently enrolled in POLI3130. Lectures also available on the web.  

**Assumed Knowledge:** 10 units in Politics at 1000 level or 30 units at 1000 level.

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POLI2140  
**The Politics of Globalisation**

**Units:** 10  
**Locations:** Callaghan  

Globalisation is now a pervasive phenomenon in everyone’s lives. This course provides students with a theoretical and practical understanding of the phenomenon of globalisation. It looks at theories of globalisation and political responses to globalisation. In particular, it considers the way globalisation has impacted on national states, and how states have combined at an international level to counter these effects. Not available to students who have already passed or are currently enrolled in POLI3140. Lectures also available on the web.  

**Assumed Knowledge:** 10 units in Politics at 1000 level or 30 units at 1000 level.

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POLI3050  
**Political Theory and Social Change**

**Units:** 10  
**Locations:** Callaghan  

This course examines the relationship between political ideas and social change by focusing on the twin questions: does political theory stimulate social change or does social transformation shape political thought? The context for the course will be the post-1940s theories of a number of political theorists and the discourses that emerged in the latter half of the twentieth century, especially those of post-Marxists and postmodernists over the relationship between ideas and social change, theory and practice, and emancipatory social movements and postindustrial society. Not available to students who have already passed or are currently enrolled in POLI2050.  

**Assumed Knowledge:** 10 units in Politics at 1000 level or 30 units at 1000 level.

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POLI3070 International Relations
Units: 10
Locations: Callaghan
Provides students with a broad introduction and overview of the study of international relations, including key themes and concepts. It examines the institutions and processes which shape international relations between states. It investigates the role of the United Nations, War Crimes Tribunals and superpower relations in shaping the global order. It considers issues arising from the end of the Cold War, the breakdown of the Soviet Union, and the rise of a more ‘anarchic’ relationship between nation states. It also focuses on the events of September 11 and their aftermath. Not available to students who have already passed or are currently enrolled in POLI2070. Lectures also available on the web.
Assumed Knowledge: 10 units in Politics at 1000 level or 30 units at 1000 level.

POLI3130 Principles of Public Policy
Units: 10
Locations: Callaghan
Provides students with an understanding of the public process within liberal democratic governments and states, with a specific focus on Australia. It begins with an overview of the debates about the nature and scope of public policy, the various conceptual frameworks within which public policy can be interpreted and understood, and the complex relationships between public policy and government. The course highlights the essentially contested nature of the public policy process, and the postulated context within which public policy formulation and administration invariably takes place. Not available to students who have already passed or are currently enrolled in POLI2130.
Assumed Knowledge: 10 units in Politics at 1000 level or 30 units at 1000 level.

POLI3140 The Politics of Globalisation
Units: 10
Locations: Callaghan
Globalisation is now a pervasive phenomenon in everyone’s lives. This course provides students with a theoretical and practical understanding of the phenomenon of globalisation. It looks at theories of globalisation and political responses to globalisation. In particular, it considers the way globalisation has impacted on national states, and how states have combined at an international level to counter these effects. Not available to students who have already passed or are currently enrolled in POLI2140. Lectures also available on the web.
Assumed Knowledge: 10 units in Politics at 1000 level or 30 units at 1000 level.

PSYC1010 Psychology Introduction 1010
Units: 10
Locations: Central Coast
Forms part of an Australian Psychology Society accredited sequence.
What is it that makes people do the things they do? Welcome to the fascinating world of Psychology: the scientific study of human behaviour. This course introduces students to the many factors which influence their own behaviours. From the moment of conception, we are influenced by our mothers actions; her diet, her activities and even her emotions. Follow the shaping of human behaviour from those early influences through the socializing years where family, groups and culture play a role in the formation of the personality. Finally, we look at what makes “Abnormal” behaviour and introduce students to some of the symptoms and treatments of mental illness.
Assumed Knowledge: Nil

PSYC1020 Psychology Introduction 1020
Units: 10
Locations: Central Coast
Forms part of an Australian Psychological Society accredited sequence.
What else makes people do the things they do? Return to the fascinating world of Psychology: the scientific study of human behaviour. This course introduces students to the mechanisms the brain uses to produce behaviours. Are we simply responding to our world with a set of simple reflexes (conditioned through experience) or simple emotions we share with many other animal species? How much of what we perceive through our senses is represented in our mind without being distorted? How can we keep track of the immense amount of information our brain encounters each day? In this course we begin to dissect the very mechanisms of human behaviour.
Assumed Knowledge: PSYC1010

PSYC1030 General Psychology
Units: 10
Locations: Central Coast
This course is not part of an Australian Psychological Society accredited sequence. As the content of PSYC1030 overlaps with both PSYC1010 and PSYC1020, 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 2000 and 3000 level and also provides students who do not intend to proceed further in Psychology with a general appreciation of psychology.
Assumed Knowledge: None

PSYC1200 Pre-professional Psychology I
Units: 10
Locations: Callaghan
This course is a compulsory component of the Bachelor of Psychology program, and is an APS accredited course.
Lectures, workshops and practical sessions will provide 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, and in particular, the important ethical issues that a psychologist faces in a variety of work settings.
Assumed Knowledge: Nil

PSYC2020 Basic Processes
Units: 10
Locations: Callaghan
Forms part of an Australian Psychological Society accredited sequence. Examines psychological processes such as perception, memory, selective attention and human information processing. Laboratory exercises are used to demonstrate these basic psychological processes.
Assumed Knowledge: PSYC1020

PSYC2070 Experimental Methodology
Units: 10
Locations: Callaghan
Forms part of an Australian Psychological Society accreditation sequence. An understanding of experimental research methodology and statistics as an important methodological tool is fundamental to the behavioural scientist. This course 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.
Assumed Knowledge: PSYC1020 or PSYC1020C, SCIM1010

PSYC2080 Introduction to Psychobiology
Units: 10
Locations: Callaghan
Forms part of an Australian Psychological Society accredited sequence. Examines the biological bases of psychology. Includes: neuroanatomy, psychobiology and neuroscience, and examines their relevance to psychology. The laboratory program aims to embellish the lecture material, to cover additional practical topics and to introduce students to research methods in psychology.
Assumed Knowledge: PSYC1020

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Assumed Knowledge: Nil

Problems of both males and females are based in psychological, not medical, causes. This outperforms the psychological factor of expectancy, second the most common sexual pharmacology. Industry has to carefully test every drug it produces to show it can work.

First, the human capacity for self-healing is so great that the multi-billion dollar research and counseling in both areas. Two examples give a hint as to why this is the case. It may come as a surprise to learn that psychologists have led the way in this area.

When it comes to mind-body phenomena and human sexual experience, everyone is better about advanced research methodology.

Unit:

Assumed Knowledge: PSYC2020 and PSYC2070

Examines processes in cognitive psychology (the psychology of memory, language and thought) including such topics as memory, skill acquisition, decision making, and cognitive neuroscience. Students will critically evaluate research designs and develop a research proposal implementing sound research methodology and ethics principles.

Assumed Knowledge: PSYC3200

Introduction to Abnormal Behaviour

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. Students gain an introductory understanding of the nature of abnormal behaviour, including aetiology characteristics and symptoms. Also includes methods of behavioural evaluation and an introduction to therapeutic orientations and applications. Not to count with PSYC3760.

Assumed Knowledge: PSYC1030, PSYC1030, PSYC1020, PSYC1200

Advanced Foundations for Psychology

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. This course forms part of an Australian Psychological Society accredited sequence. Students receive comprehensive training in the use of a statistical package in order to analyse, interpret and present findings. Students will critically evaluate research design and development, and examine approaches to personality which have been contrasting but complementary answers to these questions. The course deals with issues in social psychology such as attitudes, the self, social influence, and group processes. Students also examine approaches to personality which have been influential in terms of theory, methodology and practical applications in clinical and occupational settings. Topics covered may include the trait, Freudian, humanist, and social cognitive approaches to personality.

Assumed Knowledge: PSYC1020

Pre-professional Psychology II

Units: 10

Locations: Callaghan

This is a compulsory component of the Bachelor of Psychology program and is an APS accredited course. "Intervention" to change human behaviour underpins much of the professional application of psychology. Psychologists employ a wide variety of strategies to facilitate behaviour change, and implement these intervention strategies across a range of levels. This course 'defines' intervention at six levels, and introduces students to principles and common intervention approaches across these six levels of intervention: individuals, families, couples, groups, organisations and populations.

Assumed Knowledge: PSYC1200

Advanced Basic Processes

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. Examines processes in cognitive psychology (the psychology of memory, language and thought) including such topics as memory, skill acquisition, decision making, and cognitive neuroscience. Students will critically evaluate research design and develop a research proposal implementing sound research methodology and ethics principles.

Assumed Knowledge: PSYC3200

Advanced Basic Processes 2

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accreditation sequence. Deals with advanced topics in behavioural neuroscience and psychology. Lecture material will be complemented by a tutorial program aimed at facilitating discussion about advanced research methodology.

Assumed Knowledge: (PSYC2070 or PSYC2070C) and (PSYC2080 or PSYC2080C)

Individual Processes

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. When it comes to mind-body phenomena and human sexual experience, everyone is interested and everyone has an opinion. Since they concern the experiences of normal people it may come as a surprise to learn that psychologists have led the way in research and counselling in both areas. Two examples give a hint as to why this is the case.

First, the human capacity for self-healing is so great that the multi-billion dollar pharmacology industry has to carefully test every drug it produces to show it can outperform the psychological factor of expectancy: second the most common sexual disruption. Behavioural disruption can encompass psychosis as experienced in schizophrenia, amnesia and other memory disorders, attentional disorders, “executive” dysfunction (problems in directing and monitoring behaviour) and disorders of perceptual function. The causes of brain disruption range over the nature/nurture spectrum and can be developmental, such as genetic disorders and/or acquired, such as brain injury.

Assumed Knowledge: PSYC1010, PSYC1020, PSYC2050, PSYC2020

Social and Organisational Psychology

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. The course deals with the discipline of organisational psychology. Issues that are covered may include intergroup relations in the workplace, communication, leadership and power, and organisational change.

Assumed Knowledge: (PSYC2070 or PSYC2070C) and (PSYC2090 or PSYC2090C)

Research Project Design

Units: 10

Locations: Callaghan

Forms part of an Australian Psychological Society accredited sequence. Prompts consist of an extensive review of the literature in an approved research area, 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 psychology Honours.

Assumed Knowledge: PSYC2070 and PSYC3010
for entry to fourth year psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3, and including PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

**PSYC4090A Research Project (Part A)**

**Units:** 20  
**Locations:** Callaghan  
**Forms part of an Australian Psychology Society accredited sequence.**  
This course gives you the opportunity to actively participate in the scientific investigation of mind and behaviour. Working within a small group of other students, you will be involved in the development, analysis, and presentation of a piece of original research under the supervision of a member of the academic staff member in the discipline of psychology. The course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. The course comprises one half of the final year of the BA(Psych) or BSc(Psych) degree programs.

**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 PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

**PSYC4090B Research Project (Part B)**

**Units:** 20  
**Locations:** Callaghan  
**Forms part of an Australian Psychology Society accredited sequence.**  
This course gives you the opportunity to actively participate in the scientific investigation of mind and behaviour. Working within a small group of other students, you will be involved in the development, analysis, and presentation of a piece of original research under the supervision of a member of the academic staff member in the discipline of psychology. The course is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence. The course comprises one half of the final year of the BA(Psych) or BSc(Psych) degree programs.

**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 PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

**PSYC4110 Psychology Honours 4110**

**Units:** 20  
**Locations:** Callaghan  
**Forms part of an Australian Psychology Society accredited sequence.**  
One half of the Honours level coursework. Students will examine advanced topics in psychology. Students complete (with PSYC4120) special topic seminar subjects. Each seminar provides depth of knowledge in a specific area, and overall PSYC4110 and PSYC4210 provide a broad view of Advanced Topics in Psychology. Includes professional training components for Bachelor of Psychology students.

**Assumed Knowledge:** Students must have satisfied the Faculty’s requirements for entry to fourth year Honours in psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

**PSYC4120 Psychology Honours 4120**

**Units:** 20  
**Locations:** Callaghan  
**Forms part of an Australian Psychology Society accredited sequence.**  
Is a 20 credit point research component of an 80 credit point Honours program in Psychology. The research component (PSYC4110 and PSYC4210) entails the development, conduct, analysis and reporting of a piece of original empirical research. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences.

**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 PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

**PSYC4210 Psychology Honours 4210**

**Units:** 20  
**Locations:** Callaghan  
**Forms part of an Australian Psychology Society accredited sequence.**  
Forms part of an Australian Psychology Society accredited sequence.

**PSYC4210** is one half of the Honours level coursework. Students will examine advanced topics in Psychology. Students complete (with PSYC4110) 4 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 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.
PSYC4220 Psychology Honours 4220
Units: 20
Locations: Callaghan
Forms part of an Australian Psychological Society accredited sequence.
PSYC4220 is a 20 credit point research component of an 80 credit point Honours program in Psychology. The research component (PSYC4120 and PSYC4220) entails the development, conduct, analysis and reporting of a piece of original empirical research. This research is carried out under the supervision of a member of the academic staff of the School of Behavioural Sciences.
Assumed Knowledge: Students must have satisfied the Faculty's requirements for entry to fourth year Honours in psychology, including completion of 120 credit points of approved psychology subjects in years 1, 2 and 3 and including PSYC1010, PSYC1020, PSYC2070, PSYC3010. SCIM1010 (or INFO1010 from 2003) is compulsory for students who commenced in 2000 or later.

PSYC6310 Research and Evaluation Methods
Units: 10
Locations: Callaghan
A core course for the Master of Applied Psychology.
Introduces students to some of the main approaches and paradigms used in the conduct of applied research and evaluation in the behavioural sciences. The approaches addressed include: survey methodology, laboratory-based experiment work, and qualitative methodologies. Students will explore conceptual and design considerations associated with each methodological approach, as well as gain insight into “real” research projects.
Assumed Knowledge: A pass in PSYC3120 or equivalent. Evidence of successful completion of a course focusing on research design and methodology.

PSYC6320 Principles of Counselling
Units: 10
Locations: Callaghan
One of four core courses for the Master of Applied Psychology.
Covers the major concepts and practices of contemporary therapeutic systems and addresses basic issues of professional counselling. Emphasis is on the regular practice and development of counselling skills in both an individual and group context.
Assumed Knowledge: Bachelor's Degree in Psychology

PSYC6330 Professional and Practical Issues
Units: 10
Locations: Callaghan
This course, one of four core courses for the Master of Applied Psychology, develops consultancy and professional skills pertinent to the practice of Psychology. As well as developing a clear understanding of regulatory guidelines, such as the NSW Registration Board’s Code of Ethics, the Australian Psychological Society’s Code of Ethics, and the Mental Health Act, a deeper exploration of the psychology of morality is undertaken with the aim of increasing the students’ ethical sensitivity. Professional teamwork, problem solving and other competencies of professional practice are developed through a series of problem-based learning tasks.
Assumed Knowledge: Four year undergraduate degree in Psychology

PSYC6340 Principles of Psychological Assessment
Units: 10
Locations: Callaghan
One of four core subjects for the Master of Applied Psychology.
Provides the contemporary theoretical basis, background information and practice skills in methods of assessment in the applied fields of psychology.
Assumed Knowledge: 4 year undergraduate degree in Psychology

PSYC6350 Adjustment to Chronic Illness
Units: 10
Locations: Callaghan
An elective subject for the Master of Applied Psychology.
Investigates psychological aspects of chronic illness. Covers an historical overview of models of health and illness, current theories of health psychology, and the application of the biopsychosocial approach to chronic illness.
Contact hours: 2 seminar/workshop hours per week.
Assumed Knowledge: Bachelor's degree in Psychology or equivalent.

PSYC6360 Lifespan Development and Health Related Behaviour
Units: 10
Locations: Callaghan
An elective course for the Master of Applied Psychology.
Introduces the differences in health related behaviours and attitudes at various stages of development as a means of understanding the different approaches required for intervention with people of different ages.
Assumed Knowledge: Bachelor's degree in Psychology

PSYC6370 Addictive Behaviours
Units: 10
Locations: Callaghan
An elective course for the Master of Applied Psychology.
Covers the appropriate responses to addictive behaviours required of psychologists working in applied settings. Includes client assessment and personalised feedback of assessment results, selection and application of appropriate intervention strategies and behaviour change maintenance.
Assumed Knowledge: Bachelor's degree in Psychology, PSYC632

PSYC6380 Applied Multicultural Psychology
Units: 10
Locations: Callaghan
An elective course for the Master of Applied Psychology.
The aim of this seminar series is to assist students towards a greater understanding of the role of cultural factors in professional practice in contemporary society. In whatever field of psychological practice they are engaged it is almost inevitable that psychologists will need to consider the specific needs, social backgrounds and cultural differences in relationships of clients from cultural backgrounds different from their own. Such clients may include recent immigrants and refugees, and members of ethnic and indigenous minorities, but also temporary sojourners such as overseas students and expatriate workers from foreign countries. Theoretical and methodological issues from cross-cultural research will be used as a basis for discussion.
Assumed Knowledge: Bachelor's Degree in Psychology

PSYC6390 Biopsychosocial Factors and Stress in the Wo
Units: 10
Locations: Callaghan
An elective course for the Master of Applied Psychology.
Explores stress, its sources and the way in which it affects health. Investigates both personal and social support factors that modify stress levels as well as particular conditions known to be associated with stress. Methods of coping with and reducing stress are also considered.
Assumed Knowledge: Bachelor's Degree in Psychology

PSYC6400 Human Factors and Individual Performance in the Wo
Units: 10
Locations: Callaghan
Introduces research and practical information on the design of a safe and productive workplace, including work performance, personal and career development, stress and health, leadership and team functioning, and the organisational environment. The methods include such as interviewing, questionnaires, focus groups, behavioural analysis, group assessment and personal profiling.
Assumed Knowledge: Bachelor's Degree in Psychology

PSYC6410 Social Assessment in Organisations
Units: 10
Locations: Callaghan
Looks at some of the methods of assessment of a variety of social factors in the workplace, including work performance, personal and career development, stress and health, leadership and team functioning, and the organisational environment. The methods include such as interviewing, questionnaires, focus groups, behavioural analysis, group assessment and personal profiling.
Assumed Knowledge: Bachelor's Degree in Psychology

PSYC6420 Social Psychology of Organisations
Units: 10
Locations: Callaghan
This is an elective subject for the Master of Applied Psychology.
In studying organisations, social scientists have tended to adopt either a “macro” or “micro” perspective, often without considering the possibility that organisational behaviour is frequently the product of a combination of the two, such as societal culture and personal needs. The very term “organisational behaviour” suggests this possibility. Similarly, social psychology is by definition uniquely formulated to adopt a requisite “meso” level perspective on behaviour in the workplace. This course is, therefore, designed to provide foundational coverage in those social processes that operate in all organisations, from industrial, to commercial, to service sectors.
Assumed Knowledge: Bachelor's Degree in Psychology or equivalent.

PSYC6430 Principles of Rehabilitation
Units: 10
Locations: Callaghan
This is an elective subject for the Master of Applied Psychology.
Examines the principles of rehabilitation, the rehabilitation process, models of rehabilitation service delivery and the psychological contexts of rehabilitation. Contact hours: 2 seminar/workshop hours per week.
Assumed Knowledge: Bachelor's Degree in Psychology, PSYC532

PSYC6440 Behavioural Dynamics
Units: 10
Locations: Callaghan
This is an elective course for the Master of Applied Psychology.
Examines how human behaviour changes over time, with examples from several different areas of applied psychology. Topics covered include an introduction to time series analysis and single case studies, behavioural change and techniques for the quantitative assessment of behavioural dynamics. Training in the application of data analysis computer packages is also provided.
Assumed Knowledge: Bachelor's Degree in Psychology or equivalent. An interest in statistics or mathematics will be an advantage.
PSYC6450  Topics in Organisational Psychology  
Units: 10  
Locations: Callaghan  
This is an elective course for the Master of Applied Psychology. 
Organisational Psychology is a rapidly changing area both in terms of theoretical 
positions and applications. The purpose of this course is to provide topics that are 
applicable to current work practices in organisations and at the same time introduce 
advanced discussion of underlying psychological topics and methods on which 
current practice is based. 
Assumed Knowledge: It will be assumed that each student has completed a 
course in organisational psychology such as PSYC3100 as well as completed 
subjects in research methods (such as PSYC3010).

PSYC6910  Advanced Topics in Psychology I  
Units: 10  
Locations: Callaghan  
Students will select specific topics from content areas designed to complement their 
previous knowledge in cognate disciplines. This unit allows students to select topics 
directly relevant to their interests, or to their area of study in their research project. 
Students will choose 10 credit points of material based upon a list of reading/seminar 
courses. A list of specific topics will be made available at the beginning of the academic 
year but will reflect the broad diversity of research expertise within the department. 
The topics in this subject complement those offered in PSYC692. 
Contact hours: 2 two-hour seminars per week. 
Assumed Knowledge: Individually negotiated depending on the topics 
selected, but would be equivalent to third year level in psychology or a related 
discipline.

PSYC6920  Advanced Topics in Psychology II  
Units: 10  
Locations: Callaghan  
Students will select specific topics from content areas designed to complement their 
previous knowledge in cognate disciplines. This unit allows students to select topics 
directly relevant to their interests, or to their area of study in their research project. 
Students will choose 10 credit points of material based upon a list of reading/seminar 
courses. A list of specific topics will be made available at the beginning of the academic 
year but will reflect the broad diversity of research expertise within the department. 
The topics in this subject complement those offered in PSYC692. 
Contact hours: 2 two-hour seminars per week. 
Assumed Knowledge: Individually negotiated depending on the topics 
selected, but would be equivalent to third year level in psychology or a related 
discipline.

PSYC6930  Research Project I  
Units: 40  
Locations: Callaghan  
Allows students undertake a research project. Under the direction of an academic 
member of staff, students will spend one semester on this project and the preparation of 
a report suitable either for publication or presentation in an appropriate employment 
context. The report will be of Honours equivalent standard. 
The report will be of coursework Masters equivalent standard. 
Contact hours: 1 hour weekly thesis supervision. 
Assumed Knowledge: Completion of PSYC693.

PSYC6940  Research Project II  
Units: 40  
Locations: Callaghan  
This subject allows students to complete a second research project in order to extend 
a research program commenced in PSYC693. Under the direction of an academic 
member of staff, students will spend one semester on this project and the preparation of a 
report suitable either for publication or presentation in an appropriate employment 
context. The report will be of coursework Masters equivalent standard. 
Contact hours: 1 hour weekly thesis supervision. 
Assumed Knowledge: Completion of PSYC693.

PSYC6960  Applied Psychology Project I  
Units: 10  
Locations: Callaghan  
The first of four subjects comprising the research project component required for the 
Master of Applied Psychology. (PSYC696, PSYC697, PSYC698, PSYC699). 
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. 

PSYC6970  Applied Psychology Project II  
Units: 10  
Locations: Callaghan  
The second of four subjects comprising the research project component required for the 
Master of Applied Psychology. (PSYC696, PSYC697, PSYC698, PSYC699). 
Contact hours: 1 hour of supervision per week. 
Assumed Knowledge: Bachelor of Psychology degree

PSYC6980  Applied Psychology Project III  
Units: 10  
Locations: Callaghan  
The third of four subjects comprising the research project component required for the 
Master of Applied Psychology. (PSYC696, PSYC697, PSYC698, PSYC699). 
Contact: 1 hour of supervision per week. 
Assumed Knowledge: Bachelor of Psychology degree

PSYC6990  Applied Psychology Project IV  
Units: 10  
Locations: Callaghan  
The fourth of four subjects comprising the research project component required for the 
Master of Applied Psychology. (PSYC696, PSYC697, PSYC698, PSYC699). 
Contact: 1 hour of supervision per week. 
Assumed Knowledge: Bachelor of Psychology degree

PUBH1060  HEALTH 1  
Units: 5  
Locations: Callaghan  
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. 

Assumed Knowledge: Bachelor of Psychology degree

PUBH2020  FOUNDATION STUDIES IN EARLY CHILDHOOD HLTH & POLICY  
Units: 10  
Locations: Callaghan  
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 
framework and context for future studies in education by examining relationships 
between health, education, teaching, child development, sport and physical activity. 

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.

PUBH2030  FOUNDATION STUDIES IN HEALTH AND PHYSICAL EDUCATN  
Units: 10  
Locations: Callaghan  
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 
framework 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, 
ilness 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.H.P.E. 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  
Units: 10  
Locations: Callaghan  
Builds on the knowledge and concepts addressed in BEHM106. Health I 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
needs 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 drug education.

Assumed Knowledge: Foundation Studies in Primary Health and Physical Education BEHM200/202

PUBH2400 Bioethics and Law

Units: 10
Locations: Callaghan

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

Units: 10
Locations: Callaghan

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 curriculum 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: none.

PUBH6500 General Practice and Public Health Strategies

Units: 10
Locations: Callaghan

This subject is composed of the cluster of 4 modules from the PHEC Public Health Education for Clinicians project that deal with chronic and complex diseases, diabetes, infectious diseases, and mental health.

Assumed Knowledge: This is an entry level course, for any primary care professional with a basic degree and some work experience. Although it is intended for General Practitioners it could be undertaken by other clinicians.

PUBH6110 General Practice Health Development and Policy

Units: 10
Locations: Callaghan

This subject is composed of the cluster of 4 modules from the PHEC Public Health Education for Clinicians project that deal with Nutrition, Aboriginal Health, Health promoting medical practice, and Drug and alcohol problems.

Assumed Knowledge: This is an entry level course, for any primary care professional with a basic degree and some work experience. Although it is intended for General Practitioners it could be undertaken by other clinicians.

PUBH6120 General Practice Evaluation and Research

Units: 10
Locations: Callaghan

General Practice Evaluation and Research PUBH 6120 consists of 4 modules from the Public Health Education for Clinicians (PHEC) project initiated by the Commonwealth, and available for delivery by universities around the country. While the subject matter has some overlap with Introductory Epidemiology and Biostatistics CCEB 618 there are differences that ensure each of these two courses is relevant to a distinct group of students.

CCEB 618 covers the broad range of Epidemiological approaches at a fairly superficial level, while PUBH 6120 includes only a selection of methods of relevance to general practice. These are covered in greater detail, and done from the perspective of a clinician in active practice. Examples refer to patients who might be seen, therapeutic choices that must be made, and how the production and use of evidence interacts with patient care and population health. The approach to statistics in CCEB 618 includes a general introduction to statistical methods, while PUBH 6120 avoids all statistical theory apart from a few concepts that can be expressed in common language terms.

Assumed Knowledge: This is an entry level course for any primary care professional with a basic degree and some work experience. Although it is intended for general practitioners, it could be undertaken by other clinicians.

PUBH6150 Introduction to Quality Improvement

Units: 10
Locations: Off Campus

Introduces the student to the concepts and application of quality improvement in health care. It describes the historical development of Quality Improvement and the introduction of Quality Improvement programs as a multidisciplinary approach in the health field, lists data sources that are available in various health settings, introduces basic methods of data presentation and presents various examples of Quality Improvement techniques.

Assumed Knowledge: None, but enrolment in this subject will preclude enrolment in BIOS6910 Biostatistics A and BIOS6930 Biostatistics C.

PUBH6160 Quality Improvement Program Evaluation

Units: 10
Locations: Off Campus

This course is designed to allow students to develop an approach to adopting Quality Improvement theories and methods on an organisation-wide basis. They will gain insight into the strategic planning and organisational change required for a facility to become a quality-oriented organisation. Students will also have the opportunity to develop a quality program that meets the requirements of a relevant external accreditation body.

Assumed Knowledge: None.

PUBH6170 Intro to Quantitative Methods for Qualit Improv

Units: 10
Locations: CCEB

The aim of this subject is to provide students with an introduction to statistical thinking, with a particular emphasis on statistical methods appropriate for quality improvement applications. Students are introduced to a statistical software package as a tool for data analysis and presentation. This subject was designed for delivery by Distance Learning, but has been offered on campus both as a full-semester subject and as a short course.

Assumed Knowledge: None, but enrolment in this subject will preclude enrolment in BIOS6910 Biostatistics A and BIOS6930 Biostatistics C.

PUBH6180A Quality Improvement Project (Part A)

Units: 5
Locations: Off Campus

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

Designed to give students practical experience with a small scale project in a health care setting. Under the guidance of an academic supervisor, each student either develops and implements a quality improvement project; or conducts a statistical analysis of previously collected quality-related data.

The student then produces a report which discusses the results, relevance and implications of the project for quality improvement in the health care setting.

Assumed Knowledge: PUBH6150 - Introduction to Quality Improvement

PUBH6180T - Introduction to Quantitative Methods for Quality Improvement

PUBH6180B Quality Improvement Project (Part B)

Units: 5
Locations: Off Campus

This course is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B.

Designed to give students practical experience with a small scale project in a health care setting. Under the guidance of an academic supervisor, each student either develops and implements a quality improvement project; or conducts a statistical analysis of previously collected quality-related data.

The student then produces a report which discusses the results, relevance and implications of the project for quality improvement in the health care setting.

Assumed Knowledge: PUBH6150 - Introduction to Quality Improvement

PUBH6170 - Introduction to Quality Improvement

PUBH6170T - Introduction to Quantitative Methods for Quality Improvement

PUBH6200 Transdisciplinary Health Research

Units: 10
Locations: CCEB

Offers an integrated curriculum preparing social scientists to contribute their perspective to transdisciplinary public health research. Transdisciplinary research draws together in a common framework concepts and methods from different disciplines, in order to develop a comprehensive explanation of health problems and identify points at which the most effective intervention can occur to break the process leading to disease.

Contact Hours: TBA

Assumed Knowledge: None.

PUBH6210 Qualitative Methods in Health Research

Units: 10
Locations: Callaghan

Develops students’ skills in qualitative health research methods. Students will have the opportunity to design, conduct and write up a small project using qualitative methods.

Assumed Knowledge: None.

PUBH6220 Health Social Science I

Units: 0
Locations: CCEB

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 drug education.

Assumed Knowledge: None.

Enrolment in this course precludes enrolment in PUBH6230.

Assumed Knowledge: None.
Off Campus

Assumed Knowledge: No prior training in economics is required.

**PUBH6220A Health Social Science I (Part A)**
- **Units:** 5
- **Locations:** CCEB, Off Campus

This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. An introduction to health social science and behaviour change. Enrolment in this subject precludes enrolment in PUBH 6230A/B.

Assumed Knowledge: n/a

**PUBH6220B Health Social Science I (Part B)**
- **Units:** 5
- **Locations:** CCEB, Off Campus

This course is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B. An introduction to health social science and behaviour change. Enrolment in this subject precludes enrolment in PUBH 6230A/B.

Assumed Knowledge: n/a

**PUBH6230 Health Social Science II**
- **Units:** 10
- **Locations:** CCEB, Off Campus, City Precinct, Distance Education - Callaghan

This course incorporates components of PUBH6220 Health Social Science I and PUBH6250 Health Economics. This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Incorporates components of PUBH6220A/B Health Social Science I and PUBH6250 Clinical Economics.

Assumed Knowledge: Nil

**PUBH6230A Health Social Science II (Part A)**
- **Units:** 5
- **Locations:** CCEB, Off Campus

Enrolment in this subject precludes enrolment in PUBH6220A/B Health Social Science I and PUBH6250 Clinical Economics. This subject is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence. Incorporates components of PUBH6220A/B Health Social Science I and PUBH6250 Clinical Economics.

Assumed Knowledge: n/a

**PUBH6230B Health Social Science II (Part B)**
- **Units:** 5
- **Locations:** CCEB, Off Campus

This course is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B. Incorporates components of PUBH6220A/B Health Social Science I and PUBH6250 Clinical Economics. Enrolment in this course precludes enrolment in PUBH6220A/B Health Social Science I and PUBH6250 Clinical Economics.

Assumed Knowledge: n/a

**PUBH6240 Social Program Evaluation**
- **Units:** 10
- **Locations:** Callaghan

The purpose of this subject is to introduce students to the range of research activities, techniques and applications essential for designing, implementing and appraising social programs, including those addressing health, mental health and social welfare issues.

Contact: 2 hours per week

Assumed Knowledge: n/a

**PUBH6250 Health Economics**
- **Units:** 10
- **Locations:** CCEB, Off Campus

This course is designed to provide students with a broad overview of issues confronting the health sector from an economic perspective. The course centres on this that have universal appeal (the private-public mix in health care; the design and implementation of health insurance; policies for cost containment and health care reform, etc) but these themes will largely be viewed through the Australian health care arrangements.

Assumed Knowledge: No prior training in economics is required.

**PUBH6260 Clinical Economics**
- **Units:** 10
- **Locations:** Callaghan

This subject aims to provide students with an understanding of the concepts, techniques and methodologies associated with economic evaluations as applied to clinical strategies and interventions in the health area generally. The subject extends upon the epidemiological concepts to address questions of the efficiency of resource allocation - are the resources consumed to provide better health for the population worth the cost?

Contact Hours: TBA

Assumed Knowledge: No prior training in economics is required.

**PUBH6270 Critical Appraisal of Functional Outcome Measures**
- **Units:** 10
- **Locations:** Callaghan

Provides students with the skills to critically appraise the literature regarding the measurement of functional ability/outcome in patients/clients with disabilities and an appreciation of the relationship between clinical practice and research methodology.

Assumed Knowledge: Candidates will be required to meet the normal eligibility requirements for entry to the Graduate Diploma in Clinical Epidemiology.

**PUBH6279 Quality Improvement Project Part I**
- **Units:** 10
- **Locations:** CCEB, Distance Education - Callaghan

Provides students with the opportunity to conduct a Quality Improvement Project in a health care organisation under the supervision of academic staff. The student can conduct this project using a variety of methods depending on their area of interest.

Assumed Knowledge: Completion of first year courses desirable.

**PUBH6280 Quality Improvement Project Part II**
- **Units:** 10
- **Locations:** CCEB, Distance Education - Callaghan

Provides students with the opportunity to conduct a Quality Improvement Project in a health care organisation under the supervision of academic staff. The student can conduct this project using a variety of methods depending on their area of interest.

Quality Improvement Project Part I must be successfully completed before undertaking Quality Improvement Project Part II.

Assumed Knowledge: Completion of Quality Improvement Project Part I

**PUBH6300 Minor Thesis Part I**
- **Units:** 10
- **Locations:** CCEB, Off Campus

Aims to consolidate the knowledge and skills acquired during the period of coursework study by applying them in a practical research project. The knowledge and skills encompass but are not restricted to the areas of research planning and study design, data collection and analysis, recording and reporting evidence, and identifying appropriate interventions or remedial actions.

Contact Hours: Students arrange regular meetings, or telephone/email contact schedules with their supervisors.

Assumed Knowledge: EPID6600A and EPID6600B or equivalent.

**PUBH6310 Minor Thesis Part II**
- **Units:** 10
- **Locations:** CCEB, Off Campus

Aims to consolidate the knowledge and skills acquired during the period of coursework study by applying them in a practical research project. The knowledge and skills encompass but are not restricted to the areas of research planning and study design, data collection and analysis, recording and reporting evidence, and identifying appropriate interventions or remedial actions.

Contact Hours: Students arrange regular meetings, or telephone/email contact schedules with their supervisors.

Assumed Knowledge: EPID6600A and EPID6600B Research Protocol Design or equivalent.

**PUBH6330 Minor Thesis Part IV**
- **Units:** 10
- **Locations:** Callaghan

Aims to consolidate the knowledge and skills acquired during the period of coursework study by applying them in a practical research project. The knowledge and skills encompass but are not restricted to the areas of research planning and study design, data collection and analysis, recording and reporting evidence, and identifying appropriate interventions or remedial actions.

Contact Hours: Students arrange regular meetings, or telephone/email contact schedules with their supervisors.

Assumed Knowledge: EPID6600A and EPID6600B Research Protocol Design or equivalent.

**PUBH6870 Minor Thesis Part III**
- **Units:** 10
- **Locations:** Callaghan

Aims to consolidate the knowledge and skills acquired during the period of coursework study, and to apply this knowledge and utilise these skills in research. This may include the areas of research planning and study design, data collection and analysis, in recording and reporting evidence, and in identifying appropriate interventions or remedial actions.

Assumed Knowledge: CCEB661 - Research Protocol Design, or an equivalent approved specialisation course.
**Religious Studies**

**Assumed Knowledge : Nil**

**sacred experience. traditions, including ritual, myth, creed, space and time structures, special persons and**

**Offers a study of those elements of religion which are essential and common to all**

**Religions.**

**Units:**

**RELI3030 Phenomenology of Religion**
- **Units:** 10
- **Locations:** Callaghan

**Assumed Knowledge : Nil**

**Offers a study of those elements of religion which are essential and common to all traditions, including ritual, myth, creed, space and time structures, special persons and sacred experience.**

**REL1010 World Religions**
- **Units:** 10
- **Locations:** Callaghan

**Provides a cross-cultural study of the principal features of the world’s major religions including Buddhism, Islam, Christianity, Hinduism and Judaism, 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 : Nil**

**REL1020 Religion in Australia**
- **Units:** 10
- **Locations:** Callaghan

**Provides students with an historical introduction to religious studies in the Australian context including Aboriginal religions and missions, the major Christian traditions 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.**

**Assumed Knowledge : None**

**REL3020 Topics in Religious Studies II**
- **Units:** 10
- **Locations:** Callaghan

**Allows students to pursue a seminar or directed readings course in religious studies. Available topics will depend on expertise of available staff but may include religious history, applied moral theory, religion and technology, religion in the classical Greek and Roman worlds, religion and philosophy, and the anthropology and sociology of religions.**

**Assumed Knowledge : 40 units at 1000-level in a relevant discipline.**

**REL3030 Phenomenology of Religion**
- **Units:** 10
- **Locations:** Callaghan

**Offers a study of those elements of religion which are essential and common to all traditions, including ritual, myth, creed, space and time structures, special persons and sacred experience.**

**Assumed Knowledge : Nil**

**G**

**SCIM2030 Foundations of Science and Technology**
- **Units:** 10
- **Locations:** Callaghan

**Introduces students in the BTeach/BArts (Primary) program to the study of science and technology. The major strands include physical phenomena, living things, information and communications, the earth and its surroundings, products and services, the built environment and introductory computing. It aims to provide students with a good appreciation of science and technology with particular consideration to preparing them to teach the Science and Technology Key Learning Area curriculum to primary school students. This course is mainly practical and is structured around lectures, tutorials and workshops.**

**Assumed Knowledge : There is no assumed knowledge**

**SCIM2040 Science and Technology Applications**
- **Units:** 10
- **Locations:** Callaghan

**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 : SCIM2030 Foundations of Science and Technology.**

**SENG1100 Introduction to Software Engineering 1A**
- **Units:** 10
- **Locations:** Callaghan

**Central Coast**

**This subject introduces students to problem solving techniques and their implementation on computers. It uses the perspective of Telecommunications, Computer, Electrical and/or Mechatronics Engineers to give students an understanding of the fundamental problems of building quality software. The subject provides sufficient introduction to Object-Oriented Programming to allow students to proceed to other Software Engineering subjects.**

**Assumed Knowledge : Nil**

**SENG1110 Introduction to Software Engineering 1**
- **Units:** 10
- **Locations:** Callaghan

**Central Coast**

**Introduces the fundamentals of analysing a problem and then implementing a solution as a computer software system. Students are introduced to the software life cycle. Emphasis is placed on programming and testing. Requirements analysis and software design are introduced. The subject provides a basic introduction to data abstraction and object-oriented analysis and design. An overview is also given of the basic hardware and software components of a computer system, including operating systems, compilers, interpreters, memory and control logic. The social implications of computing are also discussed.**

**Assumed Knowledge : No assumed knowledge**

**SENG1120 Introduction to Software Engineering 2**
- **Units:** 10
- **Locations:** Callaghan

**Central Coast**

**This subject expands the problem-solving techniques of SENG1110 to large problems, with a study of an object-oriented software analysis and design methodology and preliminary study of design patterns. Software implementation techniques and standards are introduced with the aim of improving programming skills. Students use fundamental algorithmic techniques and structures such as stacks, queues, trees and heaps as tools for problem solving design and implementation.**

**Assumed Knowledge : SENG1110**

**SENG1140 The Online Society**
- **Units:** 10
- **Locations:** Callaghan

**Central Coast**

**Deals with many of the ethical, moral and social implications of computing technology. The topics covered include the changing impact and practical consequences of computers on society. Particular emphasis is placed on popular aspects of computing, such as the Internet and computer games. Students, staff and tutors use computer terminals to access a multi-user virtual environment. Within this environment, students acquire hands-on experience of the social, ethical, legal and practical matters under discussion, while assisting in the continuing evolution of the environment.**

**Assumed Knowledge : None**
SENG2050 Introduction to Web Engineering
Units: 10
Locations: Callaghan
Provides an introduction to the discipline of Web Engineering. This course aims to introduce the methods and techniques used in Web-based system development. In contrast to traditional Software Engineering efforts, Web Engineering methods and techniques must incorporate unique aspects of the problem domain such as: document oriented delivery, fine-grained lifecycles, user-centric development, client-server legacy system integration and diverse end user skill levels. This course draws upon previous programming and computing experience to develop practical web development and maintenance skills. This subject is intended for students with knowledge of both Internet communication concepts and an introductory programming knowledge (Java & Javascript).
Assumed Knowledge: SENG1110

SENG2110 Software Analysis and Verification
Units: 10
Locations: Callaghan
Introduces students to the fundamental techniques of software requirements and specifications for large software systems. These techniques are compared, giving student the skills necessary to choose the most appropriate technique for the solution of complex problems.
Assumed Knowledge: SENG1120, MATH1510

SENG2120 Software Process
Units: 10
Locations: Callaghan
Focuses on how individual programmers can improve their software development process. Students learn techniques for estimating, planning, and producing software systems. Throughout the semester, the students will be given a series of programming tasks for which they will design and refine a personal software process.
Assumed Knowledge: SENG2110

SENG2250 Computer Graphics for Games
Units: 10
Locations: Callaghan
This is an introduction to computer graphics and to computer science taught in the context of computer games. Basic mathematical processes of matrices, vectors, quaternions and how they result in translations and other distortions of images in two and three dimensions, wire frame surfaces, sweeps and revolutions will be considered. A wide range of foundational topics in computer science will give an appreciation of the breadth of the field to majors and non-majors and provide perspective to computer game designers. Topics include computational complexity and how it can be used to design game puzzles. The course will include an historical perspective of the evaluation of games from earliest times to the modern age, the cultural importance of games and analysis of game forms and genres, both physical and digital. This is not a programming course and no programming is assumed, however students will develop game puzzle prototypes.
Assumed Knowledge: A good high-school background will suffice.

SENG3110 Advanced Software Engineering
Units: 10
Locations: Callaghan
This course explores the Advanced Software Conceptual Modeling methods such as data oriented modeling, object/component based modeling, process oriented modeling, Time sequence modeling, Software Re-engineering, Software Reverse Engineering, Plug-n-Play Architecture. International Standards for software development, quality assurance, software Capability Maturity Model (5 level software process model)
Assumed Knowledge: SENG2110

SENG3120 Object Oriented Software Engineering
Units: 10
Locations: Callaghan
Studies large-scale software development using object-oriented techniques and technology. The aim is to show how tools and techniques learned in earlier subjects are applied to solve significant problems. Object-oriented software engineering is investigated from a number of perspectives. The essence of object-oriented software process is studied, and a number of competing methodologies are compared and contrasted. A number of areas that support object-oriented systems are covered, including user interfaces and databases.
Assumed Knowledge: SENG2120

SENG3280 Computer Networks
Units: 10
Locations: Callaghan
Studies high-level communication mechanisms and distributed software development environments, and introduces middleware, remote procedure call, remote data access and message oriented middleware. High level language support for distributed objects is investigated, including protocols and query mechanisms such as JAVA's Remote Method Invocation, OLE/COM/DCOM and CORBA. These are supported by an introduction to the layer networking architecture (physical, data, network and transport layers). Client/Server programming skills are introduced from the TCP/IP protocol suite, especially the transport layer with sockets.
Assumed Knowledge: SENG1110

SENG3300 User Interface Design
Units: 10
Locations: Callaghan
Introduces design and analysis methods for user interface design. Relevant perceptual psychology is introduced, and guidelines for user interface design are derived. Design methods are discussed. Analysis of interfaces by experimentation on humans is described. The subject includes a large practical project in which the students engineer a user interface.
Assumed Knowledge: SENG2110

SENG3380 Concurrent Programming
Units: 10
Locations: Callaghan
This subject will introduce students to the issues involved in programming of concurrent applications. It examines the concepts, theory and practice of software development in concurrent environments. It firstly presents the basic foundations for concurrent computing, and then expands on these topics to cover applications involved in engineering and commerce to illustrate decisions and techniques made by designers of concurrent software systems.
Assumed Knowledge: SENG2110

SENG3390 Software for Distributed Environments
Units: 10
Locations: Callaghan
This subject examines the concepts, theory and practice of software development in distributed environments. It firstly presents the basic foundations for distributed computing, and then expands on these topics to cover advanced distributed operating systems. Examples involving commercial distributed computing environments are included to illustrate the decisions and techniques made by designers of distributed software systems.
Assumed Knowledge: SENG3380

SENG4150 SPECIAL TOPIC E
Units: 10
Locations: Callaghan
SENG4150 and SENG4160 consist of a series of lectures and/or practical work in an area of advanced Software Engineering of contemporary interest. The content of a particular course may vary from year to year according to developments in technology and the presence of academic visitors.
Assumed Knowledge: Permission from Head of School

SENG4160 SPECIAL TOPIC F
Units: 10
Locations: Callaghan
SENG4150 and SENG4160 consist of a series of lectures and/or practical work in an area of advanced Software Engineering of contemporary interest. The content of a particular course may vary from year to year according to developments in technology and the presence of academic visitors.
Assumed Knowledge: Permission from Head of Discipline

SENG4210 Software Engineering Project
Units: 30
Locations: Callaghan
This course is offered on a single semester basis and only with permission of Head of Discipline. It would normally be taken by groups of three to five students, however this may be relaxed under certain circumstances. The aim of the course is to acquaint students with a typical problem and working environment they are likely to encounter in industry. Students go through the full gamut of the software engineering life cycle including analysis, specification, design, implementation, integration, testing and documentation. There is a set of deliverables corresponding to each stage of this process. The linkage with real industry partners stimulates the students' interest in learning Software Engineering with real problems and real applications. A comprehensive student project handbook is issued at the beginning of the semester.
Assumed Knowledge: SENG3110, SENG3120 or equivalent

SENG4210A Software Eng Project Part A
Units: 10
Locations: Callaghan
This subject is Part A of a multi-term sequence, Part B must also be completed to meet the requirements of the sequence. The multi-term sequence covers: a)IT project management b)Software Engineering c)Development of a medium sized project (1.5 to 3 Mbytes executable code) The aim of the course is to acquaint students with a typical problem and working environment they are likely to encounter in industry. Hence they are required to work in groups of three to five, with each group having a supervisor (tutor) and client (the end customer or an industry partner). The students go through the full gamut of the software-engineering life cycle including analysis, specification, design, implementation, integration, testing and documentation. There is a set of deliverables corresponding to each stage of this process. The linkage with real industry partners stimulates the students' interest in learning the Software Engineering with real problems and real applications. A comprehensive student project handbook is issued at beginning of term.
Assumed Knowledge: SENG3110, SENG3120

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Assumed Knowledge: SENG5210 investigating and implementation of a software engineering problem. Technical content will be dependent on the project undertaken. Project work is embodied in the substantive project usually involving a practical investigation and implementation. A comprehensive student project handbook is issued at the beginning of the term.

Assumed Knowledge: SENG3310, SENG3312

SENG4420 Software Architecture
Units: 10
Locations: Callaghan
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 architectures, as well as write a paper and/or give presentations surveying the state of research in some area of software architecture.

Assumed Knowledge: SENG3110, SENG3120 and permission of Head of School for those not in B CompSc (Hons) or B Eng (Software)

SENG6110 Introduction to Software Engineering 1
Units: 10
Locations: Callaghan
This subject introduces the fundamentals of analyzing a problem and then implementing a solution as a computer software system. Students are introduced to the software life cycle. Emphasis is placed on programming and testing. Requirements analysis and software design are introduced. The subject provides a basic introduction to data abstraction and object-oriented design and analysis. An overview is also given of the basic hardware and software components of a computer system, including operating systems, compilers, interpreters, memory, and control logic. The social implications of computing are also discussed.

Assumed Knowledge: No assumed knowledge

SENG6120 Introduction to Software Engineering 2
Units: 10
Locations: Callaghan
Expands the problemsolving techniques of SENG6110 to large problems, with an in-depth study of an object-oriented software analysis and design methodology. Software implementation techniques and standards are introduced with the aim of improving programming skills. Students use fundamental algorithmic techniques and structures such as stacks, queues, trees and heaps as tools for problem solving design and implementation.

Assumed Knowledge: SENG6110

SENG6210 Software Engineering Masters Project
Units: 20
Locations: Callaghan
This subject comprises a substantial project usually involving a practical investigation and implementation of a software engineering problem. Technical content will be dependent on the project undertaken. Project work is embodied in the delivered software and a project report.

Assumed Knowledge: SENG6110

SENG6210A Software Engineering Masters Project (Part A)
Units: 10
Locations: Callaghan
Comprises the first half of a substantial project usually involving a practical investigation and implementation of a software engineering problem. Technical content will be dependent on the project undertaken. Project work is embodied in the delivered software and a project report.

Assumed Knowledge: SENG6110

SENG6210B Software Engineering Masters Project (Part B)
Units: 10
Locations: Callaghan
Comprises the second half of a substantial project usually involving a practical investigation and implementation of a software engineering problem. Technical content will be dependent on the project undertaken. Project work is embodied in the delivered software and a project report.

Assumed Knowledge: SENG6110A

SENG6250 Computer Graphics for Games
Units: 10
Locations: Callaghan
This is an introduction to computer graphics and to computer science taught in the context of computer games. Basic mathematical processes of matrices, vectors, quaternions and how they result in translations and other distortions of images in two and three dimensions, wire frame surfaces, sweeps and revolutions will be considered. A wide range of foundational topics in computer science will give an appreciation of the breadth of the field to majors and non-majors and provide perspective to computer game designers. Topics include computational complexity and how it can be used to design game puzzles. The course will include an historical perspective of the evaluation of games from earliest times to the modern age, the cultural importance of games and analysis of game forms and genres, both physical and digital. This is not a programming course and no programming is assumed, however students will develop game puzzle prototypes.

Assumed Knowledge: A good high-school background will suffice.

SENG6280 Computer Networks
Units: 10
Locations: Callaghan
A study of high-level communication mechanisms and distributed software development environments. Introduction to middleware, remote procedure call, remote data access and message oriented middleware. High level language support for distributed objects is investigated, including protocols and query mechanisms such as JAVA's Remote Method Invocation, OLE/COM/DCOM and CORBA. These are supported by an introduction to the layer networking architecture (physical, data, network and transport layers). Client/Server programming skills are introduced from the TCP/IP protocol suite, especially the transport layer with sockets. This subject shares lectures with SENG328 Computer Networks. Students follow a separate assessment strategy, including an additional review paper on distributed processing protocols.

Assumed Knowledge: COMP1050, SENG3120

SENG6300 User Interface Design
Units: 10
Locations: Callaghan
This subject introduces design and analysis methods for user interface design. Relevant perceptual psychology is introduced, and guidelines for user interface design are derived. Design methods are discussed. Analysis of interfaces by experimentation on humans is described. The subject includes large practical project in which the students engineer a user interface.

Assumed Knowledge: SENG2110.

SENG6310 Software Analysis and Verification
Units: 10
Locations: Callaghan
WebLearn
This course introduces students to the fundamental techniques of software requirements and specifications for large software systems. These techniques are compared, giving student the skills necessary to choose the most appropriate technique for the solution of complex problem. This course is conjunct with SENG2110.

Assumed Knowledge: Students should know at least one object oriented programming language and have some knowledge of data structure. Students should be familiar with set theory and logic operations.

SENG6320 Software Process
Units: 10
Locations: Callaghan
This subject focuses on how individual programmers can improve their software development process. Students learn techniques for estimating, planning, and producing software systems. Throughout the semester, the students will be given a series of programming tasks for which they will design and refine a personal software process.

Assumed Knowledge: SENG3310

SENG6330 Advanced Software Engineering
Units: 10
Locations: Callaghan
This course examines the Advanced Software Conceptual Modeling methods such as data oriented modeling, object/component based modeling, process oriented modeling, Time sequence modeling). Software Re-engineering, Software Reverse Engineering, Plug-n-Play Architecture, International Standards for software development, quality assurance, software Capability Maturity Model (5 level software process model) are covered.

Assumed Knowledge: Good programming skills.

SENG6340 Object Oriented Software Engineering
Units: 10
Locations: Callaghan
Studies large-scale software development using object-oriented techniques and technology. The aim is to show how tools and techniques learned in earlier courses are applied to solve significant problems. Object-oriented software engineering is investigated from a number of perspectives. The essence of object-oriented software process is studied, and a number of competing methodologies are compared and contrasted. A number of areas that support object-oriented systems are covered, including user interfaces and databases.

Assumed Knowledge: SENG6320
SOCA1010 Society and Culture: A Sociological Introduction

Units: 10  
Locations: Callaghan  
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

Units: 10  
Locations: Callaghan  
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, 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

Units: 10  
Locations: Callaghan  
Central Coast  
Gosford Hospital  
This course will introduce students to the sociological study and understanding of health and illness, focusing predominantly on Australian society. The course will examine the causes, nature and consequences of major health inequalities, the ways they are culturally understood, and some of the most important attempts to address them. Substantive topics may be drawn from a range of areas including the social distribution of health and illness; health promotion and illness prevention; access to health care; the state and health care system; the division of labour in the health workforce; ideologies of health, illness and inequality; and health, politics and social change.  
Assumed Knowledge: Not applicable.

SOCA2010 Sociological Perspectives

Units: 10  
Locations: Callaghan  
Looks at four fundamental perspectives commonly used in sociological writing today. It concentrates on the works of four key thinkers - Marx, Weber, Firestone and Foucault. Marx and Weber are two writers whose distinctive theories of inequality and social change have been very influential. The more recent writers are Firestone, a representative and important writer within second wave feminism, and Foucault, the originator of the poststructuralist position. SOCA2010 is one of a number of courses recommended as a useful foundation for entry to the fourth year Honours program in the disciplines of Sociology and/or Anthropology, but it is also of interest to any student who wants a deeper understanding of Sociology.  
Assumed Knowledge: SOCA1010 and either SOCA1020, GEN11020, CULT1110 or SOCA1200

SOCA2020 Introduction to Medical Anthropology

Units: 10  
Locations: Callaghan  
Introduces selected topics in medical anthropology. Illness and healing are analysed as social and cultural processes, providing an alternative perspective to biomedical understandings. The course draws on critical theory to analyse health care systems as social institutions that are embedded in national and global politics. It examines biomedicine as a powerful cultural system and field of social practice which has spread as social and cultural 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 implications of 'race' and ethnicity for the experience of work; the social and political changes in the workplace; ideologies of health, illness and inequality; and health, politics and social change.  
Assumed Knowledge: SOCA1010 and either SOCA1020, GEN11020, CULT1110 or SOCA1200

SOCA2040 Theory & Practice of Social Research

Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: 20 units SOCA 1000 level courses

SOCA2050 Anthropological Analysis

Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: 20 units SOCA 1000 level courses

SOCA2060 Medical and Society

Units: 10  
Locations: Callaghan  
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

SOCA2150 Islam in Modern Society

Units: 10  
Locations: Callaghan  
Provides an understanding of the religion of Islam from a cross-cultural perspective. Following a sociological approach, students are introduced to different versions of Islam as it is practised in various cultures, including studies relating to North Africa, the Middle East, Bangladesh and Australia. There is a particular focus on the role of women and family in Islam, on the relationship between imperialism and Islamist movements, and on Islam in the West.  
Assumed Knowledge: SOCA1020

SOCA2160 Youth Culture

Units: 10  
Locations: Callaghan  
Provides a theoretical understanding of contemporary youth culture. It moves between examination of theoretical material on youth culture, and empirical accounts of youth culture in different societies. A primary focus will be on the interaction 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

Units: 10  
Locations: Callaghan  
Explores the nature of Australia's cultural diversity. It includes four broad areas: immigration policy, immigration debate, the politics of cultural recognition and ethnic identity. The first section covers assimilation, integration and multiculturalism. The second looks at the immigration debate and its concerns with the 'Asianisation 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 nation 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

SOCA2210 Sociology of Community

Units: 10  
Locations: Callaghan  
Introduces students to central questions in the sociological and anthropological study of community. It introduces conceptual issues to do with defining and studying "community," including Marxist, Weberian and symbolic perspectives. It also includes case-study material from within and beyond Australia, including "traditional" and "modern" communities, discussion of the disbandment and more recent "alternative" communities, and an examination of the recent revivals of the concept of "community" in political discourse through the work of Etzioni and others.  
Assumed Knowledge: SOCA1010 and SOCA1020 or equivalent
SOCA2220 Anthropology of Symbol, Myth and Ritual
Units: 10
Locations: Callaghan
Introduces students to a significant area of contemporary anthropology, namely symbolic and interpretative anthropology. This course will allow students to understand how the analyses presented by the classic texts in the anthropology of religion, language and aesthetics have been developed by contemporary theorists and ethnographers. Another objective is to explore the application of these analyses to contemporary symbolic systems. The course will allow students who wish to specialise in anthropology to pursue a logical sequence of courses in Anthropology. Assumed Knowledge : SOCA102 or equivalent

SOCA2240 Democracy, Politics & Power
Units: 10
Locations: Callaghan
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 way in which 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 and policy system. Assumed Knowledge : 20 units SOCA 1000 level courses or equivalent

SOCA2250 Crime and Society
Units: 10
Locations: Callaghan
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 society. 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 GEND1020 Introduction to Gender Studies or equivalent

SOCA2320 Sociology of Food
Units: 10
Locations: Callaghan
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

SOCA2330 Aboriginal Australians: Policy and Politics
Units: 10
Locations: Central Coast
Introduces students to a critical analysis and evaluation of policies and politics pertaining to Indigenous Australians. Government policies such as segregation, assimilation, self-management and self-determination and their effects on Aboriginal communities are evaluated. Introduces students to key theories, concepts and research on the role of the state in contemporary society. One of the central aims is to give priority to the Aboriginal viewpoint on social justice and self-determination issues. Assumed Knowledge : SOCA1010 and SOCA1020 or equivalent

SOCA2360 Sociology of Sex
Units: 10
Locations: Callaghan
Introduces students to the sociology of sex. It is concerned with the way in which sociology can contribute to the study and understanding of an aspect of human life often believed to be governed by nature and biology. The course will introduce students to a variety of theoretical perspectives in order to improve their knowledge of the discipline and to help them critically examine a range of discourses, research and substantive issues pertaining to sex and sexuality. Assumed Knowledge : SOCA1010; SOCA1020; SOCA1100; or equivalent

SOCA2520 Religion and Politics in Contemporary Society
Units: 10
Locations: Callaghan
Covers religion in contemporary societies, and in particular the impact of religion on the political arena. Topics include political wing "fundamentalisms", left wing religious movements of resistance to social oppression, and religious responses to the environmental crises. Case studies are drawn from various societies (e.g. USA, India, Sri Lanka, Latin America). The aim is to enable students to reach a sympathetic yet critical understanding of the place of these developments in contemporary societies. Assumed Knowledge : SOCA1020

SOCA2610 Social Policy and the Welfare State
Units: 10
Locations: Callaghan
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 marxist, political 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 nationalism and privatisation, economic rationalism, managerialism and social justice. Assumed Knowledge : 20 units of SOCA courses at 1000 level or equivalent

SOCA2630 Identity and Culture
Units: 10
Locations: Callaghan
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. Particular 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

SOCA3030 Women, Ecology and Development
Units: 20
Locations: Callaghan
Examines theories and concepts of racism, resistance and cultural identity. Topics include languages of racism, representations of cultural and ethnic identities. Relevant discourses are exemplified by examining various state policies, Australian multiculturalism and the problematic of the international persistence of Romani identity. Contact hours: 2 hour lecture and 2 hour tutorial per week Assumed Knowledge : 20 units SOCA courses at 2000 or 3000 level

SOCA3050 Discourses of Racism, Resistance and Identity
Units: 20
Locations: Callaghan
Examines theories and concepts of racism, resistance and cultural identity. Topics include languages of racism, representations of cultural and ethnic identities. Relevant discourses are exemplified by examining various state policies, Australian multiculturalism and the problematic of the international persistence of Romani identity.

SOCA3060 Environment and Society
Units: 10
Locations: Callaghan
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, environmentally 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 (KLA) of Human Society and its Environment for primary and high school teachers. Assumed Knowledge : 10 units of SOCA 2000 level courses, or HIS11010, or equivalent.

SOCA3100 Sex, Gender and Social Movements
Units: 10
Locations: Callaghan
Focuses critically on themes and issues in sexuality, gender and related social movements. Sexuality has become a key term of identity in industrialised societies and a source of much moral concern and political conflict. Contemporary research evidence about the actual diversity of identity and human sexual desire makes analysis of this highly problematic. Examples of social change are taken from debates about sex and feminism, masculinity, the rise of gay and lesbian movements, responses to moral panics regarding sexual deviance and the growing global dominance of Western categories. Assumed Knowledge : SOCA1010 and either SOCA1020 or GEND1020 or equivalent.
SOCA3110 Representations of Culture in Ethnographic Film

Units: 20
Locations: Callaghan

Explores the significance of audiovisual representations in the development of the discipline of anthropology. Culture is one of the key concepts of anthropology. Theorising about culture has developed in close relationship with technological innovations in representation. This course will draw on the intensive study of selected ethnographic films and other media of visual representation, as well as broadly-based readings in the area of visual anthropology, to develop a critical appreciation of the relationship between audiovisual technology, anthropological theory, and ethnographic representation.

Assumed Knowledge: 20 units SOCA 2000 level courses or equivalent

SOCA3300 Rights, The State & Social Theory

Units: 20
Locations: Callaghan

Explores Australian political culture and identity through an analysis of liberalism in its various guises: as political philosophy, as a creed, formula and rationality of rule and as a type of society. Liberal discourse and its associated concepts and representations play an active part in shaping our understanding of society, culture and social identity. It also embodies ideas about human nature, social life, the state and the relationship between the state, individuals and civil society. Blending ideas and perspectives from sociology, history, politics and political philosophy the course charts and analyses the processes of change in liberal theory, practice and ideology. In particular it focuses on the way Neo-liberalism has come to inhabit the public sphere and its impact on the lives of Australian citizens. The subject draws upon post-structuralist, Marxist and feminist theory.

Assumed Knowledge: 20 units of SOCA 2000 level courses

SOCA3440 Special topic

Units: 10
Locations: Callaghan

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 dependant 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

SOCA3520 Research Methods in Sociology/Social Anthropology

Units: 20
Locations: Callaghan

Offers a wide understanding of various research techniques practiced in social research. Also discusses the interrelationship between theory and method, and ethical moral and political aspects of research. It is expected that this critical, reflexive approach is incorporated into the supervised student research projects. SOCA3520 is required for Honours entry in Sociology, anthropological and social policy.

Assumed Knowledge: SOCA2040 and either SOCA2010 or SOCA2050

SOCA3610 Aboriginal Representations/Representing Aborigines

Units: 20
Locations: Callaghan

Central Coast

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 societies 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 of 2000 level SOCA 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

Units: 20
Locations: Callaghan

Focuses on social and historical reconstructions of bodies, desires and sexualities in Western societies, and critically addresses how they have been categorised, medicalised, idealised, policed 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 storytellings about the body, measured against a range of historically contrived aberrant and peripheral bodies.

Assumed Knowledge: 20 units at SOCA 2000 level or equivalent

SOCA3710 Health, Healing and Social Power

Units: 20
Locations: Callaghan

Critically examines the historical development and ascendency 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 methods and concepts in the literature and research 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

SOCA3840 Citizenship and Globalization

Units: 20
Locations: Callaghan

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 nationalist politics, cultural identity, socioeconomic inequality and political mobilisation.

Assumed Knowledge: 20 units of SOCA 2000 level courses Completion of SOCA2420, Democracy Politics and Power is recommended.

SOCA3850 Indigenous Peoples of the Contemporary World

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: 10cups SOCA 1000 level and 10 cosp SOCA 2000 level courses or equivalent

SOCA3860 Animal Liberation and Society

Units: 10
Locations: Callaghan

Explores the evolution of the human non-human animal relationship. The relationship between human and non-human animals has emerged as a controversial social, moral and political issue and therefore demands close attention. Drawing upon historical, sociological, political and economic perspectives, this course pays particular attention to the strategic role played by philosophers and philosophical 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 and cultural mechanisms that maintain animals as property; the use, life and death of animals in education and research, including a history of vivisection; the formation of animals rights groups in Europe, the United States and Australia; ‘ecoterrorism’; and the impact of animal rights crusades on politics.

Assumed Knowledge: 20 units of SOCA subjects or equivalent

SOCA3870 Sociology of Australian Families

Units: 10
Locations: Callaghan

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 the state.

Assumed Knowledge: 20 units 1000 level courses

SOCA3900 Key Issues in the Social Sciences

Units: 10
Locations: Callaghan

Consists of three inter-related segments, which explore classical and contemporary controversies in the social sciences and their relation to a variety of specific substantive issues. It covers the nature of social reality and the relation between social scientific critique and human emancipation; the ‘invention’ of moral orders explored in regard to modern regimes of public hygienics and medical discourses; and the relation between ethics and authority analysed in the context of the rise of middle class ‘moral entrepreneurs’ in contemporary society.

This is a 3000 level course in social theory designed to build on 2000 level courses such as SOCA2010 Sociological Perspectives, and to prepare students for entry to Honours, Masters and PhD programs.

The major mode of delivery is internal.

Assumed Knowledge: SOCA1010 and SOCA1020; and SOCA 2040, and/or SOCA 2360; or equivalent
SOCA3940 Special topic
Units: 20
Locations: Callaghan
Assumed Knowledge: 20 units each of SOCA courses at 1000 and 2000 level and or a sociological and/or anthropological field of study.

SOCA4090 Sociology and Anthropology Honours I
Units: 20
Locations: Callaghan
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; 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
Units: 20
Locations: Callaghan
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.

SOCA4110 Sociology and Anthropology Honours III
Units: 20
Locations: Callaghan
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
Units: 20
Locations: Callaghan
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.

SOCA6010 Representing Aboriginality
Units: 10
Locations: Callaghan
Assumed Knowledge: 20 units SOCA courses at 2000/3000 level or courses that deal with either Aborigines, Australian society, or race relations

SOCA6030 Ethical Issues in Human Services
Units: 10
Locations: Callaghan
Assumed Knowledge: Entry to one of the specified postgraduate programs

SOCA6190 Gender and Social Change
Units: 10
Locations: Callaghan
Assumed Knowledge: Undergraduate degree majoring in a social science or related discipline.

SOCA6440 Supervised Reading 1
Units: 10
Locations: Callaghan
Assumed Knowledge: 20 units SOCA courses at 2000/3000 level or courses in related area.

SOCA6450 Supervised Reading 2
Units: 10
Locations: Callaghan
Assumed Knowledge: Undergraduate degree with social science major or major in related area.

SOCA6500 Minor Thesis
Units: 40
Locations: Callaghan
Assumed Knowledge: Undergraduate degree with major in social science or related area; and 80 units of coursework masters courses completed with distinction grade average.
SOCA6500A Minor Thesis (Part A)  
Units: 20  
Locations: Callaghan  
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 is designed for students with a distinction grade average in 80 units of the courses for Coursework Master of Social Science degree. It enables them to pursue a minor thesis option for the last 40 units of the degree of which this course represents 20 units. Students are expected to complete a 15,000-20,000 word minor thesis over two semesters on a topic selected in consultation with a nominated supervisor from the School of Social Sciences. Students wishing to complete the thesis in one semester should enrol in SOCA6501 Minor Thesis.  
Assumed Knowledge: Undergraduate degree with major in social science or related area; 80 units of coursework masters courses completed with distinction grade average.

SOCA6500B Minor Thesis (Part B)  
Units: 20  
Locations: Callaghan  
This course is Part B of a multi-term sequence. Part A must have been successfully completed before undertaking Part B. This course is designed for students with a distinction grade average in 80 units of the courses for Coursework Master of Social Science degree. It enables them to pursue a minor thesis option for the last 40 units of the degree of which this course represents 20 units. Students are expected to complete a 15,000-20,000 word minor thesis over two semesters on a topic selected in consultation with a nominated supervisor from the School of Social Sciences. Students wishing to complete the thesis in one semester should enrol in SOCA6550 Minor Thesis.  
Assumed Knowledge: Undergraduate degree with major in social science or related area; 80 units of coursework masters courses completed with distinction grade average.

SOCA6510 Contemporary Developments in Social Theory  
Units: 10  
Locations: Callaghan  
Explores some of the central theories, debates, concepts and research in sociology and anthropology. A survey of key theoretical perspectives provides an understanding of the ideas and intellectual frameworks currently adopted in sociology, anthropology and a range of social science disciplines. These include Marxism, feminism, poststructuralism and postmodernism. The course also explores the ways in which sociologists and anthropologists have adopted and used these theories in their writings.  
Assumed Knowledge: Undergraduate degree with a major in social sciences or related area.

SOCA6550 Management Sociology: International Perspectives  
Units: 10  
Locations: Callaghan  
Provides students with a sociological understanding of management in an international context. It introduces students to contemporary theoretical frameworks in the sociological study of management and then applies these to international case studies of managerial practices whose origin is closely associated with a number of western and non-western countries. Through the application of sociological analysis, students will develop the skills and knowledge to critique, understand and interpret contemporary developments in managerial theory and practice. Students are also introduced to the sociological critique of new managerial concepts. Issues such as new forms of labour process control and surveillance are contrasted with prescriptions for teamwork, employee empowerment and post-bureaucratisation.  
Assumed Knowledge: An undergraduate degree with a major in social science or other related discipline.

SOCA6570 Social Change and Development  
Units: 10  
Locations: Callaghan  
Aims to provide students with the concepts and analytical skills to understand the changes that have taken place in the post-colonial societies of the Asia Pacific region. The course examines globalisation and economic development in relation to states and specific social groups, as well as forces of internal change including gender, ethnicity, urbanisation and social movements. The course will focus on governmental as well as non-governmental actors on the local, national and international levels.  
Assumed Knowledge: Undergraduate degree majoring in a social science or related discipline.

SOCA6580 Women, Environment and the Critique of Development  
Units: 10  
Locations: Callaghan  
Provides a critical introduction to “development” in Third World societies, in particular its problematic and often negative impact on women. It examines various approaches in recent years which have attempted to recognise the special position of women in relation to development. It also examines “ecofeminism” and some of the criticisms which have been made of it.  
Assumed Knowledge: Undergraduate degree in social science or other area related to the course material.

SOCA6590 Environmental Issues and their Social Context  
Units: 10  
Locations: Callaghan  
Examines current environmental problems and commonly proposed political reforms; industrial, domestic and rural environmental technologies, asking what impact the widespread introduction of these technologies might have on society; debates about indigenous environmental knowledge and the social roots of environmental problems in developing countries; proposals for radical structural reform of society to deal with environmental problems; discusses tendencies within the environmental movement such as eco-feminism; deep ecology; social ecology; anarchist and socialist perspectives and environmentalism as a social movement. Field trips and the development of research reports will be used to develop understanding of the social context of environmental issues.  
Assumed Knowledge: Undergraduate degree with major in social science or other area related to the course material.

SOCA6640 Social Science Research Methods  
Units: 10  
Locations: Callaghan  
Provides students with a sound grounding in the range of research methods relevant to the wider teaching program in Social Change and Development. It also provides an awareness of some of the relevant debates in the area of methodology. Both quantitative and qualitative research methods will be covered. The course will be student-centred, problem-oriented and delivered in a multi-media format.  
Assumed Knowledge: Undergraduate degree with major in social science or related area.

SOCA6670 Social Change and Development Research Project  
Units: 20  
Locations: Callaghan  
This course is designed for students wishing to pursue a research essay under the Master of Social Change & Development program, in lieu of two elective courses. Under this course, students are expected to complete an 8,000-10,000 word research essay on a topic relating to social change and development and approved by the course coordinator.  
Assumed Knowledge: Undergraduate degree with a major in social science or other area of relevance to this course.

SPSW1010 Australian Welfare Policy  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: N/A

SPSW1020 Social Issues & Social Policy  
Units: 10  
Locations: Callaghan  
This foundation course explores social issues and social problems and critically analyses government and community welfare responses. This involves analysing programs, policies and interventions which deal with contemporary social issues and includes case studies from some of the following areas: children and families, youth, disability, alcohol and drug dependency, sexuality and gender, ageing, social exclusion and marginalisation.  
Assumed Knowledge: SPSW1010 or equivalent
SPSW2050 Human Rights, Advocacy and Social Change
Units: 10
Locations: Calahgan
This course explores the interrelationship between human rights, community advocacy and social change. It analyses the effectiveness of community advocacy strategies and how these influence structures, organisations and systems, including the legal system. Emphasis is placed on practicalities and skills of being an activist and advocate. It also considers the boundaries and limitations of direct and indirect action and aims to promote a critical understanding, allowing students to appreciate and deal with agents of social control and at the same time be more effective advocates of social change.
Assumed Knowledge: At least one of the following: SPSW1010 or SPSW1020; or other equivalent course at 2000 level from the Faculty of Arts and Social Sciences.

SPSW2110 Community Processes and Social Change
Units: 10
Locations: Calahgan
This course provides students with a range of skills in community work, community development and capacity building. Community work takes place both in neighbourhoods and with communities of interest such as ethnic, Aboriginal, gender-based, youth or aged communities. Central to this empowerment approach is the notion that people with common experiences, issues or problems, can gain control over their lives through collective action. The subject is experience-based and involves fieldwork and analysis of existing community programs and projects.
Assumed Knowledge: Any course at 1000 level from the Faculty of Arts and Social Sciences.

SPSW3002 Human Services Management
Units: 10
Locations: Calahgan
This course develops the knowledge, skills, and values needed by human services managers and coordinators of community programs. It critically examines the social construction of ‘organisational sectors’ and interrogates the competing social, political and economic discourses surrounding welfare reform, economic rationalism, devolution of welfare services, privatisation and competitive tendering, managerialism, accountability and evaluation. It encourages the integration of theoretical and policy analysis with practical skills drawn from the expanding field of community and human services management.
Assumed Knowledge: SPSW1010 Australian Welfare Policy

SPSW3005 Human Services Field Studies 1
Units: 10
Locations: Calahgan
This course prepares students to undertake a supervised placement in a community welfare organisation, social action group or government agency. Field studies provides a ‘hands-on’ opportunity to reinforce learning gained through studies in the Social Science (Welfare Studies) program. This course prepares potential graduates for their transition to professional life in various vocational contexts. The agency-based component is 250 hours duration and may be undertaken as a mix of block and part-time placement over the course of the year until the placement is completed. Students undertake Field Studies in the third year of their degree program.
Assumed Knowledge: SPSW1010, SPSW1020 and SPSW2110 or equivalent.

SPSW3006 HUMAN SERVICES FIELD STUDIES 2
Units: 10
Locations: Calahgan
This course provides a mix of supervised field placement and on-campus workshops, which integrate knowledge, values and skills relevant to students’ individual areas of inquiry and career path in the Human Services. The overall agency-based component is 250 hours (12 weeks) duration which may be completed over semesters one and two via a block and/or part-time placement.
Assumed Knowledge: SPSW1010, SPSW1020 and SPSW2110 or equivalent.

SPSW3008 Mental Health Policy & Programs
Units: 10
Locations: Calahgan
This course links theoretical perspectives of mental health and disorder to their practical application in the context of social and community care. In particular, it critiques contemporary policy and intervention programs from a strengths-based anti-discriminatory perspective.
Assumed Knowledge: SPSW1010 Australian Welfare Policy

SPSW3060 Social Welfare Project
Units: 10
Locations: Calahgan
This course provides students with an opportunity to critically examine a contemporary social issue or policy of personal interest relevant to social welfare. Students draw on secondary data whilst undertaking a self-directed study on their chosen area of inquiry, and learn to make policy submissions and intervene in policy debates to effect changes in social policy at various levels. This is a preparatory course for students planning to do an Honours program.
Assumed Knowledge: SPSW1010 and SPSW2010

SPSW3070 Regional Social Policy and Planning
Units: 10
Locations: Calahgan
This course in this course students examine current social planning practice and techniques through a regional focus. Students also explore concepts of locational disadvantage, regional policy, and ecological sustainability. Relevant project work is undertaken to develop knowledge and skills in social planning practice.
Assumed Knowledge: A knowledge base developed in SPSW1010 Australian Welfare Policy (formerly SPSW1010) and SPSW2110 Community Processes and Social Change (formerly SPSW2020), SWRK1001 Introduction to Social Work (formerly SWRK1001) and SWRK3021 Social Work Theory and Practice 1 (formerly SWRK2100) or equivalent courses.

SPSW4010 Welfare Studies Honours I
Units: 20
Locations: Calahgan
This course is studied in conjunction with SPSW4020, SPSW4030 and SPSW4040 as together the four components comprise the Honours Program in Social Policy Studies in Welfare. The Honours Program provides students with a depth of social policy study necessary for pursuing a career in social policy and social administration, and for undertaking postgraduate research. It provides a research stream for students who have distinguished themselves at 1000-3000 level and wish to explore advanced approaches to Social Policy theory, development and analysis. The Honours Program is intended to develop and strengthen writing and research skills in social policy, challenge students intellectually and complement undergraduate studies with higher-level independent studies.

SPSW4020 Welfare Studies Honours II
Units: 20
Locations: Calahgan
This course is studied in conjunction with SPSW4020, SPSW4030 and SPSW4040 as together the four components comprise the Honours Program in Social Policy Studies in Welfare. The Honours Program provides students with a depth of social policy study necessary for pursuing a career in social policy and social administration, and for undertaking postgraduate research. It provides a research stream for students who have distinguished themselves at 1000-3000 level and wish to explore advanced approaches to Social Policy theory, development and analysis. The Honours Program is intended to develop and strengthen writing and research skills in social policy, challenge students intellectually and complement undergraduate studies with higher-level independent studies.

SPSW4030 Welfare Studies Honours III
Units: 20
Locations: Calahgan
This course is studied in conjunction with SPSW4020, SPSW4030 and SPSW4040 as together the four components comprise the Honours Program in Social Policy Studies in Welfare. The Honours Program provides students with a depth of social policy study necessary for pursuing a career in social policy and social administration, and for undertaking postgraduate research. It provides a research stream for students who have distinguished themselves at 1000-3000 level and wish to explore advanced approaches to Social Policy theory, development and analysis. The Honours Program is intended to develop and strengthen writing and research skills in social policy, challenge students intellectually and complement undergraduate studies with higher-level independent studies.

SPSW4040 Welfare Studies Honours IV
Units: 20
Locations: Calahgan
This course is studied in conjunction with SPSW4020, SPSW4030 and SPSW4040 as together the four components comprise the Honours Program in Social Policy Studies in Welfare. The Honours Program provides students with a depth of social policy study necessary for pursuing a career in social policy and social administration, and for undertaking postgraduate research. It provides a research stream for students who have distinguished themselves at 1000-3000 level and wish to explore advanced approaches to Social Policy theory, development and analysis. The Honours Program is intended to develop and strengthen writing and research skills in social policy, challenge students intellectually and complement undergraduate studies with higher-level independent studies.
SPTH1110 Speech Pathology Introduction 1

Units: 10
Locations: Callaghan

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 communicative 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.

Assumed Knowledge: nil

SPTH1120 Speech Pathology Introduction 2

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH1110

SPTH2080 Clinical Practice

Units: 10
Locations: Callaghan

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 placement experiences and the facilitation of links between academic/clinical knowledge. Tutorials will also provide experience in developing a community education project.

Assumed Knowledge: SPTH1110, SPTH1120 (Concurrent SPTH2210)

SPTH2210 Speech Pathology in Education & Community Settings 1

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH1120, LING3350

SPTH2220 Speech Pathology in Education & Community Settings 2

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH1120, LING3350

SPTH3020 Speech Pathology III B

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH3110, HUBS2352

SPTH3080 Clinical Practice

Units: 10
Locations: Callaghan

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 case loads. 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.

Assumed Knowledge: SPTH1110, HUBS2352, SPTH2080

SPTH3110 Speech Pathology in Medical Settings 1

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH2210, HUBS2352

SPTH3120 Speech Pathology in Medical Settings 2

Units: 10
Locations: Callaghan

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).

Assumed Knowledge: SPTH2210, SPTH3110, HUBS2352

SPTH4010 Speech Pathology IV

Units: 10
Locations: Callaghan

Discusses the professional issues involved in clinical speech pathology, including ethics, medicolegal issues, and management issues involved in caseload & service delivery. Job seeking skills and career development will also be covered.

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 5

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH1110, SPTH1120, SPTH2080, SPTH2210, SPTH2220, SPTH3110, SPTH3120, SPTH3020, SPTH3080

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 SPTH4080.

SPTH4090 Clinical Practice

Units: 10
Locations: Callaghan

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 both child and adult populations. The clinical placements are usually in speech pathology services provided in community or hospital settings, and involve full day attendance (8.30am - 5pm), on a one day per week basis over the semester.

Assumed Knowledge: SPTH1110, SPTH1120, SPTH2080, SPTH2210, SPTH2220, SPTH3110, SPTH3120, SPTH3020, SPTH3080

SPTH4120 Special Topics

Units: 10
Locations: Callaghan

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.

Assumed Knowledge: SPTH1110, SPTH1120, SPTH2080, SPTH2210, SPTH2220, SPTH3110, SPTH3120, SPTH3020, SPTH3080
SPTH4210 Research Review
Units: 10
Locations: Calahgan
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 order to argue for a specific research question or direction for further research. The major modes of delivery are lectures and tutorials.
Assumed Knowledge: All SPTH 3000 level courses

SPTH4220 Speech Pathology Research Thesis
Units: 10
Locations: Calahgan
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 tutorials, seminars and project work. Theses are submitted to the Faculty of Arts & Social Science Research Ethics Committee. The major modes of delivery are tutorials, seminars and project work. Theses are submitted to the Faculty of Arts & Social Science Research Ethics Committee.
Assumed Knowledge: SPTH4210. Students must have obtained at least a Credit average across their core SPTH courses at 2000 and 3000 level for entry to SPTH4220.

SRMT1010 Sustainable Resource Management: Natural Systems
Units: 10
Locations: Central Coast
Natural resource management must address entire ecosystems. This course 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 computing skills, and problem-solving skills necessary to analyse issues and develop management.
Assumed Knowledge: NA

SRMT1020 SRM: Social Systems
Units: 10
Locations: Central Coast
Examines social systems and their integral relationship with sustainable resource management at both global and local scales. This course 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.
Assumed Knowledge: SRMT1010

SRMT2010 Values and Sustainability
Units: 10
Locations: Central Coast
Examines the way in which society values the environment and how this may influence its management. The course 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.
Assumed Knowledge: None, although SRMT1010 and SRMT1020 are highly recommended.

SRMT2020 Sustainable Resource Management: Land Systems
Units: 10
Locations: Central Coast
Examines the ways in which soil and vegetation can be managed on a sustainable basis. The course 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 soil 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.
Assumed Knowledge: None, although SRMT1010 and SRMT1020 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
Units: 10
Locations: Central Coast
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 course, students will examine the ways in which water quality and water allocation can be managed on a sustainable basis. The course will focus on local and regional case studies and examples, as far as possible.
Assumed Knowledge: None, although SRMT1010 and SRMT1020 are highly recommended.

SRMT2040 Sustainable Resource Management: Biodiversity
Units: 10
Locations: Central Coast
Australia’s biodiversity is globally unique but threatened by unsustainable human uses. This course provides students with a full understanding of the significance of biodiversity in planning and managing sustainable systems and processes. Students will learn how to: describe the major components of biodiversity; 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.
Assumed Knowledge: None

SRMT3010 Resource Assessment and Monitoring
Units: 10
Locations: Central Coast
Provides students with the ability to assess biodiversity and resource usage, to monitor and evaluate management actions and to apply GIS to natural resource management. 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 number of case study projects.
Assumed Knowledge: SRMT1010 Sustainable Resource Management: Natural Systems

SRMT3020 Planning for Sustainability
Units: 10
Locations: Central Coast
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.
Assumed Knowledge: SRMT1010 Sustainable Resource Management: Natural Systems

SRMT3030 Conservation Science
Units: 10
Locations: Central Coast
The current crisis for Earth’s biodiversity can only be addressed by scientific understanding and action. This course provides students with the knowledge and skills used to diagnose, research and treat issues of concern for endangered species, harvesting of wild species (such as fisheries and forestry), rehabilitation of species and communities, and loss of genetic diversity. Specific objectives are to provide students with conservation science theory, to develop skills for the analysis and treatment of issues 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.
Assumed Knowledge: SRMT1010 Sustainable Resource Management: Natural Systems

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**SRMT3040 Community Resource Management**
- **Units:** 10
- **Locations:** Central Coast
- 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.

**SRMT3040 Sustainable Resource Management Honours 411**
- **Units:** 20
- **Locations:** Central Coast
- Provides an advanced and substantive education in Sustainable Resource Management. 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 course develops an understanding of advanced theory underpinning the practice of sustainable resource management, within Australian and global settings.

**SRMT4100 Foundations of Sustainable Resource Management**
- **Units:** 20
- **Locations:** Central Coast
- Provides students with the opportunity to tailor their study by selection of topics relevant to their interests and to their proposed area of study in their project. This must be based on available coursework from the following list of courses. Students will be expected to read beyond the standard course and assessment will be independent of the standard assessment and at an appropriate level. Topic related primary courses (select 20 units):
  - STEC2030 Applied Biostatistics 10 units
  - Contact Hours: 4 hours per week
  - SRMT2020 Sustainable Management: Land systems 10 units
  - Contact Hours: 5 hours per week
  - SRMT2030 Sustainable Management: Water systems 10 units
  - Contact Hours: 5 hours per week
  - SRMT2040 Sustainable Management: Biodiversity 10 units
  - Contact Hours: 5 hours per week
- Specific details for each of the above courses are available in a separate semester course information leaflet.

**SRMT6920 Topics in Sustainable Resource Management**
- **Units:** 20
- **Locations:** Central Coast
- Aims to introduce students with an understanding of sustainable resource management at a senior level in preparation for advanced specialist study. Students will be able to either develop or appropriately extend their knowledge in sustainable resource management to a level essential for advanced study and project development.

**SRMT9010 Advanced Topics in Sustainable Resource Management**
- **Units:** 20
- **Locations:** Callaghan
- Provides students with the opportunity to tailor their study by selection of topics relevant to their interests and particularly to the proposed area of study in their selected project. Students choose two topics from the following: Advanced Concepts in Conservation Science; Advanced Concepts in Planning for Sustainability; Advanced Concepts in Resource Assessment and Monitoring.

**SRMT9040 Research Developments in Sustainable Resource Management**
- **Units:** 20
- **Locations:** Central Coast
- Allows students to undertake a research project prepared for in prior or parallel study in SRMT9040. Students, under the direction of a member of academic staff, will spend a half/semester (or equivalent part/time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of preliminary experimental results. A typed literature review of a size defined below will be required.

**SRMT9060 Project I**
- **Units:** 20
- **Locations:** Central Coast
- Allows students to undertake a research project prepared for in prior or parallel study in SRMT9060. Students, under the direction of a member of academic staff, will spend a half/semester (or equivalent part/time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of preliminary experimental results. A typed literature review of a size defined below will be required.

**SRMT9080 Project II**
- **Units:** 20
- **Locations:** Central Coast
- Allows students to undertake a research project prepared for in prior or parallel study in SRMT9080. Students, under the direction of a member of academic staff, will spend a half/semester (or equivalent part/time) on project establishment and initiation. The project will be designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will only evolve during the actual study. Approximately 40% of the time will be devoted to a review of the known scientific literature of the selected field, approximately 40% to method development and/or instrument establishment and approximately 20% to the attainment of preliminary experimental results. A typed literature review of a size defined below will be required.

**STAT1050 Statistics for Business**
- **Units:** 10
- **Locations:** Callaghan
- Distance Education - Callaghan
- "Without data, you’re just another person with an opinion.” This course aims to develop statistical thinking in a business context. It looks at making business decisions based on data and answers questions about data collection, presentation and analysis.

**STAT1070 Statistics for the Sciences**
- **Units:** 10
- **Locations:** Callaghan
- Distance Education - Callaghan
- How do we use data to make informed scientific decisions? This course introduces students to statistical thinking, data collection, data presentation and statistical analysis needed for science based courses.
STAT2010 Fundamentals of Statistics
Units: 10
Locations: Callaghan
Distance Education - Callaghan
Statistics is about using data to describe, summarise and model the world around us. Whether it’s cricket scores, the stock market or global warming, we need to understand probability and data analysis in order to make informed decisions and predictions. This course develops basic concepts of probability, random variables and their distributions, methods for data analysis, statistical estimation and hypothesis testing. These ideas are applied to a variety of real problems.

STAT2020 Data Analysis: Regression & Forecasting
Units: 10
Locations: Callaghan
Distance Education - Callaghan
Quantitative analysis is becoming a valuable part of business, management and industry at all levels. Having the skills to understand and carry out such analysis is becoming more and more attractive to employees, especially in the areas of business, finance, industry and marketing to name only a few. This course aims to give a good grounding to students in the quantitative skills needed to thrive in the business world and to raise their understanding of the concepts behind quantitative analysis. These skills enhance and facilitate valid and effective decision making in the face of uncertainty, a common problem facing business today.

STAT2030 Time Series Analysis
Units: 10
Locations: Distance Education - Callaghan
This course 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 to forecast future values. This course presents both theory and applications of linear time series at a level accessible to a wide variety of students and practitioners in statistics, economics, business, engineering and the quantitative social sciences.

STAT3010 Total Quality Management
Units: 10
Locations: Callaghan
Distance Education - Callaghan
Total Quality Management (TQM) is a scientific approach for management and employees to be involved in the continuous improvement of processes underlying the production of goods and services. This approach is fundamental in business, industry, evidence-based medicine and many other disciplines.

STAT3020 Generalized Linear Models
Units: 10
Locations: Callaghan
Distance Education - Callaghan
How do we model data of very different types in a consistent way? This course explores generalized linear models and illustrates how methods for analysing continuous and categorical data fit into this framework.

STAT3030 Statistical Inference
Units: 10
Locations: Callaghan
Distance Education - Callaghan
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.

STAT3030 Time Series Analysis
Units: 10
Locations: Distance Education - Callaghan
This course 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 to forecast future values. This course presents both theory and applications of linear time series at a level accessible to a wide variety of students and practitioners in statistics, economics, business, engineering and the quantitative social sciences.

Offered on campus in S1 of EVERY year.

STAT3030 is offered on campus in Semester 1 of ODD years and by distance learning in S1 and 2 if appropriate software is accessible.

Assumed Knowledge: At least two statistics courses

STAT3040 Computer Literacy
Units: 10
Locations: Callaghan
Experience in the use of a statistical software package

STAT3090 Data Mining
Units: 10
Locations: Callaghan
Almost all workplaces, including business, industry, government and medical institutes, collect data. But what does this mass of data tell us? This course introduces techniques for extracting valid and useful information from data. The strengths and weaknesses of the data mining tools used will be examined through illustrative examples.

STAT3090 is offered on campus in Semester 1 of ODD years, and by distance learning in S1 and 2 every year if appropriate software is accessible.

Assumed Knowledge: Introductory statistics and introductory regression.

STAT3100 Survey and Experiments
Units: 10
Locations: Callaghan
Using data to support decision making is essential in many disciplines, but how do we collect appropriate data? This course covers the design and analysis of surveys and experiments. Development of data collection instruments, methods for drawing a sample and estimation procedures appropriate to each design are described. The course aims to foster a sound understanding of the basic concepts and application of sampling and the principles of experimental design. Assignments and exercises are based on real problems.

STAT3100 is offered on-campus in Semester 2 of ODD years, and by distance learning in Semester 1 and 2 each year.

Assumed Knowledge: Introductory statistics and introductory regression.

Guide to Undergraduate and Postgraduate and Courses - 2003
STAT3210 Business Research Methods
Units: 10
Locations: Callaghan
Distance Education - Callaghan

STAT3210 provides an opportunity for students taking different degrees and different majors to develop an understanding of the research process and fundamental research methods. Business improvement relies on a range of research skills such as: formulation of study objectives; study design; collection of meaningful data; presentation, analysis and interpretation of results; making decisions based on the findings. This course investigates the processes involved in all the above aspects, making up the business research process. The focus is on data-based thinking and skills and applying them to real world situations.

This course is not to be counted for credit with STAT2100.

STAT3210 is offered on campus in Semester 1 and by distance learning in Semesters 1 and 2.

Assumed Knowledge: Introductory Statistics at 1000 level, 2 Unit HSC Mathematics or equivalent and 30 units at 2000 level, or equivalent.

STAT3220 Advanced Marketing Research
Units: 10
Locations: Callaghan

Acquaints students with advanced methods used for marketing research.

Assumed Knowledge: STAT1050 or STAT101 and STAT2100/STAT3210 or MKGT2010

STAT4320 Statistics Honours 4320
Units: 20
Locations: Callaghan

Introduces students to the investigative and research aspects of statistical knowledge. Prepares students for further postgraduate study in statistics (PhD or Masters) either in Australia or overseas and 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. Students are required to complete 6 advanced topics together with a project done under the supervision of an academic staff member. The project and most of the topics are designed to bring students nearer the frontiers of knowledge in a particular aspect of Statistics.

Assumed Knowledge: Students intending to pursue Honours in Statistics should consult with Head of School or the Statistics Honours Coordinator prior to their commencement. In general, a statistics major with a credit level average at the 3000 level is required for entry into Honours.

STAT4340 Statistics Honours 4340
Units: 20
Locations: Callaghan

Introduces students to the investigative and research aspects of statistical knowledge. Prepares students for further postgraduate study in statistics (PhD or Masters) either in Australia or overseas and 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. Students are required to complete 6 advanced topics together with a project done under the supervision of an academic staff member. The project and most of the topics are designed to bring students nearer the frontiers of knowledge in a particular aspect of Statistics.

Assumed Knowledge: Students intending to pursue Honours in Statistics should consult with Head of School or the Statistics Honours Coordinator prior to their commencement. In general, a statistics major with a credit level average at the 3000 level is required for entry into Honours.

STAT4330 Statistics Honours 4330
Units: 20
Locations: Callaghan

Introduces students to the investigative and research aspects of statistical knowledge. Prepares students for further postgraduate study in statistics (PhD or Masters) either in Australia or overseas and 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. Students are required to complete 6 advanced topics together with a project done under the supervision of an academic staff member. The project and most of the topics are designed to bring students nearer the frontiers of knowledge in a particular aspect of Statistics.

Assumed Knowledge: Students intending to pursue Honours in Statistics should consult with Head of School or the Statistics Honours Coordinator prior to their commencement. In general, a statistics major with a credit level average at the 3000 level is required for entry into Honours.

STAT4340 Statistics Honours 4340
Units: 20
Locations: Callaghan

Introduces students to the investigative and research aspects of statistical knowledge. Prepares students for further postgraduate study in statistics (PhD or Masters) either in Australia or overseas and 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. Students are required to complete 6 advanced topics together with a project done under the supervision of an academic staff member. The project and most of the topics are designed to bring students nearer the frontiers of knowledge in a particular aspect of Statistics.

Assumed Knowledge: Students intending to pursue Honours in Statistics should consult with Head of School or the Statistics Honours Coordinator prior to their commencement. In general, a statistics major with a credit level average at the 3000 level is required for entry into Honours.

STAT6070 Decision Analysis
Units: 10
Locations: Callaghan
Distance Education - Callaghan

Introduces techniques for decision making in the face of uncertainty and/or risk. Examples will be drawn primarily from business and commercial contexts. Students will complete a small project applying decision analysis methods to a real problem.

Assumed Knowledge: An understanding of basic statistics.

STAT6100 Total Quality Management
Units: 10
Locations: WebLearn City Precinct

Total Quality Management(TQM) is a scientific approach for management and employees to be involved in the continuous improvement of processes underlying the production of goods and services. This approach is fundamental in business, industry, evidence-based medicine and many other disciplines. Students who complete this course will be able to critically appraise management techniques, choose appropriate statistical techniques for improving processes and write reports to management describing processes and recommending ways to improve them. People need to be aware of what they can and can’t do with data. Management is limited to what it knows and so to is the organisation. Awareness of statistical techniques and their use is paramount to collecting information and making decisions. Quantitative skills are necessary in order to make decisions - else you are just another person with an opinion.

Assumed Knowledge: Nil

STAT6200 Statistics and Data Analysis
Units: 10
Locations: City Precinct

Business improvement relies on a range of research skills such as: formulation of study objectives; study design; collection of meaningful data; presentation, analysis and interpretation of results; making decisions based on the findings. This course investigates the processes involved in all the above aspects, making up the business research process. The focus is on learning data-based thinking and skills and applying them to real world situations.

The purpose of this subject is to develop the research skills of students involving solving problems with, or making intelligent decisions on the basis of data, within the business arena. The subject aims are as follows:

- Use scientific/systematic research methods to carry out workplace investigations.
- Facilitate a broader understanding of, and confidence in using, statistical and research methods relevant to business.
- Identify appropriate tools for collecting reliable and valid data and then analysing it, in order to facilitate valid business decisions.
- Write, and present, reports based on data analysis in a way that can be used by decision-makers.

Assumed Knowledge: None.

STAT6610 Topics in Statistics A
Units: 10
Locations: Callaghan

Provides students with the opportunity to develop skills in core statistics. Students must choose a 10 unit course at minimum 2000 level regarded by the Head of School as core statistics and subject to the approval of the Head of School.

Contact hours: by arrangement

Assumed Knowledge: As stated in the chosen component course description and approval of Head of School.

STAT6620 Topics in Statistics B
Units: 10
Locations: Callaghan

Provides students with the opportunity to develop skills in core statistics. Students must choose a 10 unit course at minimum 2000 level regarded by the Head of School as core statistics and subject to the approval of the Head of School.

Contact hours: by arrangement

Assumed Knowledge: As stated in the chosen component course description and approval of Head of School.
STAT6630  Topics in Statistics C
Units: 10
Locations: Callaghan
Provides students with the opportunity to develop skills in core statistics. Students must choose a 10 unit course at minimum 2000 level regarded by the Head of School as core statistics and subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: As stated in the chosen component course description and approval of Head of School.

STAT6640  Topics in Statistics D
Units: 10
Locations: Callaghan
Provides students with the opportunity to develop skills in core statistics. Students must choose a 10 unit course at minimum 2000 level regarded by the Head of School as core statistics and subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: As stated in the chosen component course description and approval of Head of School.

STAT6710  Advanced Topics in Statistics A
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests.
Students must choose 10 units of material from
a) the 3000/4000 level available statistics courses or
b) a relevant cross-disciplinary course at a minimum 2000 level subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: Topics in Statistics A,B,C and D or equivalent.

STAT6720  Advanced Topics in Statistics B
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests.
Students must choose 10 units of material from
a) the 3000/4000 level available statistics courses or
b) a relevant cross-disciplinary course at a minimum 2000 level subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: Topics in Statistics A,B,C and D or equivalent.

STAT6730  Advanced Topics in Statistics C
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests.
Students must choose 10 units of material from
a) the 3000/4000 level available statistics courses or
b) a relevant cross-disciplinary course at a minimum 2000 level subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: Topics in Statistics A,B,C and D or equivalent.

STAT6740  Advanced Topics in Statistics D
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests.
Students must choose 10 units of material from
a) the 3000/4000 level available statistics courses or
b) a relevant cross-disciplinary course at a minimum 2000 level subject to the approval of the Head of School.
Contact hours: by arrangement.
Assumed Knowledge: Topics in Statistics A,B,C and D or equivalent.

STAT6810  Specialist Topics in Statistics A
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests and particularly to the proposed area of study for their project. Students must choose 10 units of material from
a) the 4000 level available statistics topics or
b) a relevant cross-disciplinary course at a minimum 3000 level subject to the approval of the Head of School.
Contact hours: by arrangement
Assumed Knowledge: Advanced Topics in Statistics A,B,C and D or equivalent.

STAT6820  Specialist Topics in Statistics B
Units: 10
Locations: Callaghan
Provides students with the opportunity to tailor their study by selection of a topic relevant to their interests and particularly to the proposed area of study for their project. Students must choose 10 units of material from
a) the 4000 level available statistics topics or
b) a relevant cross-disciplinary course at a minimum 3000 level subject to the approval of the Head of School.
Contact hours: by arrangement
Assumed Knowledge: Advanced Topics in Statistics A,B,C and D or equivalent.

STAT6940  Project
Units: 20
Locations: Callaghan
Allows students to commence a research project prepared for in courses undertaken to date. Students under the direction of a member of the academic staff, will spend a half-semester on project establishment and initiation. The final project is designed to produce viable results within the timescale of the project, but (because it is a research project) the amount and level of results will evolve during the actual study. The results will be reported in a written report.
Contact hours: by arrangement
Assumed Knowledge: Advanced Topics in Statistics A,B,C and D or equivalent and approval of the Head of School.

STEC1010  Computing and Communication in Science
Units: 10
Locations: Central Coast
Provides an introduction to the basic knowledge and techniques needed to use computers effectively in the research and development environment. The course is designed specifically to cater to the needs of students in courses at the Ourimbah Campus. Students in a range of disciplines including Food Technology, Human Nutrition, Herbal Therapies, Psychology, Sustainable Resource Management and Marine Biology will find this course useful.
Assumed Knowledge: None.
Not be counted with SCIM1010 or INFO1010

STEC1030  Foundations of Science and Technology
Units: 8
Locations: Central Coast
Introduces students to the study of science and technology. Major strands include physical phenomena, living things, information and communications, the earth and its surroundings, the built environment and products and services. Some computer work is included.
Assumed Knowledge: There are no Pre or Co-Requisites.

STEC2020  Introduction to Biometrics
Units: 10
Locations: Central Coast
Introduces science students to statistical thinking within a biological framework, data presentation for scientific problem solving, statistical analysis and a range of experimental design techniques needed in designing experiments. The theoretical aspects of experimental design and data analysis will be considered in the light of practical applications taken from discipline areas such as food technology, marine science and sustainable resource management.
Assumed Knowledge: None

STEC2030  Applied Biometrics
Units: 10
Locations: Central Coast
Provides an introduction to the principles underlying the design and analysis of experiments for biological sciences. It will focus on the factors influencing the choice of one particular experimental design and data analysis over another. It extends the various two sample test introduced in STEC202 Biometrics and provides a range of tests which are appropriate if the assumption of normality made in parametric tests is not satisfied. The purpose of the course is to provide biometric methodology to research in areas such as marine science, food technology, etc.
Assumed Knowledge: STEC2020 Introduction to Biometrics

STEC2990  Mathematics and Technology
Units: 10
Locations: Central Coast
Provides a framework for the teaching of primary-level mathematics, including an introduction to the use of computers in the mathematics classroom. The course progresses through three stages: basic skills, classroom mathematics and mathematical thinking.
Assumed Knowledge: None, but some form of HSC knowledge is desirable.
STEC4110  Applied Chemistry Honours 411
Units: 20
Locations: Central Coast
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.

STEC4120  Applied Chemistry Honours 412
Units: 20
Locations: Central Coast
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.

STEC4130  Applied Chemistry Honours 413
Units: 20
Locations: Central Coast
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.

STEC4140  Applied Chemistry Honours 414
Units: 20
Locations: Central Coast
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.

STEC4210  Applied Biology Honours 421
Units: 20
Locations: Central Coast
The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 units, 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 Applied Sciences 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 biological 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 Bachelor of Science.

STEC4220  Applied Biology Honours 422
Units: 20
Locations: Central Coast
The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 units, building on the Bachelor of Science. 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 Applied Sciences 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 biological 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 Bachelor of Science.

STEC4230  Applied Biology Honours 423
Units: 20
Locations: Central Coast
The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 units, 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 Applied Sciences 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 biological 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.

STEC4240  Applied Biology Honours 424
Units: 20
Locations: Central Coast
The Honours program in Applied Biology consists of one year of full-time study (or the equivalent part-time) for a total of 80 units, 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 Applied Sciences 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 biological 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.

STSS6100  Total Quality Management
Units: 10
Locations: Callaghan
For Hong Kong Cohort
Provides an opportunity for students taking different degrees and different majors to develop an understanding of the fundamental principles of Total Quality Management. Students will also develop skills to choose appropriate statistical techniques for improving processes and write reports to management describing processes and recommending ways to improve them.

Contact hours: by arrangement

Assumed Knowledge: No assumed knowledge

STSS6200  Statistics and Data Analysis
Units: 10
Locations: Callaghan
For Hong Kong Cohort
Provides an opportunity for students taking different degrees and different majors to develop an understanding of the fundamental principles of Total Quality Management. Students will also develop skills to choose appropriate statistical techniques for improving processes and write reports to management describing processes and recommending ways to improve them.

Contact hours: by arrangement

Assumed Knowledge: None

STXS6100  Total Quality Management
Units: 10
Locations: Callaghan
For Malaysian Cohort
Provides an opportunity for students taking different degrees and different majors to develop an understanding of the fundamental principles of Total Quality Management. Students will also develop skills to choose appropriate statistical techniques for improving processes and write reports to management describing processes and recommending ways to improve them.

Contact hours: by arrangement

Assumed Knowledge: No assumed knowledge
STSX6200  Statistics and Data Analysis  
Units: 10  
Locations: Callaghan  
Introduces students to statistical thinking, data presentation and statistical analysis in a business context.

On completion of the subject students should be able, at an elementary level, to understand and quantify variability; summarise and present data; design, implement, analyse and interpret results of surveys; use correlation and regression methods in appropriate ways to analyse and interpret data; analyse and interpret time series data.

For Indonesian Cohort
Contact hours: 3.5 hours per week  
Assumed Knowledge: No required knowledge

SURV1110  Surveying 1  
Units: 10  
Locations: Callaghan  
Elementary field and office surveying theory and practice. Delivered primarily by lecture accompanied by field exercises.  
Assumed Knowledge: HSC or equivalent.

SURV1120  Surveying 2  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: HSC or equivalent.

SURV1911  Industrial Experience  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: Content covered in courses SURV111 Surveying 1, SURV112 Surveying 2, and first year Mathematics.

SURV2180  Electronic Surveying  
Units: 10  
Locations: Callaghan  
Presents the theory and practical usage of electronic equipment used in field surveys such as electronic distance measuring devices and Global Positioning System receivers.  
Assumed Knowledge: Content covered in courses Surveying 1 and Surveying 2.

SURV2340  Survey Computing  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: Content covered in courses MATH111, MATH112.

SURV2650  Spatial Data Systems and Remote Sensing  
Units: 10  
Locations: Callaghan  
This course will provide students with a general knowledge of types of spatial information and data base 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 course will provide students with general skills in image processing and image interpretation.  
Assumed Knowledge: There are no pre-requisites for this course, although broad general knowledge of SURV111 Surveying 1 or PHYS111 will be desirable.

SURV3350  Analysis of Observations  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: Content covered in courses MATH111, MATH112.

SURV3510  Geodesy 1  
Units: 10  
Locations: Callaghan  
The gravity field of the earth and how it affects observations. Introduction to the geometry of the sphere, 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.  
Assumed Knowledge: Content covered in courses MATH201, MATH203, SURV335 Analysis of Observations.

SURV3610  Photogrammetry 1  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: Mathematical background an advantage.

SURV3930  Land Boundary Definition.  
Units: 10  
Locations: Callaghan  
Theory and Practice of Land Boundary Definition. Delivered primarily by lecture accompanied by field exercises.  
Assumed Knowledge: Content covered in Second Year B. Surv. courses.

SURV4110  Industrial Surveying  
Units: 10  
Locations: Callaghan  
Presents applications of surveying field, office and management principles and practices to the specific environment encountered in mining surveys and other industrial surveys.  
Assumed Knowledge: Content covered in courses SURV110 Surveying 1, SURV120 Surveying 2, SURV2130 Surveying 3, SURV2340 Survey Computing.

SURV4200  Survey Design and Management  
Units: 10  
Locations: Callaghan  
A final year professional course which prepares students for professional life.  
Assumed Knowledge: Content covered in first three years of B. Surv. (or B.E. Civil).

SURV4410  Astronomy and Satellite Positioning  
Units: 10  
Locations: Callaghan  
Astronomical positioning: Introduction to relative movements of earth, sun and stars; astronomical co-ordinate systems. 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 series satellites.  
Assumed Knowledge: Content covered in courses SURV2180, SURV2340, and SURV2510.

SURV4720  Land Valuation  
Units: 10  
Locations: Callaghan  
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.  
Assumed Knowledge: Content covered in two years of university study or equivalent.
**SURV4730**  
**Town Planning**  
*Units: 10*  
*Locations: Callaghan*  
Principles of Town Planning, a practical exercise and review of Planning Legislation.  
**Assumed Knowledge:** Content covered in courses in, at least, first two years of B.Surv. degree is preferable.

**SURV4810A**  
**Project A**  
*Units: 10*  
*Locations: Callaghan*  
This course is Part A 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:** Content covered in all courses at level 1000, 2000, 3000 in the relevant program.

**SURV4810B**  
**Project B**  
*Units: 10*  
*Locations: Callaghan*  
This course is Part B 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 program objectives. Delivered primarily by case study.  
**Assumed Knowledge:** Content covered in all courses at level 1000, 2000, 3000 in the relevant program.

**SURV4850A**  
**Project A**  
*Units: 10*  
*Locations: Callaghan*  
**This course 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.  
**Assumed Knowledge:** Content covered in all courses at level 100, 200, 300 in the relevant course.

**SURV4850B**  
**Project B**  
*Units: 10*  
*Locations: Callaghan*  
**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 course objectives. Concludes with one day of intensive seminar presentations by all students.  
**Assumed Knowledge:** Content covered in all courses at level 100, 200, 300 in the relevant program.

**SURV4980**  
**Special Topic**  
*Units: 5*  
*Locations: Callaghan*  
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.  
**Assumed Knowledge:** Variable.

**SURV4990**  
**Special Topic**  
*Units: 5*  
*Locations: Callaghan*  
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.  
**Assumed Knowledge:** Variable.

**SWRK1001**  
**Introduction to Social Work 1**  
*Units: 10*  
*Locations: Callaghan*  
Focuses on social work in contemporary Australian Society with an emphasis on social justice and how inequality is constructed. 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.  
**Assumed Knowledge:** N/A

**SWRK1002**  
**Introduction to Social Work 2**  
*Units: 10*  
*Locations: Callaghan*  
Focuses on social work in contemporary Australian Society with an emphasis on social justice and how inequality is constructed. 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.  
**Assumed Knowledge:** SWRK1001, SOCA1010, PSYC1010

**SWRK2001**  
**Social Work Theory and Practice 1**  
*Units: 20*  
*Locations: Callaghan*  
Examines some essential knowledge for Social Work. A number of social work theories are covered including their practice implications. Three of the social work methods, groupwork, community work and research are worked with in detail. The course also includes an in-depth focus on critical thinking and a number of current social issues.  
**Assumed Knowledge:** SOCA1010, SOCA1020, PSYC1010, PSYC2010 and SWRK1001 and SWRK1002 or SWRK1010A and SWRK1010B. Concurrent completion of SWRK2003.

**SWRK2002**  
**Social Work Theory and Practice 2**  
*Units: 20*  
*Locations: Callaghan*  
Examines some essential knowledge for Social Work. A number of social work theories are covered including their practice implications. Three of the social work methods, groupwork, community work and research are worked with in detail. The course also includes an in-depth focus on critical thinking and a number of current social issues.  
**Assumed Knowledge:** SOCA1010, SOCA1020, PSYC1010, PSYC2010 and SWRK1001 and SWRK1002 or SWRK1010A and SWRK1010B, SWRK2001, SWRK2003 and concurrent completion of SWRK2004.

**SWRK2003**  
**Field Education 1**  
*Units: 10*  
*Locations: Callaghan*  
**Interpersonal skills and the ability to reflect on and analyse work with a supervisor are taught in a classroom-based workshop.**  
**Assumed Knowledge:** Completion of all first year social work courses. Concurrent completion of SWRK2001.

**SWRK2004**  
**Field Education 2**  
*Units: 10*  
*Locations: Callaghan*  
A placement of fifty days supervised by a qualified social worker. Staff of the program locate and service placements and students are allocated a placement according to a number of pedagogical principles that take into account the needs of the student. The placement is assessed against a clearly stated set of learning goals. Students are well supported during the placement with group meetings on campus and a staff liaison person allocated to each student.  
**Assumed Knowledge:** All first year social work courses, SWRK2001 and SWRK2003.

**SWRK2005**  
**Social Work Special Project**  
*Units: 10*  
*Locations: Callaghan*  
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 group work, students use 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.  
**Assumed Knowledge:** SOCA1010, SOCA1020, PSYC1010, PSYC1020, SWRK1001, and 20 unspecified units. Concurrent completion of SWRK2002.

**SWRK2008**  
**Social Work Special Project**  
*Units: 10*  
*Locations: Callaghan*  
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 group work, 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.  
**Assumed Knowledge:** SOCA1010, SOCA1020, PSYC1010, PSYC2010, SWRK1001, SWRK1002 and 20 unspecified units. Concurrent completion of SWRK2002.

**SWRK2040A**  
**Social Work Special Project (Part A)**  
*Units: 10*  
*Locations: Callaghan*  
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 group work, 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)
Units: 10
Locations: Callaghan
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 worked through. Exercises, activities and small group work, 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

SWRK3001 Social Work Theory & Practice 3
Units: 10
Locations: Callaghan
Learning in this course is organised around practice scenarios where violence is a central issue of concern. Students will work through major social work methods of intervention: casework, groupwork, community work and social action. They will become familiar with and be able to discuss, the theoretical bases for their assessments and decision making in practice. Self-awareness, analysis of political contexts and commitment to social justice goals are fundamental themes throughout SWRK3100. Class time will be spent in discussion, small group work, skills practice, and group presentations. Students will be expected to integrate learning from their 2nd year theory and practice subject and field placement with learning in this course. This course constitutes essential preparation for the 3rd year field placement.
Assumed Knowledge: Enrolled in and have completed the first and second year of the Bachelor of Social Work. Students must also be enrolled in SWRK3003 - Field Education 3.

SWRK3002 Social Work Theory & Practice 4
Units: 20
Locations: Callaghan
In this course students have the opportunity to explore the social work practice domain relating to the promotion of change with and for families. This learning is developed in the context of a historical examination of family work and social work practice.
Assumed Knowledge: Completed first and second year social work. Completed SWRK3001 and SWRK3003.

SWRK3003 Field Education 3
Units: 20
Locations: Callaghan
A placement of fifty days supervised by a qualified social worker. Staff of the program locate and service placements and students are allocated a placement according to a number of pedagogical principles that take into account the needs of the student. The placement is assessed against a clearly stated set of learning goals. Students are well supported during the placement with group meetings on campus and a staff liaison person allocated to each student.
Assumed Knowledge: Completion of all first and second year social work courses. Concurrent completion of SWRK3001.

SWRK3004 Social Work and Family Policy
Units: 10
Locations: Callaghan
Examines historical, social, cultural and political perspectives which have influenced the development of family services. Students will be expected to demonstrate an understanding of these influences on the current provision of services, and an understanding of government policy and legislation as it relates to the family and maintenance of services.

SWRK4001 Social Work Theory & Practice 5
Units: 20
Locations: Callaghan
The final year of the social work degree draws together learning over the three previous years of study. This course focuses on more complex issues including ethical decision making, systematic literature review and evaluation of practice.
Assumed Knowledge: Third Year Social Work courses, SPSW3070, PHIL3580, LGAL1001 or equivalent.

SWRK4002 Social Work Theory & Practice 6
Units: 10
Locations: Callaghan
This course focuses on preparing students for a career in social work including job application and continuing professional education. Professional workshops are held in areas where students feel that further skills are required. Students are supported to write an article for a social work journal in their area of interest and write a proposal for evaluation of practice in their field placement agency.
Assumed Knowledge: Third Year Social Work courses, SPSW3070, LGAL1001 or equivalent, PHIL3580, SWRK4001, SWRK4003.

SWRK4003 Social Work Intervention Skills
Units: 10
Locations: Callaghan
Builds on learning from previous years with a specific focus on interpersonal and intervention skills in a range of methods and settings.
Assumed Knowledge: Completion of all third year social work courses.

SWRK4004 Field Education 4
Units: 20
Locations: Callaghan
A placement of fifty days supervised by a qualified social worker. Staff of the program locate and service placements and students are allocated a placement according to a number of pedagogical principles that take into account the needs of the student. The placement is assessed against a clearly stated set of learning goals. Students are well supported during the placement with group meetings on campus and a staff liaison person allocated to each student.
Assumed Knowledge: Completion of all third year social work courses and SWRK4001 and SWRK4002.

SWRK4200 Families, Schools and Community
Units: 10
Locations: Callaghan
This course aims to provide students with an understanding of the relationship between educational experience and family and community contexts. Through participation in service learning projects aimed at enhancing school/community interface, students will gain an appreciation of the range of community capacities and resources that can support teaching practice.
Assumed Knowledge: EDUC1003 Learners and Learning Process EDUC1006 Professional Practice 1 EDUC3026 Special Education

SWRK6040A Minor Thesis
Units: 20
Locations: Callaghan
This course is Part A of a multi-term sequence. Part B must also be completed to meet the requirements of the sequence.
The minor thesis is an independent, self contained piece of scholarship or research no longer than 15,000 words. It must demonstrate command of a particular area of knowledge and/or skill and the ability to write at least a the level required for publication in a refereed journal. The work should make a contribution to the social work profession.
Assumed Knowledge: N/A

SWRK6040B Minor thesis
Units: 20
Locations: Callaghan
This subject is Part B of a multi-term sequence. Part A must also be completed to meet the requirements of the sequence.
The minor thesis is an independent, self contained piece of scholarship or research no longer than 15,000 words. It must demonstrate command of a particular area of knowledge and/or skill and the ability to write at least a the level required for publication in a refereed journal. The work should make a contribution to the social work profession.
Assumed Knowledge: N/A

SWRK6100 Policy and Program Evaluation
Units: 10
Locations: Callaghan
This course introduces students to the techniques, skills and approaches to policy and program evaluation. Drawing on case studies from the human services, debates over the goals, definitions, parameters and politics of evaluations will be explored. The course will provide an overview of research methods that are utilised in the planning, design, conduct and writing of evaluation studies. The course will provide a systematic guide to evaluating a range of organisational structures and processes and related issues such as efficiency, effectiveness, transparency and accountability. The perspective of the client's group and their needs will be addressed in reference to equity, accessibility and appropriateness of services and policies.
Assumed Knowledge: An undergraduate degree with a major in social sciences or related area.

SWRK6130A Professional Counselling Skills (Part A)
Units: 10
Locations: Callaghan
Designed to develop counselling skills for professionals engaged in various health and welfare settings. Genetic counselling, palliative care and other specialty areas are considered during the course.
Assumed Knowledge: N/A

SWRK6130B Professional Counselling Skills (Part B)
Units: 10
Locations: Callaghan
Designed to develop counselling skills for professionals engaged in various health and welfare settings. Genetic counselling, palliative care and other specialty areas are considered during the course.
Assumed Knowledge: N/A
SWRK6200  Transormative Leadership in Human Serv Orgs

Units: 10
Locations: Distance Education - Callaghan

Using paper-based distance learning and email discussion groups, this course responds to the need for new conceptions of leadership in Human Service Organisations. Leaders in organisations need to be able to motivate, coach, mentor and support staff in rapidly changing environments with limited resources. In this course students will learn about a variety of leadership styles as well as how to identify and develop personal strengths and abilities to be an effective leader. Emphasis will be on transformative leadership and team capacity building.

Assumed Knowledge: An undergraduate degree in a relevant area, e.g. Bachelor Social Work, Bachelor of Social Science, Bachelor of Arts.

SWRK6300  Current Developments in Human Service Delivery

Units: 10
Locations: Distance Education - Callaghan

This course examines current trends in the delivery of human services within their broader political, economic, social and historical contexts. The course incorporates both critical analysis and practical application in relation to topics such as competitive tendering, social entrepreneurship and social enterprise, partnership development, business social investment, community engagement and other emerging themes.

Assumed Knowledge: nil