Unit sets: Built Environment and Design

Year offered: 2010
Admissions: Yes

Unit sets

These unit sets have been designed such that introductory units have no prerequisites. Later units in each set may have earlier units as prerequisites.

Due to timetabling constraints it may not be possible to complete all units in a University Wide Elective Set.

Consult with your course coordinator and relevant discipline coordinators prior to undertaking interfaculty studies.

Please be aware that the units you complete in a University Wide Elective Sets will appear on your academic transcript but the unit set title will not unless the set exists as a minor in your course.

Architectural Studies unit set

DAB110  Architectural Design 1
DEB102  Introducing Design History
  Plus 2 from:
DAB210  Architectural Design 2
DAB220  Placemaking in Architecture
DAB325  Architecture in the 20th Century
DAB310  Architectural Design 3
DAB330  Integrated Technologies 1
DAB410  Architectural Design 4
DAB420  Architecture, Culture and Space
DAB435  Architectural Technology 1

Collaborative Digital Design unit set

  4 units from:
BEB210  Introduction To Collaboration
BEB211  Parametric Design Systems
BEB212  Advanced Collaboration
BEB213  Sustainable Design Systems
KCB201  New Media 1: Information and Knowledge
KI B103  Introduction to Web Design and Development

Students must select at least 2 BEB-coded units.

Design and People-Environment Interactions unit set

DAB220  Placemaking in Architecture
  Plus 3 from:
DAB420  Architecture, Culture and Space
DNB402  Socio-cultural Studies
DTB403  Human Environment
DTB502  Environments in Transition
DTB602  Design in Society

Industrial Design Studies unit set

DNB101  Industrial Design 1
DEB102  Introducing Design History
  Plus 2 from:
DEB200  Introducing Sustainability
DNB201  Industrial Design 2
DNB202  Product Usability
DNB301  Industrial Design 3
DNB302  Computer Aided Industrial Design
DNB303  Manufacturing Technology
DNB401  Industrial Design 4
DNB402  Socio-cultural Studies
DNB502  Industrial Design History, Theory and Criticism
DNB602  New Product Development

Interior Design Studies unit set

DTB101  Interior Design 1
DEB102  Introducing Design History
  Plus 2 from:
DTB201  Interior Design 2
DTB202  Design Technology
DTB301  Interior Design 3
DTB302  Colour Studies
DTB303  Technical Design
DTB401  Interior Design 4
DTB402  Interior Systems
DTB403  Human Environment
DTB502  Environments in Transition
DTB602  Design in Society

Landscape Architecture Studies unit set

DAB220  Placemaking in Architecture
  Plus 3 from:
DAB420  Architecture, Culture and Space
DNB402  Socio-cultural Studies
DTB403  Human Environment
DTB502  Environments in Transition
DTB602  Design in Society

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CRICOS No. 00213J ABN 83 791 724 622
## UNIT SYNOPSISES

### BEB210 INTRODUCTION TO COLLABORATION
This unit introduces students to the foundational aspects of collaboration within the design and documentation of artefacts, using Building Information Modelling (BIM) approach. Focusing on multidisciplinary collaboration during the complete life cycle of a built environment facility. This unit is an approach to the theory and practice of BIM software, exploring the translation from Computer Aided Design (CAD) to BIM. This unit is also the foundation for BEB212 Advanced Collaboration.

**Assumed knowledge:** Working knowledge of 3D CAD software for the student's discipline and completion of DE40 Year 1 units or EN40 Year 1 & 2 units is assumed knowledge.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

### BEB211 PARAMETRIC DESIGN SYSTEMS
This subject introduces students to the use of parametric geometry systems that are used in early stages of design. These are the systems used by major design firms such as Zaha Hadid and Frank Gehry (architecture), SOM (architecture/engineering) and Arup (engineering).

**Assumed knowledge:** Working knowledge of 3D CAD software for the student's discipline and completion of DE40 Year 1 units or EN40 Year 1 & 2 units is assumed knowledge.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

### BEB212 ADVANCED COLLABORATION
In a real environment designers need to collaborate with others using a range of design tools provided by different software vendors. In this unit you will develop an understanding of interoperability and methods of maximising the benefits of information exchange across a range of design tools.

**Prerequisites:** BEB210  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2
BEB213 SUSTAINABLE DESIGN SYSTEMS
A range of sustainability tools will be covered that support environmental impact analysis, economic analysis and social impact assessment, within a holistic approach to design. The capabilities of the tools will be discussed and then used to build up appropriate workflows that support integrated assessment for sustainability. These will be applied to a comprehensive design problem to reinforce the students understanding.

Assumed knowledge: Working knowledge of 3D CAD software for the student's discipline and completion of DE40 Year 1 units or EN40 Year 1 & 2 units is assumed knowledge. Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2010 SEM-2

BEB701 WORK INTEGRATED LEARNING 1
This unit aims to provide you with the opportunity to learn in a workplace environment. It will involve attendance, participation, observation, critical reflection, and report writing on workplace activities. The emphasis of your critical reflection and report writing will be on identifying and describing aspects of professional relevance incorporating: collaboration and teamwork; work place; health and safety; professional conduct; ethical responsibility, and other aspects of your work place experience. This unit may form part of your (compulsory) course core (as required by professional accrediting bodies e.g. Engineers Australia, Australian Institute of Building, Royal Institution of Chartered Surveyors), or it may be one of several work integrated learning (WIL) units (selected as part of a Minor).

Prerequisites: 192cp of completed studies Credit points: 12 Campus: Gardens Point Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

BEB702 WORK INTEGRATED LEARNING 2
This unit aims to provide you with the opportunity to continue to learn in a work place environment. It will involve attendance, participation, observation, and reflection on activities negotiated with the work place supervisor. The emphasis of your critical reflection for this unit is to explicate the culture of the organisation you work for via the profile it presents to its employees, clients and the public and critique the role of an individual in a work place and how this relates to other employees in meeting the organisations aims and objectives.

Credit points: 12 Campus: Gardens Point Teaching period: 2010 SEM-1 and 2010 SEM-2

BEB801 PROJECT 1
This unit is usually taken in the final year of study. Students complete an individual project involving the application of skills and knowledge attained during the earlier years of their degree program. For some students, this unit will be taken one of two 'project' units related to the same student project; in such cases this unit may be a pre-requisite or co-requisite to the second unit (or a follow-on from the first unit). The final 'deliverable' for this unit may vary for each discipline and details will be provided in lectures/tutorials and on the Blackboard website.

Equivalents: CEB411, CEB420, CNB434, EEB781-1, EEB889-1 Credit points: 12 Contact hours: 2 per week Campus: Gardens Point Teaching period: 2010 SEM-1 and 2010 SEM-2

BEB802 PROJECT 2
This unit is usually taken in the final year of study, and is only taken by students completing a two unit project. Students complete an individual project involving the application of skills and knowledge attained during the earlier years of their degree program. This unit will be taken as the second of two 'project' units related to the same student project.

Equivalents: CEB415, EEB782-2, EEB889-2 Credit points: 12 Contact hours: 2 Campus: Gardens Point Teaching period: 2010 SEM-1 and 2010 SEM-2

BEB901 RETROFITTING FOR SUSTAINABILITY
THIS UNIT IS OFFERED IN ODD-NUMBERED YEARS ONLY.
This unit will provide students with an opportunity to examine in depth current data on the condition of built and natural environments and the wellbeing of people living within these environments, worldwide and in Australia. Special attention will be given to problems observed in the built environment, such as greenhouse gas emissions, population increase, over consumption and resource depletion including water shortages, coastal degradation and urban sprawl.

Credit points: 12 Campus: Gardens Point

BEB902 GREENING THE BUILT ENVIRONMENT
THIS UNIT IS OFFERED IN EVEN-NUMBERED YEARS ONLY.
This unit presents the challenges and opportunities for built environment professionals to contribute to a sustainable society. It introduces a paradigm shift in environmental design from reducing negative environmental impacts to generating net positive impacts. It shows how, with a new approach to design, development can be a sustainability solution. Positive Development would increase overall social and natural capital beyond that which existed on site before settlement. Building design principles and eco-technologies are surveyed that address sustainability issues at the level of buildings, building components and materials. In addition, green practitioners will explain how they have dealt with impediments to sustainable development in an evening lecture series.
Credit points: 12    Campus: Gardens Point    Teaching period: 2010 SEM-1

BEB903 GREENHOUSE SOLUTIONS
This unit is offered in odd-numbered years only.
The unit aims to briefly introduce students to barriers facing the adoption of greenhouse abatement strategies and the methods by which these barriers can be overcome. Finally, the unit will describe how energy, transport and urban systems, like the climate system itself, have great inertia: they take decades to change. This means that in order to achieve significant reductions in greenhouse emissions, and to avoid the worst effects of climate change, early planning and action is critical for these systems.

Credit points: 12    Campus: Gardens Point    Teaching period: 2009 SEM-2

BEB904 ECO-INNOVATION FOR SUSTAINABILITY
This unit is offered in even-numbered years only.
This is one of the units in a Minor in Sustainability designed to equip you to address fundamental social, ecological and economic challenges facing society using a systems design approach. This unit focuses on ‘eco-innovation’, which includes institutional, technological and spatial design solutions that increase the ecological base, human health, well-being and equity as well as reducing total resource consumption and waste. New strategies are explored which can help find leverage points where small actions or investments generate system-wide improvements.

Credit points: 12    Campus: Gardens Point    Teaching period: 2010 SEM-2

DAB110 ARCHITECTURAL DESIGN 1
This unit offers a broad introduction to the field of design as applied to architecture. It uses developmental exercises to enhance student perceptions of the built environment in a problem based learning environment. Design problems of increased complexity are applied to architecture. It uses developmental exercises to enhance student perceptions of the built environment in a problem based learning environment. Architectural design as a manageable process in explored through a number of exercises and design projects. Discrete steps in the process of architectural design are made explicit through staged activities that build to a complete design project. Orthogonal drawing exercises, freehand sketching, presentation graphics, and model making all form part of the unit content. Teaching and learning activities are spread across lectures, tutorials, and studio based activities.

Prerequisites: DAB110    Equivalents: ADB002
Contact hours: 4 per week    Campus: Gardens Point    Teaching period: 2010 SEM-2

DAB220 PLACEMAKING IN ARCHITECTURE
The unit aims to promote students’ awareness of concepts of environmental psychology such as territory, community, privacy, personal space and spatial perception from a variety of cultural perspectives. It also includes an introduction to the ways in which architecture is practiced and the concept of professionalism as it pertains to architectural practice. Further the unit explores social and cultural relationships between people and the institutions of society through the study of introductory sociology, cultural analysis and political economy. Teaching and learning activities are spread across lectures, tutorials, and studio based activities.

Credit points: 12    Contact hours: 4 per week    Campus: Gardens Point    Teaching period: 2010 SEM-2

DAB310 ARCHITECTURAL DESIGN 3
This intermediate level unit in architectural design uses developmental exercises to enhance student perceptions of the built environment in a problem based learning environment. Design problems of increased complexity are tackled through a process of abstraction, experimentation, representation, imagination, and testing. Advanced orthogonal drawing, freehand sketching, presentation graphics, documentation techniques, and model making all form part of the unit content. Teaching and learning activities are spread across lectures, tutorials, workshops and studio based activities.

Prerequisites: DAB210    Equivalents: ADB003
Contact hours: 4 per week    Campus: Gardens Point    Teaching period: 2010 SEM-1

DAB325 ARCHITECTURE IN THE 20TH CENTURY
Designers in any discipline should possess the ability to appreciate the history of art, design and architecture. In addition, they should be able to analyse developments in design history from multiple perspectives. This unit is a survey course of the history and theory of architecture from...
the beginning of the 20th century to the present. Teaching and learning takes place through three forms of structured activity: lectures, tutorials, and online. **Assumed knowledge:** DAB220 is assumed knowledge. **Equivalents:** ADB011  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-1

**DAB330 INTEGRATED TECHNOLOGIES 1**
This is the first discipline-based unit in the Technology and Science design stream, through the introduction and application of the architectural principles for Environmental Design (including sustainability, lighting, and acoustics), Construction, and Structures. It introduces students to the basic technologies and sciences associated with architectural practice and in particular technical skills required for simple design projects.

Thermal characteristics of building materials, bioclimatic chart analysis, climate and climatic elements as environmental factors influencing architectural design, basic climatic regions and climate responsive building design, solar heating and cooling of buildings, thermal performance analysis, environmentally sustainable building materials, colour, natural and artificial lighting, ventilation, and condensation will be forming the Environmental Design topics.  

**Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-1

**DAB410 ARCHITECTURAL DESIGN 4**
This unit offers an intermediate level investigation into the field of design as applied to architecture. It uses developmental exercises to enhance student perceptions of the built environment in a problem based learning environment. Complex design problems deal with issues of social context, ethics, values, as well as the physical constraints of site, materials, climate, and technology. Design projects require the management of conflicting constraints to achieve optimal design proposals. Precedence, typologies, research and analysis, and representation techniques all form part of the unit content. Teaching and learning activities are spread across lectures, tutorials, and studio based activities.  

**Prerequisites:** DAB310  **Equivalents:** ADB004  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-2

**DAB420 ARCHITECTURE, CULTURE AND SPACE**
Architecture is, arguably, a measure of a community’s cultural mores; it reflects the attitudes, values and beliefs of its period. In this unit students are introduced to the diverse architectural traditions of Australasia, and an appreciation of architecture through the understanding of Asian cultures, as well as the development of architectural culture through the processes of historical colonial expansion into the region. It will give students an overview of both the history and current trends of Australian architecture and locate it within the context of the larger Asia-Pacific region. Teaching and learning is conducted through problem-based learning with supporting lectures and tutorials.  

**Assumed knowledge:** DAB220 is assumed knowledge.  

**Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-2

**DAB435 ARCHITECTURAL TECHNOLOGY 1**
The unit will explore various forms of domestic construction with particular reference to general properties of building materials, common construction practices used in dwellings, single storey and class 10 buildings. Comparison of building systems and their effect on domestic building design will be explored in detail. Students will be introduced to the construction aspects of the BCA including its housing provisions and associated codes for all types of buildings to assist to achieve the requirements for building approvals.  

**Assumed knowledge:** DAB330 is assumed knowledge.  

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-2

**DEB102 INTRODUCING DESIGN HISTORY**
This unit encompasses a broad survey of the history of design from the civilizations of antiquity to the opening of the 20th century – including architecture, industrial design, interior design and landscape architecture. It is a first year foundation unit and serves as preparation for more detailed and specialized studies in history and theory in subsequent years. Key designs, ideas and artefacts and the aesthetic, environmental, technological, socio-cultural and political factors that related to their production will be analysed.  

**Equivalents:** ADB931  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-1

**DEB200 INTRODUCING SUSTAINABILITY**
This unit will enable you as a graduating Built Environment and Engineering professional to take active and positive steps to transform professional practice in ways that promote the sustainability of our planet, our economy and our society. As future professionals in the fields of Design, Urban Development and Engineering Systems, you will need to understand and apply the concepts of sustainability in your professional practice if we are to achieve sustainable development in the 21st Century.  

**Equivalents:** BEB200  **Credit points:** 12  **Campus:** Gardens Point  **Teaching period:** 2010 SEM-2

**DLB130 LANDSCAPE DESIGN 1**
This unit introduces spatial design and place-making theory in tandem with design research and inquiry methods. It is structured to provide groundwork of knowledge in the ways
in which people use, perceive and value places and environments. Further, it encourages students to apply design skills to place-making. Design research methodologies are explored as a way of further engendering critical thinking about the way designers engage in critical landscape architectural practice.

**Prerequisites:** DEB103 or DAB110 or DNB101 or DTB101. DEB103 can be studied in the same teaching period as DLB130  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DLB210 LANDSCAPE DESIGN 2**
This design studio introduces landscape design within the context of the urban environment. Basic design concepts such as space, effects and qualities are explored. It also introduces the use of plants as a design material. There is a concentration on communication and graphic skills in the development of a personal design process. These preliminary explorations provide a foundation for later design studios.

**Prerequisites:** DLB130  
**Equivalents:** PSB421  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DLB230 LANDSCAPE HORTICULTURE**
This design unit, supported by an introduction to plant ecology, explores three themes: (a) toxic remediation of waste and contaminated land and treatments including physical interventions and the role of environmental artists; (b) perma/horti/agri-culture - sustainable productive horticultural design and management and the ethnobotanical and traditional organic horticultural practices that are the foundation of 'permanent agriculture' ('Permaculture'); and (c) landscape art in Australia - Indigenous and Non-indigenous landscape art, environmental art and land art. Continued development of graphics skills in design exploration and communication is integrated into the program. It is block taught in the second half of the semester.

**Equivalents:** PSB441  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DLB310 LANDSCAPE DESIGN 3**
This unit introduces you to the theory behind spatial design and place-making. It also introduces design research and inquiry methods. In particular, it encourages you to examine the ways that people use, perceive and value places and environments. The unit teaches you to explore design research methodologies, and apply design skills to place-making.

**Prerequisites:** DLB210  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DLB330 LANDSCAPE ECOLOGY**
An understanding of physical geography, geomorphology and the theoretical concepts of landscape ecology as a spatial analysis and design tool underpin this unit. It concentrates on understanding spatial and functional heterogeneity in all landscapes from the 'natural' to the 'developed' by recognising that they share a similar structural and functional model. The unit comprises three content strands: (a) Landscape Structures; (b) Landscape Systems and Processes; and (c) Landscape Development. These theoretical concepts studied in each of these strands are applied in the analysis and redesign of a dynamic real world landscape.

**Equivalents:** PSP263  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DLB410 LANDSCAPE DESIGN 4**
In this unit, students will investigate an urban landscape in order to explore, understand and apply the principles and processes of site planning. These include: the development of a project brief, the understanding and articulation of site user needs, the undertaking of a site appraisal, the development and analysis of design concept options, and the final development of a site plan.

**Prerequisites:** DLB310  
**Equivalents:** PSB441  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DLB430 LANDSCAPE CONSTRUCTION 1**
This studio is complementary to DLB410 Landscape Design 4. The core of landscape architecture is the design of controlled change to landscapes. Design implementation requires the re-construction of the existing landscape into new forms. Landscape Construction 1 continues the landscape design process at a finer scale of detail and precision to resolve site regrading, management of surface water and preparing sites for planting new landscapes. It is inextricably linked to the processes of maintenance and management and is therefore one of the core skills landscape architects apply in order to meet sustainability objectives. This unit will develop technical graphic skills associated with manual and digital design communication.

**Equivalents:** PSB434  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DLB510 LANDSCAPE DESIGN 5**
This design unit builds on Landscape Design 4 and extends the theoretical and applied understanding of site analysis, planning and design processes. It develops skills in the artful, orderly, efficient, aesthetic, and ecologically sensitive arrangement of constructed objects and spaces on a site and their integration with the site's features, systems, spirit
of place and satisfying the needs and values of its intended users. Emphasis will be on the development of site specific design outcomes. Application of appropriate graphic communication in all forms will be integrated into the program. The unit will be block taught in the first half of the semester.

**Prerequisites:** DNB410  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DLB530 LANDSCAPE CONSTRUCTION 2**

This studio will build on the work of DLB510 Landscape Design 5. The unit introduces the properties and use of materials encountered in landscape construction and the processes of resolving and communicating design decisions as construction documentation. It includes principles of applied science and mechanics relating to the stability of site elements; graphic (manual and digital) skills required to explore construction problems and communicate required outcomes. It will require students to undertake effective research and evaluation of technical data and techniques available to the construction industry in seeking valid solutions to construction problems. The unit will be block taught in the second half of the semester.

**Prerequisites:** DLB430  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DLB630 LANDSCAPE CONSTRUCTION 3**

This unit will build on the work of previous design resolution units to take the student into the realm of construction of larger scale landscape elements. Topics include: the principles and practice of water sensitive urban design; design and construction of golf courses, swimming pools; and artificial lakes and earth dams; scope of contract documents; defining extent of works; set-out of works – horizontal and vertical; site clearing, demolition and environmental protection and noise control. The unit will also advance the principles and practice of contract documentation including writing contract and construction specifications.

**Prerequisites:** DLB530  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DLB645 LANDSCAPE PRACTICE AND LAW**

This unit develops understanding of government and non-government institutions that affect land and building development together with a more detailed understanding of specific legal and quasi-legal frameworks having influence on professional practice. Topics include: property with special reference to land ownership; land development applications under the Integrated Planning Act, tort, duty of care and the basis for professional liability; introduction to intellectual property; construction statutes, regulations, codes including the Building Code of Australia, standards and protocols, consultancy and construction contracts, and practice guides and law relating to practice.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DNB101 INDUSTRIAL DESIGN 1**

Industrial design revolves around the creation of products that satisfy human needs within the constraints of industrial and commercial production. This involves the manipulation of form with an understanding of structure, function, and beauty. Through projects students will be exposed to: basic design elements and principles; introduction to product visualisation techniques including concept sketching and marker rendering; design process and concept development; basic model making techniques; design presentation.

**Prerequisites:** DEB103 or DAB110 or DLB130 or DTB101. DEB103 can be studied in the same teaching period as DAB101  
**Equivalents:** ADB201  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1

**DNB201 INDUSTRIAL DESIGN 2**

This unit continues with the development of visual and creative thinking within the context of industrial design with special emphasis on the development of product form. Through projects students will be exposed to: aesthetic aspects of products; design process and concept development; product visualisation techniques including concept sketching and marker rendering; model making and basic photographic documentation skills; design presentation.

**Prerequisites:** DNB101  
**Equivalents:** ADB202  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**DNB202 PRODUCT USABILITY**

The professional designer designs principally for others and not primarily by personal preference. Therefore an understanding of the breadth of physical and cognitive needs and capabilities of people is vital to the development of useable products. This unit provides the basis for a user-centred design philosophy built upon an understanding of people and their capabilities and knowledge and experience to integrate advanced human factors and usability concepts into the industrial design process. The content covered in this unit includes: anthropometrics; principles of physical and cognitive ergonomic requirements of special needs groups; human error; usability principles; usability evaluation methods and user testing techniques.

**Prerequisites:** DNB101  
**Equivalents:** ADB212  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2
DNB301 INDUSTRIAL DESIGN 3
This unit offers creative opportunities to design and develop new and innovative products in the field of industrial design. It uses design research and methodologies found in biomimicry (study of nature’s principles) to inspire new ideas for future (green) markets. It proposes innovative design thinking in keeping with sustainable practices both in the built and natural environments. Analysis of future global markets lead to design projects that engage with issues of context, biometrics, technology and design principle transfers from nature; all form part of the unit content. Learning and teaching activities are spread across lectures, tutorials, workshops and studio based practices.
Prerequisites: DNB101 Equivalents: ADB203 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DNB302 COMPUTER AIDED INDUSTRIAL DESIGN
Once an Industrial Designer has completed the conceptual design stage of a project the details required for manufacture need to be resolved and prototypes made. It is at this stage that Computer Aided Design (CAD) is used. 3D CAD allows the details of the design to be resolved. Rapid prototypes can be made directly from the CAD data for design testing and verification. Modifications to the CAD data can be made quickly. Once the design is satisfactory, the 3D CAD models can then be used to generate photo-realistic images and engineering drawings so that the new product can be manufactured.
Equivalents: ADB245 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DNB303 MANUFACTURING TECHNOLOGY
Manufacturing technology is integral to industrial design and is a basic knowledge requirement to build upon throughout the course. Design for manufacturing allows both the analysis and application of manufacturing principles to product design and development. The knowledge gained in this unit allows the designer to develop a sound awareness of the relationship between design and manufacturing. The content covered in this unit includes: electronics; plastics; production techniques in relation to different materials; forming; finishing operations; production costs; technical documentation and communication.
Equivalents: ADB233 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DNB401 INDUSTRIAL DESIGN 4
Industrial design advances design knowledge gained in DNB201 Industrial design 2. The unit introduces how various design processes interact, in complex problems such as sustainable transportation systems. Through collaborative projects students will be exposed to: design research; design innovation; communication skills; integration of design processes, manufacturing technologies and application transfer of design principle mechanisms to solve real world problems.

DNB305 SOCIOCULTURAL STUDIES
An understanding of people and their cognitive and emotive relationship with the world is essential for designing responsive products and environments. This unit encourages a diversity of knowledge to gain a broader perspective of cultural economy and understand better the designer's interaction with society and diverse cultures. The content covered in this unit includes: psychological implications of everyday human-artefact interactivity; environmental and cultural perception; psychological implications and attitudes imbedded in product semantics and symbols; personal space and territoriality; the role of designer in responding to the manifestations and dictates of society including market forces, political determinants and socio-cultural relationships within a modern/post modern context.
Credit points: 12 Contact hours: 3 Campus: Gardens Point Teaching period: 2010 SEM-1

DNB502 INDUSTRIAL DESIGN HISTORY, THEORY AND CRITICISM
This unit offers creative opportunities to design and develop new and innovative products in the field of industrial design. It uses design research and methodologies found in biomimicry (study of nature’s principles) to inspire new ideas for future (green) markets. It proposes innovative design thinking in keeping with sustainable practices both in the built and natural environments. Analysis of future global markets lead to design projects that engage with issues of context, biometrics, technology and design principle transfers from nature; all form part of the unit content. Learning and teaching activities are spread across lectures, tutorials, workshops and studio based practices.
Prerequisites: DNB101 Equivalents: ADB203 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DNB602 NEW PRODUCT DEVELOPMENT
The unit will focus on the introduction of new products into the market. It will provide the students with an overview of the relationship between product design and commercialisation. It will provide an overview of strategy development where the aim is to meet consumer expectations, whilst achieving corporate objectives. The
major topics covered in this unit include:
• new product development process
• idea generation
• strategic planning
• introduction to marketing
• product screening and evaluation
• commercialisation and post launch review

Equivalents: ADB235 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2010 SEM-2

DTB101 INTERIOR DESIGN 1
This unit provides foundational material for the study of interior design. Students will be introduced to design theory, methodology and aesthetics. Design will be explored as an interpretive process. Topics covered in the context of projects for the unit include: The studio as a way of learning; Introductory design exercises exploring two and three dimensional elements as they relate to the interior design context; Freehand sketching, principles of perspective; Mechanical drawing, principles of scaled drawing; Presentation and visual communication skills; Environmental issues and sustainability.

Prerequisites: DEB103 or DAB110 or DLB130 or DNB101. DEB103 can be studied in the same teaching period as DTB101

Equivalents: ADB101 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DTB201 INTERIOR DESIGN 2
This unit introduces the student to design in three dimensional spaces of relevance to the practice of interior design and with a particular emphasis on the socio-cultural relations between people and the environment. The unit aims to foster an understanding of design not only as a language of exploration and communication but also as an activity addressing person-environment interaction in a certain way. Topics covered in the context of projects for the unit include: Introduction to characteristics of design problems; Methods to generate and test design proposals; Creativity and innovation relative to contextuality; Presentation methods, techniques and materials used to generate and communicate design ideas; Relevant design history.

Equivalents: ADB102 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-2

DTB202 DESIGN TECHNOLOGY
In this unit students will acquire an understanding of the interconnection between technological changes, inventiveness, social context and interior design. Topics covered in this unit include: Interior design in relation to structural systems, materials, technologies and relevant legislation with specific emphasis on domestic building construction; Skills associated with observation, research, and communication; Ergonomic principles, site measure, tracking examples of construction, identification of types of structures; Measurement and recording of building environments and documentation incorporating 2D CAD.

Equivalents: ADB122 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-2

DTB301 INTERIOR DESIGN 3
The aim of this unit is to facilitate students to develop an applied understanding of transition, interiority and building character in relation to interior design. This will be achieved through the integration of technological, psychosocial and experiential knowledge and theory with applied design approaches. Student learning will be facilitated in an holistic approach to the design issues. Topics covered in the context of projects for the unit include: Design methodology, skills, strategies, alternative processes; Documentation ranging from the conceptual to design development; Finishes, fittings and furnishings; Relevant design history; Relevant technological, psycho-social and experiential theory; Environmental issues and sustainability.

Prerequisites: DTB201

Equivalents: ADB103 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DTB302 COLOUR STUDIES
This unit includes studies of the interdependence of light and colour, the physical properties of colour, the psychological and cultural dimensions of colour, and colour and its relationship with expression and aesthetics as it applies to the interior design context. Topics covered in this unit include: Colour properties, harmony and contrast; Mixing and application of colour; Qualitative effects of colour and light on interior form and space; Symbolic, physiological and psychological aspects of colour within historical and contemporary contexts.

Equivalents: ADB152 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point Teaching period: 2010 SEM-1

DTB303 TECHNICAL DESIGN
In this unit students will acquire an understanding of the wide variety of commercial building interior systems related to the interior design industry. Topics covered in this unit include: Materials and tectonics, drafting conventions, technical site analysis and recording methods, introduction to ergonomics, codes and standards, introduction to commercial joinery and documentation techniques, and graphics and presentation approaches for communication. In addition 2D CAD skills will be progressed within this unit.

Assumed knowledge: DTB202 is assumed knowledge.
DTB502 ENVIRONMENTS IN TRANSITION
In this unit, the 19th century era will be used as a frame-of-reference for deconstructing both space and design artefact to understand the social and cross-cultural influences upon design production. Various theoretical perspectives and case studies will be used to explore this historical reference and further explore parallels with contemporary design practice. In addition, it will introduce how the cross-cultural migration of ideas and design approaches can be creatively translated and transformed to inform innovative design outcomes particular to the contemporary context.

Equivalents: ADB123
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2010 SEM-1

DTB602 DESIGN IN SOCIETY
This unit adopts a social science viewpoint in addressing social and cultural aspects of significance to interior designers. Some of these aspects include action and interaction, socialisation, ethnicity and race, control, and socio-cultural and indigenous issues of relevance to interior designers. Other topics covered in this unit include:

- Australia and the contemporary world
- Bureaucracy and organisations
- Mass media
- Technology
- Globalisation and regionalism

Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point
Teaching period: 2010 SEM-1

KCB201 NEW MEDIA 1: INFORMATION AND KNOWLEDGE
This unit provides both a critical and conceptual introduction to the issues arising from the emergence of 'virtual communities', and a practical introduction to the skills and competencies required for the development and maintenance of successful online social networks. It considers issues arising from the development of online communities from the perspectives of corporate cultures and public or civic action, as well as questions of community, identity and social inequality in Internet culture, conflict management, and ethical and privacy issues on the Web.

Assumed knowledge:
- * advanced academic writing skills
- * advanced research and referencing skills in offline and online contexts
- * good working knowledge of the Web and other new media technologies
- * some practical experience using blogs, wikis, and/or social networking

Websites as a reader and/or contributor
- ability to conduct academic work independently and in...
groups

Assumed knowledge: KKB101, KKB102, and advanced academic writing, research and referencing skills in offline and online contexts. Equivalents: KCB295

Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

KIB103 INTRODUCTION TO WEB DESIGN AND DEVELOPMENT

This unit provides an introduction to theories and skills underpinning the application of multimedia technology with the Creative Industries, providing a foundation of conceptual and practical skills related to contemporary modes of electronic hypermedia production, communication and publishing.

Antirequisites: INB271, KIP403  Equivalents: KIB807, KKB007, KKB818  Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1