Built Environment and Design

Year offered: 2011
Admissions: Yes

If your course rules allow, you may be able to choose to study a minor from another area of the University. Minors are sets of related units in a particular study area.

The introductory units in each minor have no prerequisites. Later units may have earlier units as prerequisites. Depending on class timetabling it may not be possible to complete all units in a University Wide Minor. Consult with your course coordinator and relevant discipline coordinators prior to undertaking interfaculty studies.

The units you complete in a University Wide Minor will appear on your academic transcript but the successful completion of a minor will only be shown if it exists as an option in your course.

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
KIB103 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

Sustainability unit set

Specialisation Units:
BEB901 Retrofitting for Sustainability

BEB902 Greening the Built Environment
BEB903 Greenhouse Solutions
BEB904 Eco-Innovation for Sustainability
BEB213 Sustainable Design Systems

Work Integrated Learning Units:
BEB701 Work Integrated Learning 1
BEB702 Work Integrated Learning 2

Multi-disciplinary Project Units (must address sustainability objectives):
BEB801 Project 1
BEB802 Project 2

[ Bachelor of Design students must adhere to rules at: http://www.bee.qut.edu.au/study/current/2majors/minors/facultyminors.jsp#f4. ]

Architectural Studies unit set

Select 48cp from:
DEB103 Visualisation 1
DEB202 Introducing Design History
DEB203 Visualisation 2
DAB110 Architectural Design 1
DAB210 Architectural Design 2
DAB220 Placemaking in Architecture
DAB310 Architectural Design 3
DAB325 Architecture in the 20th Century
DAB330 Integrated Technologies 1
DAB410 Architectural Design 4
DAB420 Architecture, Culture and Space
DAB435 Architectural Technology 1
BEB801 Project 1

(BEB801 Requires announced School of Design project or activity.)

Industrial Design Studies unit set

Select 48cp from:
DEB100 Design and Sustainability
DEB103 Visualisation 1
UNIT SYNOPSIS

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: DE40/ UD40 students completion of Yr 1 units; EN40 students completion of Yr 1 & 2 units. Additionally, for all students, working knowledge of 3D CAD software for your discipline, demonstrated by completion of one unit utilising 3D CAD or equivalent. Credit points: 12

Contact hours: 3 per week Campus: Gardens Point Teaching period: 2011 SEM-1

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: DE40/ UD40 students completion of Yr 1 units; EN40 students completion of Yr 1 & 2 units. Additionally, for all students, working knowledge of 3D CAD software for your discipline, demonstrated by completion of one unit utilising 3D CAD or equivalent. Credit points: 12
**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:** 2011 SEM-1

**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:** DE40/ UD40 students completion of Yr 1 units; EN40 students completion of Yr 1 & 2 units. Additionally, for all students, working knowledge of 3D CAD software for your discipline, demonstrated by completion of one unit utilising 3D CAD or equivalent.  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**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, 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; workplace, health and safety; professional conduct; ethical responsibility, and other aspects of your work place experience.  
**Assumed knowledge:** This unit is not designed for first year students. It is recommended that you check WIL Community Blackboard site for information on enrolment pattern. If you are EN40 student you can only enrol after completing a minimum of 192 cp.  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 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:** 2011 SEM-1 and 2011 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:** 2011 SEM-1 and 2011 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  Teaching period: 2011 SEM-1

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

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. Analysis of the constructed environment leads to a number of design projects that engage with issues of context, tectonics, planning, form, and spatial quality. 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: DEB103 or DLB130 or DNB101 or DTB101. DEB103 can be studied in the same teaching period as DAB110  Equivalents: ADB001  Credit points: 12

Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

DAB210 ARCHITECTURAL DESIGN 2
This unit offers a focused introduction to the field of design through engagement with the explicit process of design as 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 is 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 and (DEB203 or DLB210 or DNB201 or DTB201). DEB203 can be studied in the same teaching period as DAB210  Equivalents: ADB002  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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.
Assumed knowledge: DEB103 is assumed knowledge
Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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: 2011 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: 2011 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: 2011 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 place, time and makers. This unit aims to promote awareness of how architecture is both a product and an emblem of socio-cultural conditions. In particular it explores the interdependency between how architecture is conceived and made, and the way people structure their worldview and organise their institutions in a range of cultural contexts and settings.
Assumed knowledge: DAB220 is assumed knowledge.
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 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: 2011 SEM-2

DEB100 DESIGN AND SUSTAINABILITY
This unit, with its special focus on the role and impact of designers to shift society toward a more environmentally sustainable way of living, introduces you to essential academic and professional skills and practices for learning to become a designer.
Antirequisites: ENB100
Equivalents: BEB100 and UDB100
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

DEB103 VISUALISATION 1
Designers work in three dimensions and thus employ a variety of tools to think about and communicate three-dimensional ideas. This unit introduces you to the skills and techniques you’ll need to support this design visualisation with a focus on analogue media, drawing skills and simple model making. Some of them are common to all the disciplines in the course while others are specific to one or more disciplines of architecture, industrial design, interior design and landscape architecture.
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

DEB202 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, DEB102  Credit points: 12
Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

DEB203 VISUALISATION 2
DEB103 Visualisation 1 introduced you to the skills and techniques needed to support design visualisation with a focus on analogue media and drawing skills. This unit continues that process and integrates digital and analogue approaches. Content will be divided between common and discipline specific techniques and traditions.

Prerequisites: DEB103  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

DLB130 LANDSCAPE DESIGN 1
This unit is the first landscape design studio. It will begin your skill building in design processes and theory on which subsequent studios will build. It will focus on applying the representational techniques covered in the allied unit DEB103 Visualisation 1.

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: 2011 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 and (DEB203 or DAB210 or DNB201 or DTB201). DEB203 can be studied in the same teaching period as DLB210  Credit points: PSB421
Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

DLB230 LANDSCAPE HORTICULTURE
This unit introduces the fundamentals of plant science, ecology and horticulture, especially within a local southeast Queensland context. This theoretical knowledge will be applied to a simple planting design project.

Equivalents: PSB442  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

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: 2011 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: 2011 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: 2011 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
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:** DLBS50  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 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:** 2011 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 DNB101  
**Equivalents:** ADB201  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 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 and (DEB203 or DAB210 or DLB210 or DTB201). DEB203 can be studied in the same teaching period as DNB201.  
**Equivalents:** ADB202  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 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:** 2011 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:** 2011 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 photorealistic 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:** 2011 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:** 2011 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.

**Prerequisites:** DNB201  
**Equivalents:** ADB204  
**Credit points:** 12  
**Contact hours:** 4  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**DNB402 SOCIO-CULTURAL 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 culture, understand how issues of culture influence product design and the designer’s interaction with society and diverse cultures. The content covered includes: theoretical perspectives of culture, psychological implications of everyday human-artefact interactivity, environmental and cultural perception, changing socio-cultural landscapes, ageing population, sustainability and globalisation, potential for design to advance social changes and quality of life, and psychological implications and attitudes imbedded in product semantics and symbols.  
**Credit points:** 12  
**Contact hours:** 3  
**Campus:** Gardens
DNB502 INDUSTRIAL DESIGN HISTORY, THEORY AND CRITICISM
This unit provides students with the opportunity to become aware of theoretical and historical discourse in industrial design and to debate innovative and advanced ideas and critical thinking in the field internationally. It provides a framework in which students can locate their individual design activities. The content covered in this unit includes:
• contemporary history of industrial design
• relationship between social and technological change and industrial design
• contemporary design theory and discourse
• criticism methodology
• writing about design
• learning to critique design
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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
Equivalent: ADB235  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

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.
Prerequisites: DTB101 and (DEB203 or DAB210 or DLB210 or DNB201). DEB203 can be studied in the same teaching period as DTB201. Equivalents: ADB102  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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.
Equivalent: ADB122  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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: 2011 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: ADP152  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point  Teaching period: 2011 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.

Prerequisites: DTB202  Equivalents: ADB123  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

DTB401 INTERIOR DESIGN 4
The aim of this unit is to facilitate students to develop a deep understanding of dual function relationships in interior design in relation to person-environment interactions. This will be achieved through the integration of technological, psycho-social and experiential knowledge and theory specific to those contexts. Learning will be facilitated in order that a holistic approach is implemented. Students will be encouraged to define tasks, research possibilities, integrate theory and explore resolutions in a self-directed manner. 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; Schedules and specification; Finishes, fittings and furnishings; Relevant design history; Relevant technological, psycho-social and experiential theory; Environmental issues and sustainability.

Prerequisites: DTB301  Equivalents: ADB104  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

DTB402 INTERIOR SYSTEMS
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
* 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: 2011 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: 2011 SEM-1