



# EDSE12027 *Industrial Design Processes*

## Term 1 - 2017

Profile information current as at 04/05/2024 06:24 am

All details in this unit profile for EDSE12027 have been officially approved by CQU University and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

## General Information

### Overview

This unit focuses on the development of the requisite skills for cabinet making. Through practical workshops, you will apply the knowledge and skills of cabinet making necessary to teach Industrial Technology and Design in the senior years of schooling (10 - 12). You will design, develop, create, adapt and evaluate projects utilising critical aspects of knowledge of the industrial design processes for cabinet making.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 7

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

There are no requisites for this unit.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

### Offerings For Term 1 - 2017

- Distance

### Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

### Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

### Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

### Class Timetable

#### [Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

#### [Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

### Assessment Overview

#### 1. **Portfolio**

Weighting: 50%

#### 2. **Practical Assessment**

Weighting: 50%

### Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the [CQUniversity Policy site](#).**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

## Previous Student Feedback

### Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

#### Feedback from Student feedback at Residential School

**Feedback**

Practical workshops at Residential School are excellent

**Recommendation**

Maintain intensive Residential School workshops

**Action**

Continued to develop content and learning experiences for Residential Workshops

## Unit Learning Outcomes

**On successful completion of this unit, you will be able to:**

1. Plan and develop a series of design based activities for construction.
2. Understand the use, development and impact of design concepts through the construction of a series of design based activities.
3. Apply appropriate problem solving procedures to enact the construction of a designed product.
4. Investigate how to plan, sequence, implement and assess design application processes used in the production of projects incorporated in the senior year's of industrial technology and design teaching area.
5. Recognise and apply basic skills sequences and procedures using design processes required for teaching cabinet making technologies.
6. Critically evaluate specific applications of tools and equipment used in the manufacture of products for cabinet making.
7. Apply appropriate workplace health and safety and maintenance practices when engaging in design and manufacturing activities.
8. Communicate and work professionally in peer learning teams.

Australian Institute for School Leadership (AITSL, 2013), Professional Standards for Teachers (Graduate Level):

Standard 2: Know the content and how to teach it

2.1 Content and teaching strategies of the teaching area; 2.2 Content selection and organisation

Standard 4: Create and maintain supportive and safe learning environments

4.4 Maintain student safety

Standard 6: Engage in professional learning

6.2 Engage in professional learning and improve practice; 6.3 Engage with colleagues to improve practice.

Standard 7: Engage professionally with colleagues, parents/carers and the community.

7.2 Comply with legislative, administrative and organisational requirements; 7.4 Engage with professional teaching networks and broader communities.



## Textbooks and Resources

### Textbooks

EDSE12027

#### Prescribed

#### Furnishing: An Industry Study

Edition: 4th edn (2014)

Authors: Baker, S & Schlyder, D

PCS Publications

Toowoomba , Queensland , Australia

ISBN: 9781876135874

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

#### You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

## Referencing Style

All submissions for this unit must use the referencing style: [American Psychological Association 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Brad Connolly** Unit Coordinator

[b.connolly@cqu.edu.au](mailto:b.connolly@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Early development of the furnishing industry in Australia and the structure of Australia's Furnishing Industry	Reading: Furnishing: An Industry Study pp.1-12 Complete Quiz	

### Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Safe Working polices & practices in the Furnishing Industry.	Readings: Furnishing: An Industry Study pp.29-63 Complete Quiz	

### Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Safe Identifying hand tools and hand tool safety.

Readings: Furnishing: An Industry Study pp.76-89  
Complete Quiz

#### Week 4 - 27 Mar 2017

Module/Topic

Chapter

Events and Submissions/Topic

Portable power tools.

Readings: Furnishing: An Industry Study pp.90-112  
Complete Quiz

#### Week 5 - 03 Apr 2017

Module/Topic

Chapter

Events and Submissions/Topic

Basic woodworking machines.

Readings: Furnishing: An Industry Study pp.113-140  
Complete Quiz

#### Vacation Week - 10 Apr 2017

Module/Topic

Chapter

Events and Submissions/Topic

Enjoy your break.

#### Week 6 - 17 Apr 2017

Module/Topic

Chapter

Events and Submissions/Topic

Materials. (timber, wood products, adhesives, hardware items, glass, plastics and surface finishes).

Readings: Furnishing: An Industry Study pp.141-185  
Complete Quiz

#### Week 7 - 24 Apr 2017

Module/Topic

Chapter

Events and Submissions/Topic

Different ways timber can be join using a range of joints and how to construct the joints.

Readings: Furnishing: An Industry Study pp.171-185  
Complete Quiz

#### Week 8 - 01 May 2017

Module/Topic

Chapter

Events and Submissions/Topic

Surface preparation, identifying and rectifying defects, selecting and applying stoppings and selecting suitable abrasive paper and using correct sanding methods.

Readings: Furnishing: An Industry Study pp.76-89  
Complete Quiz

#### Week 9 - 08 May 2017

Module/Topic

Chapter

Events and Submissions/Topic

Revision Part A.

Revisit past readings: Furnishing: An Industry Study.  
Complete Quiz

#### Week 10 - 15 May 2017

Module/Topic

Chapter

Events and Submissions/Topic

Revision Part B.

Revisit past readings:  
Furnishing: An Industry  
Study.  
Complete Quiz

#### Week 11 - 22 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review readings and complete Assignment 1B.		

#### Week 12 - 29 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
Assignment 1B due 02/06/2017	Assignment 1B due 02/06/2017	<b>Portfolio</b> Due: Week 12 Friday (2 June 2017) 5:00 pm AEST

#### Review/Exam Week - 05 Jun 2017

Module/Topic	Chapter	Events and Submissions/Topic
Compulsory Residential School 03/07/17 to 05/07/17 if needed 06/07/17 to 08/07/17 at CQUniversity Rockhampton City Campus. The central aim of this course is to provide an understanding of design principles and their application towards problem solving pedagogy in a technology context, whether that be in a theory classroom or workshop. Further development of students hand skills.		

#### Exam Week - 12 Jun 2017

Module/Topic	Chapter	Events and Submissions/Topic
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## Assessment Tasks

### 1 Portfolio

#### Assessment Type

Portfolio

#### Task Description

### Assessment Item 1 A

#### 10 Multi-Choice Quizzes: 20% total marks

Quizzes will be based on weekly readings from the assigned text book. Quizzes will be available on the Moodle website each Monday and remain open until the following Monday at midnight. Students will be allowed a maximum of 1 hour and two attempts to complete each quiz. The highest scoring attempt will be used for grading.

Please note that results from all 10 quizzes contribute to the overall mark of 20%

## **Assessment Item 1B**

**Written Assignment:** Unit Plan due: 02/06/17 **30%** total marks

Students are required to develop a Unit Plan and Project suitable for either a Year 11 or Year 12 Furnishing class.

The assignment will consist of a **Unit Plan** that has a: **Rationale** for the Project, what **Year Level** the Project is targeting, an accurate **Dimensioned Working Drawing** of the Project, a **Detailed Work Procedure, Lesson Plans** for the duration of the Project and a **Criteria Sheet**.

**An example of a suitable unit plan has been made available under the Resources Tab on the Moodle Website.**

### **Assessment Due Date**

Week 12 Friday (2 June 2017) 5:00 pm AEST

Written Assignment: Unit Plan due: 02/06/17

### **Return Date to Students**

Assessment will be returned after moderation and grade certification

### **Weighting**

50%

### **Assessment Criteria**

Students are assessed on the following criteria:

- Ability to present graphical information
- Ability to express and develop an idea
- Ability to present work effectively

### **Referencing Style**

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

### **Submission**

Online

### **Submission Instructions**

Students are to upload their assessment in the course Moodle Site

### **Learning Outcomes Assessed**

- Plan and develop a series of design based activities for construction.
- Understand the use, development and impact of design concepts through the construction of a series of design based activities.
- Apply appropriate problem solving procedures to enact the construction of a designed product.
- Investigate how to plan, sequence, implement and assess design application processes used in the production of projects incorporated in the senior year's of industrial technology and design teaching area.
- Recognise and apply basic skills sequences and procedures using design processes required for teaching cabinet making technologies.
- Critically evaluate specific applications of tools and equipment used in the manufacture of products for cabinet making.
- Apply appropriate workplace health and safety and maintenance practices when engaging in design and manufacturing activities.

### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice



## 2 Residential School

### Assessment Type

Practical Assessment

### Task Description

#### **Practical Assessment:** Compulsory Residential School

Residential school introduces students to learning experiences and projects which target Engineering. Students will be using hand tools, machinery and equipment. Residential School gives students the opportunity to develop their hand skills, knowledge & understanding of workshop procedures and processes. Students will be assessed on the quality and presentation of their projects, in addition to their knowledge and understanding and application of workshop processes, and their ability to work independently with limited assistance.

### Assessment Due Date

Compulsory Residential School 03/07/17 - 05/07/17 if needed 06/07/17 - 08/07/17

### Return Date to Students

Results returned at end of Residential School

### Weighting

50%

### Assessment Criteria

Students will be assessed over the Res School in relation to the following:

- Practical expertise
- Quality and presentation of their projects
- Knowledge and understanding and application of workshop processes
- ability to work independently with limited assistance

### Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

### Submission

Offline

### Submission Instructions

Assessment undertaken throughout the Res School

### Learning Outcomes Assessed

- Plan and develop a series of design based activities for construction.
- Understand the use, development and impact of design concepts through the construction of a series of design based activities.
- Apply appropriate problem solving procedures to enact the construction of a designed product.
- Investigate how to plan, sequence, implement and assess design application processes used in the production of projects incorporated in the senior year's of industrial technology and design teaching area.
- Recognise and apply basic skills sequences and procedures using design processes required for teaching cabinet making technologies.
- Critically evaluate specific applications of tools and equipment used in the manufacture of products for cabinet making.
- Apply appropriate workplace health and safety and maintenance practices when engaging in design and manufacturing activities.
- Communicate and work professionally in peer learning teams.

### Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence

- Cross Cultural Competence
- Ethical practice

## Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

### Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

### What can you do to act with integrity?



#### Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



#### Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



#### Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem