



EDSE11022 Timber Technology and Design

Term 2 - 2017

Profile information current as at 13/05/2024 11:45 am

All details in this unit profile for EDSE11022 have been officially approved by CQUniversity 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 provides an introduction to product design and development using a major natural resource, timber. It includes graphical design processes and occupational health and safety considerations in the demonstration of practical and theoretical knowledge and skills that are necessary to teach Industrial Technology and Design in the middle years of schooling (7-10). Knowledge and understanding of timber as a renewable natural resource, and its use in production processes will be gained through working with industrial machinery, digital and hand tool technologies. Students will design, develop, adapt and evaluate projects utilising critical aspects of knowledge about timber, and develop hands-on skills of working with timber-based materials.

Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

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 2 - 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. **Written Assessment**

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 and Course Evaluation.

Feedback

Practical Workshop at Residential School are very good and provide lots of helpful learning experiences.

Recommendation

Maintain intensive residential Schools Workshops.

Unit Learning Outcomes

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

1. Apply theories of using timber as a renewable resource and the technological processes used to produce timber-based materials underpinning the content of middle years Industrial Technology and Design teaching.
2. Investigate how to plan, sequence, implement and assess timber materials used in the production of projects incorporated in the middle years industrial technology and design teaching area.
3. Recognise and apply basic skills sequences and procedures using design processes required for teaching timber technologies to school students in Years 7-10.
4. Critically evaluate specific applications of tools and equipment used in the production of timber technologies in the Middle Years of Learning.
5. Apply Occupational Health and Safety legislation in the school work place.
6. Analyse preferred implementation processes for the design of timber technologies through sequenced processes.
7. Demonstrate a professional capacity to communicate, work and learn, individually and 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

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Written Assessment - 50%	●	●	●	●	●	●	●
2 - Practical Assessment - 50%	●	●	●	●	●	●	●

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Communication	•	•	•	•	•	•	•
2 - Problem Solving	•	•	•	•	•	•	•
3 - Critical Thinking	•	•			•	•	•
4 - Information Literacy		•	•		•	•	•
5 - Team Work			•		•	•	•
6 - Information Technology Competence				•		•	•
7 - Cross Cultural Competence				•	•		•
8 - Ethical practice					•		•
9 - Social Innovation							
10 - Aboriginal and Torres Strait Islander Cultures							

Alignment of Assessment Tasks to Graduate Attributes

[illegible]

Textbooks and Resources

Textbooks

EDSE11022

Prescribed

Workshop technologies for schools: A combined study

Edition: 1 (2012)

Authors: Baker, S & Schlyder, D

PCS Publications

Toowoomba, QLD, Australia

ISBN: 978-1-876135-91-1

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

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Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Timber & their Products, Pages 11-29 View YouTube Clips Complete Weekly Quiz	Assessment task 1: Part A continues each week till week 12 Quiz 1 (2%)

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Timber & their Products, Pages 11-29 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A: Quiz 2 (2%)

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Manufacturing Boards, Pages 30 - 40 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A: Quiz 3 (2%)

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Reading: Workshop technologies for Schools: A Combined Study	Tools & Machines, Pages 41 - 49 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz 4 (2%)
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Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Power Tools & Wood Lathe, Pages 50 - 61 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz5(2%)

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Wood Work Term & Joints, Pages 62 - 71 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A Quiz 6 (2%)

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Fixing & Finishing Process, Pages 72 - 81 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz 7 (2%)

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Plastics, Pages 82 -97 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz 8 (2%)

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Design & Planning, Health & Safety in the Workshop, Pages 98-104 & Pages 1 - 10 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz 9 (2%)

Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Compulsory Residential School	1st Residential School: Mon 18/9 to Wed 20/9 2nd Residential School: Thur 21/9 to Sat 23/9 8.00am to 5.00pm	Practical Projects due at the end of each Residential School

Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Reading: Workshop technologies for Schools: A Combined Study	Revision, Pages 11 - 104 View YouTube Clips Complete Weekly Quiz	Assessment task 1 Part A:Quiz 10 (2%) Residential School Attendance & Participation Due: Week 11 Monday (25 Sept 2017) 6:00 pm AEST

Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Assessment Task 1B due 6-10-2017

Assessment Task 1B Due 6-10-2017

Multi-Choice Quizzes and Written Assessment Task Due: Week 12
Friday (6 Oct 2017) 5:00 pm AEST

Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
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Assessment Tasks

1 Multi-Choice Quizzes and Written Assessment Task

Assessment Type

Written Assessment

Task Description**Multiple -Choice Quizzes**

There are 10 **Multiple -Choice Quizzes** 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 60 minutes and 2 attempts to complete each quiz.

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

Assessment Task 1 : Part B Written Assignment

Unit Plan: Due: 5.00pm 06/10/2017 **30%** total marks

Students are required to develop a Unit Plan and a project suitable for a Year 7-10 student cohort in a Woodwork Workshop.

The assignment will consist of a:

- **Rationale** for the Project
- What **Year Level** the Project is targeting
- An accurate **Dimensioned Working Drawing** of the Project
- A **Detailed Work Procedure**
- A **Criteria Sheet**.

Further details of the written assignment will be provided during the Residential School.

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 (6 Oct 2017) 5:00 pm AEST

Return Date to Students

Exam Week Friday (20 Oct 2017)

Weighting

50%

Assessment Criteria

Quizzes Part A: Students will be allowed a maximum of 60 minutes 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%.

Written Assessment Part B: will be grade on the following criteria. Further details will be supplied on Moodle

- 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

Learning Outcomes Assessed

- Apply theories of using timber as a renewable resource and the technological processes used to produce timber-based materials underpinning the content of middle years Industrial Technology and Design teaching.
- Investigate how to plan, sequence, implement and assess timber materials used in the production of projects incorporated in the middle years industrial technology and design teaching area.
- Recognise and apply basic skills sequences and procedures using design processes required for teaching timber technologies to school students in Years 7-10.
- Critically evaluate specific applications of tools and equipment used in the production of timber technologies in the Middle Years of Learning.
- Apply Occupational Health and Safety legislation in the school work place.
- Analyse preferred implementation processes for the design of timber technologies through sequenced processes.
- Demonstrate a professional capacity to communicate, work and learn, individually and in peer learning teams.

Graduate Attributes

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

2 Residential School Attendance & Participation

Assessment Type

Practical Assessment

Task Description

Due to large student numbers there will be two Compulsory Residential Schools. The 1st Compulsory Residential School will run from the Monday 18/9/2017 to Wednesday 20/9/2017 and the 2nd Compulsory Residential School will run from Thursday 21/9/2017 to Saturday 23/9/2017.

Residential school introduces students to projects which target the junior year levels. Students will be using hand tools, machinery and equipment to fabricate five projects. Residential School provides students the opportunity to develop their hand skills, knowledge & understanding of workshop procedures and processes.

Assessment Due Date

Week 11 Monday (25 Sept 2017) 6:00 pm AEST

All tasks completed over the duration of the Residential School

Return Date to Students

Week 12 Friday (6 Oct 2017)

After the Residential School through Moodle

Weighting

50%

Assessment Criteria

Students will be assessed on the quality and presentation of their five projects, in addition to their knowledge and understanding and application of workshop processes, and their ability to work independently with limited assistance.

Referencing Style

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

Submission

Offline

Submission Instructions

In class at the Residential School

Learning Outcomes Assessed

- Apply theories of using timber as a renewable resource and the technological processes used to produce timber-based materials underpinning the content of middle years Industrial Technology and Design teaching.
- Investigate how to plan, sequence, implement and assess timber materials used in the production of projects incorporated in the middle years industrial technology and design teaching area.
- Recognise and apply basic skills sequences and procedures using design processes required for teaching timber

technologies to school students in Years 7-10.

- Critically evaluate specific applications of tools and equipment used in the production of timber technologies in the Middle Years of Learning.
- Apply Occupational Health and Safety legislation in the school work place.
- Analyse preferred implementation processes for the design of timber technologies through sequenced processes.
- Demonstrate a professional capacity to communicate, work and learn, individually and 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