

Profile information current as at 13/05/2024 04:49 pm

All details in this unit profile for EDSE11023 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 knowledge of the origins, structure, characteristics, properties and uses of fabricated materials such as metal to construct and critically evaluate a range of products. It includes production 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 of this and other fabricated materials and their 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 and develop the hands-on skills of working with metal and other fabricated 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 1 - 2018

• 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 <u>Residential School Timetable</u>.

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 <u>University's Grades and Results Policy</u> 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 Students

Feedback

More information on Assessment 1B

Recommendation

Provide more information about Assessment 1B layout and an example.

Feedback from Student

Feedback

Have more than one location for Residential School

Recommendation

Identify possible locations.

Unit Learning Outcomes

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

- 1. Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- 2. Investigate processes used to produce fabricated materials that may be used in school-based projects
- 3. Explain relevant facility maintenance processes and procedures in a secondary school workshop
- 4. Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- 5. Apply Occupational Health and Safety legislation in the school work place
- 6. Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- 7. Demonstrate a professional capacity to communicate and work 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



Introductory |

Intermediate Level

Graduate

Professional

Advanced

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks Learning Outcomes

> 1 2 7

1	Assessment Tasks	Learning Outcomes								
2 - Practical Assessment - 50% Alignment of Graduate Attributes to Learning Outcomes Graduate Attributes Learning Outcomes 1 2 3 4 5 6 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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%		1	2	2	3	4	5	5	6	7
Alignment of Graduate Attributes to Learning Outcomes Graduate Attributes Learning Outcomes 1 2 3 4 5 6 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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	1 - Written Assessment - 50%	•	•	•	•	•	•)	•	•
Graduate Attributes Learning Outcomes 1 2 3 4 5 6 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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	2 - Practical Assessment - 50%	•	•	•	•	•	•	•	•	•
Graduate Attributes Learning Outcomes 1 2 3 4 5 6 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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	Alignment of Craduate Attributes to Learni	na Outco	mac							
1 2 3 4 5 6 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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 Written Assessment - 50%	-	ng Outco	nes		rning	y Out	come	es		
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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%									6	7
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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	1 - Communication			•	•	•	•	•		
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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	2 - Problem Solving			•	•	•	•	•	•	
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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	3 - Critical Thinking				•			•		•
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 Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	4 - Information Literacy				•	•				•
7 - Cross Cultural Competence 8 - Ethical practice 9 - Social Innovation 10 - Aboriginal and Torres Strait Islander Cultures Alignment of Assessment Tasks to Graduate Attributes Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	5 - Team Work					•		•	•	•
8 - Ethical practice 9 - Social Innovation 10 - Aboriginal and Torres Strait Islander Cultures Alignment of Assessment Tasks to Graduate Attributes Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	6 - Information Technology Competence						٠	Г	•	
9 - Social Innovation 10 - Aboriginal and Torres Strait Islander Cultures Alignment of Assessment Tasks to Graduate Attributes Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	7 - Cross Cultural Competence						•	•	Г	٠
10 - Aboriginal and Torres Strait Islander Cultures Alignment of Assessment Tasks to Graduate Attributes Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	8 - Ethical practice									•
Alignment of Assessment Tasks to Graduate Attributes Assessment Tasks Graduate Attributes 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	9 - Social Innovation									
Assessment Tasks 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%	10 - Aboriginal and Torres Strait Islander Cultures									
Assessment Tasks 1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%										
1 2 3 4 5 6 7 8 9 1 - Written Assessment - 50%					.					
1 - Written Assessment - 50%	ASSESSMENT TASKS					6	7		0	10
	1 - Written Assessment - 50%				, 			•	3	10
2 - Practical Assessment - 50%	2 - Practical Assessment - 50%									

Textbooks and Resources

Textbooks

EDSE11023

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: Hardcover

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: <u>American Psychological Association 6th Edition (APA 6th edition)</u>

For further information, see the Assessment Tasks.

Teaching Contacts

Brad Connolly Unit Coordinator

b.connolly@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Welcome /introduction. Reading: Junior Workshop A & B	Health and Safety in the Workshop, Pages 1 -10	Quiz (2%)
Week 2 - 12 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Metals- Classification, Properties & Heat Treatment, Pages 105 - 107	Quiz (2%)
Week 3 - 19 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Metals- Iron & Steel, Pages 107 - 112	Quiz (2%)
Week 4 - 26 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Metals- Sheet Steel Products & Sheet Steel Manufacture, Pages 112 - 118	Quiz (2%)
Week 5 - 02 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic

Reading: Junior Workshop A & B	Metals- Copper, Pages 118 - 122	Quiz (2%)
Vacation Week - 09 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Compulsory Residential School Monday 9th to Wednesday 11th April, 2nd Res School if needed Thursday 12th to Saturday 14th.		Compulsory Residential School: (50%)
Week 6 - 16 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic Quiz (2%)
Enjoy your break for this week.		Compulsory Residential School Due: Week 6 Monday (16 Apr 2018) 5:00 pm AEST
Week 7 - 23 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Metals- Aluminium, Pages 122 - 124	Quiz (2%)
Week 8 - 30 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Tools & Machines- Hand Tools, Metalwork Stakes & Portable Power Tools, Pages 125 - 138	Quiz (2%)
Week 9 - 07 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Tools & Machines- The Metal lathe & The Drilling Machine, Pages 138 -150	Quiz (2%)
Week 10 - 14 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Tools & Machines- Seams and Edges & Joining with rivets and screws, Pages 150-154	Quiz (2%)
Week 11 - 21 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Reading: Junior Workshop A & B	Tools & Machines- Soft soldering, Art Metalwork & Decorative Surface Finishing, Pages 154 - 159	Quiz (2%)
Week 12 - 28 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Review Week		Quizzes and Unit Plan (30%) Due Friday 01 Jun 18, 5:00 PM AEST
Assessment 1B: Written Assignment due: 5.00pm, 01/06/18		Quizzes and Unit Plan Due Friday 01 Jun 18, 5:00 PM AEST Due: Week 12 Friday (1 June 2018) 5:00 pm AEST
Review/Exam Week - 04 Jun 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 11 Jun 2018		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Quizzes and Unit Plan Due Friday 01 Jun 18, 5:00 PM AEST

Assessment Type

Written Assessment

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 guizzes contribute to the overall mark of 20%

Assessment Item 1B

Written Assignment: Unit Plan due: 01/06/18 30% total marks

Students are required to develop a Project suitable for either a year 7, year 8, year 9 or year 10 student in a Metalwork workshop.

The assignment will consist of : 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.

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 (1 June 2018) 5:00 pm AEST

Week 12 Friday (01-Jun-2018) 5:00 PM AEST Quizzes are due Weekly and Part B is due Week 12

Return Date to Students

Exam Week Friday (15 June 2018)

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

- Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- Investigate processes used to produce fabricated materials that may be used in school-based projects
- Explain relevant facility maintenance processes and procedures in a secondary school workshop
- Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- Apply Occupational Health and Safety legislation in the school work place
- Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- Demonstrate a professional capacity to communicate and work in peer learning teams

Graduate Attributes

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

2 Compulsory Residential School

Assessment Type

Practical Assessment

Task Description

 $\textbf{Practical Assessment:} \ \ \text{Compulsory Residential School (9/04/18-11/04/18 \& if needed 12/04/18-14/04/18) 50\% total marks$

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 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 five 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

Week 6 Monday (16 Apr 2018) 5:00 pm AEST

Week 6 Monday (16-Apr-2018) 05:00 PM AEST Practical projects assessed over the duration of the Residential School

Return Date to Students

Week 6 Monday (16 Apr 2018)

Week 7 Monday (23-Apr-2018) Results finalised by the Week 7

Weighting

50%

Assessment Criteria

Students will be assessed over the residential in relation to the following:

- Practical expertise
- · Quality and presentation of their five 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

No submission method provided.

Submission Instructions

Hard copy Assessment undertaken throughout the residential

Learning Outcomes Assessed

- Apply theories of materials fabrication, specifically metal, underpinning the content of middle years industrial technology and design teaching
- Investigate processes used to produce fabricated materials that may be used in school-based projects
- Explain relevant facility maintenance processes and procedures in a secondary school workshop
- · Critically evaluate specific applications for metal working tools and equipment used in Middle Years of Learning
- Apply Occupational Health and Safety legislation in the school work place
- Analyse preferred implementation processes for working with fabricated materials through sequenced design processes
- Demonstrate a professional capacity to communicate and work 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 <u>Academic Learning Centre (ALC)</u> 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