

## In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



# AGRI13008 Agriculture Technology Transformation: The Future of Food and Fibre Term 2 - 2024

Profile information current as at 16/05/2024 08:50 am

All details in this unit profile for AGRI13008 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

In this unit you will explore advanced digital technologies and their application to agriculture. Agricultural technology (Agri-tech) is one of the fastest developing industries, with new innovations regularly becoming available to improve the understanding of agricultural systems and production and environmental sustainability. You will learn the basic concepts underpinning the operation of sensors, communication platforms and data management systems and will be exposed to both established and emerging technology innovations. You will use a wide range of agri-tech to collect and analyse data, and provide recommendations for application of the technology in the context of intensive and extensive plant and animal production industries. You will explore the social adoption, economic and legislative issues related to these rapidly developing technologies. As well as gaining a theoretical understanding, you will practise using a range of sensor hardware, software and analysis systems, providing you with essential skills as an agricultural professional.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 7

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

Students must have completed a minimum of 72 credit points to enrol in 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 - 2024

- Bundaberg
- Emerald
- Online
- Rockhampton

### 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).

### 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

#### 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 In class.

##### Feedback

Students appreciated the range of technologies discussed in class. They enjoyed the contributions provided by researcher experts.

##### Recommendation

Continue to engage domain experts from industry or research to provide cutting edge case studies, activities and discussion sessions.

#### Feedback from SUTE

##### Feedback

Students would like face to face classes.

##### Recommendation

Face to face online classes will continue to be offered each week. Students will be encouraged to attend these live where possible.

## Unit Learning Outcomes

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

1. Explain the basic principles and development of precision agriculture management for plant and animal production systems
2. Discuss the scientific concepts underpinning sensors and radio communication platforms
3. Explain how collecting, managing, analysing and visualising data can improve decision making in plant and animal production systems
4. Map and assess agricultural landscapes using appropriate technologies
5. Critique digital technologies and make specific recommendations for use in agricultural industries.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Online Quiz(zes) - 25%	•	•	•	•	•
2 - Portfolio - 35%			•	•	•
3 - Written Assessment - 40%	•		•	•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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	10
1 - Online Quiz(zes) - 25%	•	•	•	•		•		•		
2 - Portfolio - 35%	•	•	•	•		•		•		
3 - Written Assessment - 40%	•	•	•	•		•		•		

## Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 17 June 2024

## Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.