



# AGRI11002 Crop Management Systems

## Term 1 - 2018

Profile information current as at 10/05/2024 09:32 am

All details in this unit profile for AGRI11002 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 covers the fundamentals of crop production systems and is underpinned by the VET unit 'Manage agricultural crop production'. You will be introduced to a range of crop production systems including dry-land, irrigated, horticultural and orchard crops. The unit will use specific crop examples to demonstrate the fundamental factors that lead to growing a successful crop. You will be provided with an overview of crop physiology, crop nutrition and crop protection. The content of this unit will provide you with the necessary foundation for future units in the course.

#### 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

- Bundaberg
- Emerald
- Mixed Mode
- 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

#### 1. **Portfolio**

Weighting: 40%

#### 2. **Written Assessment**

Weighting: 40%

#### 3. **Practical and Written Assessment**

Weighting: 20%

### 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 Have you say - students feedback provided in Moodle.

##### Feedback

More time in the tutorials for mapping.

##### Recommendation

The mapping is a component of the Whole Farm Plan. CQU and QATC staff will revise this component.

#### Feedback from Have you say - students feedback provided in Moodle.

##### Feedback

Students suggested that the oral presentations prepared by the students and to be completed in the tutorial class should be uploaded into Moodle before the tutorial class.

##### Recommendation

This recommendation will be implemented next year. Student will ask to upload their presentations into Moodle before the tutorial.

#### Feedback from Have you say - students feedback provided in Moodle.

##### Feedback

More information and guidance is needed for the Natural Resource Management Plan.

##### Recommendation

The Natural Management Plan is a component of the Whole Farm Plan. CQU and QATC staff will revise this component.

## Unit Learning Outcomes

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

1. Determine management options and production targets for a cropping enterprise.
2. Select, test and implement appropriate crop innovations into farm activities.
3. Develop a whole of farm cropping management and risk mitigation plan.
4. Critique the environmental and legal requirements of crop management systems.

This unit will contribute to a Diploma of Agriculture upon successful completion of year 1.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Written Assessment - 40%	•	•		•
2 - Portfolio - 40%	•		•	
3 - Practical and Written Assessment - 20%		•	•	

## Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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 - Written Assessment - 40%	•	•		•	•					
2 - Portfolio - 40%	•		•	•		•		•		
3 - Practical and Written Assessment - 20%	•	•	•	•	•	•				

## Textbooks and Resources

### Textbooks

**There are no required textbooks.**

### IT Resources

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

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Google Earth Pro
- Microsoft Excel
- Microsoft Power Point
- Microsoft Word
- R

## 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

**Daniel Cozzolino** Unit Coordinator

[d.cozzolino@cqu.edu.au](mailto:d.cozzolino@cqu.edu.au)

## Schedule

### Week 1 - 05 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to the Unit, the systems theory and whole farm plan.		

### Week 2 - 12 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Topics in crop and plant physiology relevant to production.		

### Week 3 - 19 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Topics in crop and plant nutrition, crop fertilization, soil and plant interactions.		PART A (20%). Due date Week 3 (Friday, 23/3/2018). Task: QUIZ

### Week 4 - 26 Mar 2018

Module/Topic	Chapter	Events and Submissions/Topic
Topics in crop biosecurity (diseases, pest and weeds) relevant to crop production.		

### Week 5 - 02 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
The whole enterprise, crop management and budgeting (budgets, resources and planning).		

### Vacation week - 09 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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### Week 6 - 16 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Crop management and the whole enterprise.		<b>Crop Production Plan</b> Due: Week 6 Friday (20 Apr 2018) 8:00 pm AEST

### Week 7 - 23 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
Forecasting uncertain futures (climate change, sustainability, weather).		

### Week 8 - 30 Apr 2018

Module/Topic	Chapter	Events and Submissions/Topic
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Commodities, products and markets of relevant crops.

#### Week 9 - 07 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Product quality, issues related with harvest and post-harvest, storage.		PART B (20%). Due date Week 9 (Friday, 11/5/2018). Task: QUIZ

#### Week 10 - 14 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Whole farm plan		

#### Week 11 - 21 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Whole farm plan		

#### Week 12 - 28 May 2018

Module/Topic	Chapter	Events and Submissions/Topic
Whole farm plan		

#### Review/Exam week - 04 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic
		<b>Natural Resources Management Plan</b> Due: Review/Exam Week Friday (8 June 2018) 8:00 pm AEST

#### Exam Week - 11 Jun 2018

Module/Topic	Chapter	Events and Submissions/Topic

## Assessment Tasks

### 1 Portfolio

#### Assessment Type

Portfolio

#### Task Description

Assessment Description

The portfolio is made up of a series of tasks related to the different activities of this Unit (e.g. lectures, field trips, pracs, tutorials).

Tasks include:

**PART A** (20%). Due date Week 3 (Friday, 23/3/2018). Task: **QUIZ**. Assessment of content delivered during lectures, field trips, pracs and tutorials from week 1 through to week 3 inclusive. Topics include Theory of Systems, Crop and Plant Physiology, Crop and Plant Nutrition, and Crop Fertilization.

**PART B** (20%). Due date Week 9 (Friday, 11/5/2018). Task: **QUIZ**. Assessment of content delivered during lectures, field trips, pracs and tutorials from week 5 through to week 8 inclusive. Topics include Natural Resources Management, Budgeting, Legislation, and Environment.

#### Assessment Due Date

PART A. Friday Week 3 (23/3/2018); Part B Friday Week 9 (11/5/2018).

#### Return Date to Students

Grades will be returned within 10 working days of submission.

#### Weighting

40%

#### Minimum mark or grade

50% of the marks.

## Assessment Criteria

### Referencing Style

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

### Submission

Online

### Learning Outcomes Assessed

- Determine management options and production targets for a cropping enterprise.
- Develop a whole of farm cropping management and risk mitigation plan.

### Graduate Attributes

- Communication
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

## 2 Crop Production Plan

### Assessment Type

Written Assessment

### Task Description

Weighting: 40%

Assessment Description: Written report. You will prepare a Crop Production Plan for a property in your region including information related with:

- crop production plan aims / targets or goals (e.g. grain production, forage production),
- brief description of soil characteristics and types relevant to the crop selected (e.g. pH, organic matter content, nitrogen, phosphorus),
- information about the location (e.g. if is available a map indicating area, access to roads, etc),
- climate characteristics of the farm/region in order to select the appropriate crop or variety (e.g. rainfall, temperature),
- crop type and variety, including plant density (e.g. kg of seeds/ha, etc.), line spacing,
- fertilization requirements, type of fertilizer and rates in order to achieve commercial yields (e.g. kg of urea / ha),
- brief description of some key potential diseases, pests and weeds relevant to the crop selected.

The Crop Production Plan will be in the format of a report (1500-2000 words) and includes an introduction, aims, main body addressing point listed above, conclusions and references.

### Assessment Due Date

Week 6 Friday (20 Apr 2018) 8:00 pm AEST

### Return Date to Students

Grades will be returned within 10 working days of submission

### Weighting

40%

### Minimum mark or grade

50% of the marks.

### Assessment Criteria

The marking rubric and exemplar will be provided in week 1 and posted in the Unit Moodle site.

Marks are awarded for:

1. Introduction
2. The quality of the background review
3. The discussion of this information in context of the task
4. The clarity of English expression, spelling, and grammar
5. Accuracy of referencing and style,
6. Use of figures and tables, appropriate length.

### Referencing Style

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

**Submission**

Online

**Learning Outcomes Assessed**

- Determine management options and production targets for a cropping enterprise.
- Select, test and implement appropriate crop innovations into farm activities.
- Critique the environmental and legal requirements of crop management systems.

**Graduate Attributes**

- Communication
- Problem Solving
- Information Literacy
- Team Work

### 3 Natural Resources Management Plan

**Assessment Type**

Practical and Written Assessment

**Task Description**

Weighting 20%

Assessment: Natural Resources Management Plan

This assessment will consist of a written Natural Resources Management Plan and includes information related with:

- business objectives and goals
- A comprehensive SWOT analysis
- Audit of natural resources (including flora and fauna) and infrastructure
- A plan for reviewing and assessing the success of the natural resources management plan

The information provided in the plan must be supported by the use of references. The Natural Resources Management Plan will be in the format of report (1200-1500 words) and include an introduction, aims, main body of the plan, conclusions and references.

**Assessment Due Date**

Review/Exam Week Friday (8 June 2018) 8:00 pm AEST

**Return Date to Students**

Grades will be returned within 10 working days of submission

**Weighting**

20%

**Minimum mark or grade**

50% of the marks.

**Assessment Criteria**

Marks are awarded for:

1. Introduction and addressing the topic
2. The quality of the background review
3. The discussion of this information in context of the task
4. The clarity of English expression, spelling, and grammar,
5. Accuracy of referencing and style,
6. Use of figures and tables, appropriate length.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Select, test and implement appropriate crop innovations into farm activities.
- Develop a whole of farm cropping management and risk mitigation plan.

**Graduate Attributes**

- Communication
- Problem Solving



- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence

## 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