



AGRI12005 Sustainable Livestock Production

Term 1 - 2020

Profile information current as at 11/04/2024 12:25 pm

All details in this unit profile for AGRI12005 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.

Corrections

Unit Profile Correction added on 30-03-20

Assessment 2 has now been changed to an alternate form of assessment. Please see your Moodle site for details of the assessment.

General Information

Overview

You will be introduced to emerging trends and practices in sustainable management and improvement of the major livestock industries in Australia. You will explore the major livestock industries, production cycles, roles of genetics, environment, nutrition, reproductive efficiency and health in sustainable management practices and profitability, new and emerging industries and issues affecting industry development.

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

Prerequisite AGRI11003 Livestock Production Management

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 - 2020

- 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

1. **Presentation**

Weighting: 20%

2. **Written Assessment**

Weighting: 20%

3. **Written Assessment**

Weighting: 60%

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 Your Say

Feedback

All students found field trips and practicals were invaluable to learning.

Recommendation

Continue to ensure students are exposed to a wide range of livestock production systems including emerging animal industries through field trips and practical sessions. Maintain industry connections to ensure these sites can be used annually.

Feedback from Have Your Say

Feedback

Interactive tutorials using real and commercial programs made it easy to learn and keep engaged with the content.

Recommendation

Keep these tutorials in the unit, and ensure there is a good balance between lectures and tutorials. Where possible, get a guest lecturer in from the company to go through the program, and to keep tutorial sessions engaging, practical and industry relevant.

Feedback from Have Your Say

Feedback

All students indicated that overall they enjoyed the unit.

Recommendation

It is encouraging to hear that students found the content, field trips and assessments beneficial to their learning and as a part of the Bachelor of Agriculture degree. This feedback should be considered as part of the Rejuvenation of the Agriculture degree.

Unit Learning Outcomes

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

1. Analyse livestock production systems and identify strategies for improvement.
2. Review global emerging trends in sustainable livestock production.
3. Develop and evaluate an innovation implementation strategy.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Presentation - 20%		•	
2 - Written Assessment - 20%	•		

Assessment Tasks	Learning Outcomes		
	1	2	3
3 - Written Assessment - 60%			•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
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 - Presentation - 20%	•			•	•	•				
2 - Written Assessment - 20%	•	•	•	•						
3 - Written Assessment - 60%	•	•	•	•		•				

Textbooks and Resources

Textbooks

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Supplementary

Beef Agskills

Edition: Catalogue number: B105 (2005)

Authors: NSW Department of Primary Industries

NSW Department of Primary Industries

Online: <https://www.tocal.nsw.edu.au/publications/agskills> , NSW , Australia

ISBN: 9780731305872

Binding: Paperback

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Supplementary

Beef Cattle Production and Trade

(2014)

Authors: David Cottle, Lewis Kahn

CSIRO Publishing

Collingwood , VIC , Australia

ISBN: 9780643109889

Binding: Hardcover

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Supplementary

Dairy Agskills

Edition: Catalogue number: B106 (2008)

Authors: NSW Department of Primary Industries

NSW Department of Primary Industries

Online: <https://www.tocal.nsw.edu.au/publications/agskills> , NSW , Australia

ISBN: 9780731306091

Binding: Paperback

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Supplementary

Pig Agskills

Edition: Catalogue number: B737 (2010)

Authors: NSW Department of Primary Industries

NSW Department of Primary Industries

Online: <https://www.tocal.nsw.edu.au/publications/agskills> , NSW , Australia

ISBN: 9780731306312

Binding: Paperback

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Supplementary

Poultry Agskills

Edition: Catalogue number: B704 (2008)

Authors: NSW Department of Primary Industries

NSW Department of Primary Industries

Online: <https://www.tocal.nsw.edu.au/publications/agskills> , NSW , Australia

ISBN: 9780731306069

Binding: Paperback

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Supplementary

Sheep Agskills

Edition: Catalogue number: B111 (2016)

Authors: NSW Department of Primary Industries

NSW Department of Primary Industries

Online: <https://www.tocal.nsw.edu.au/publications/agskills> , NSW , Australia

ISBN: 9781742568836

Binding: Paperback

Additional Textbook Information

All of the supplementary textbooks are optional resources that you may find useful when learning about livestock production. The information in these supplementary textbooks will be covered in lectures, with additional resources and suggested readings available on Moodle. The prescribed text is available (if you haven't previously purchased it) from the CQUni Bookshop.

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Google Earth Pro
- Microsoft Office
- Microsoft Excel
- Microsoft Powerpoint
- Microsoft Word
- Zoom

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Jaime Manning Unit Coordinator

j.k.manning@cqu.edu.au

Schedule

Week 1 - Introduction and global livestock production - 09 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Unit overview, assessment requirements and livestock production overview		

Week 2 - Extensive livestock production A - 16 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Extensive livestock production: sheep production (wool and meat)		

Week 3 - Extensive livestock production B - 23 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Extensive livestock production: beef cattle production		

Week 4 - Intensive livestock production - 30 Mar 2020

Module/Topic	Chapter	Events and Submissions/Topic
Intensive livestock production: poultry (broiler and layer) and pig production		

Week 5 - Global livestock trends presentation - 06 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
		Assessment 1 (Global Livestock Trends Presentation) presented in class
Global livestock trends presentation		Global Livestock Trends Presentation Due: Week 5 Monday (6 Apr 2020) 5:00 pm AEST

Vacation Week - 13 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - Grazing and pasture management - 20 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Grazing and pasture management, soil, pasture and livestock interactions		

Week 7 - Innovations - 27 Apr 2020

Module/Topic	Chapter	Events and Submissions/Topic
Innovations and emerging technologies		

Week 8 - Emerging animal industries - 04 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Emerging animal industries		Part A - Annotated Bibliography (10%) Implementation and use of Precision Livestock Management (PLM) Technology Report Due: Week 8 Friday (8 May. 2020) 5:00 pm AEST

Week 9 - Livestock production field trip - 11 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
No formal lectures this week. Instead, there is a compulsory all day field trip		Field trip (instead of lectures)

Week 10 - Genetics - 18 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
The influence of genetics		Field Trip Report Due: Week 10 Friday (22 May 2020) 5:00 pm AEST

Week 11 - Feeding management - 25 May 2020

Module/Topic	Chapter	Events and Submissions/Topic
Feeding management and budgeting with a dairy focus		

Week 12 - Indigenous pastoralism and livestock production in developing countries - 01 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
Indigenous pastoralism, livestock production in developing countries		

Review/Exam Week - 08 Jun 2020

Module/Topic	Chapter	Events and Submissions/Topic
		Part B - Written Assessment (50%) Implementation and use of Precision Livestock Management (PLM) Technology Report Due: Review/Exam Week Tuesday (9 June 2020) 5:00 pm AEST

Term Specific Information

In the vacation week you are encouraged to attend the Northern Beef Industry conference and workshop in Rockhampton (15-18 April 2020)

Assessment Tasks

1 Global Livestock Trends Presentation

Assessment Type

Presentation

Task Description

Discuss global trends in a chosen livestock production industry, presented in class in the form of a powerpoint presentation.

Prepare and deliver a 15 minute presentation on the topic of "Global trends in livestock production" in class. You will be assigned a partner, choose a livestock production system and discuss the following aspects:

- Introduce your chosen livestock production system
- Review what is happening globally
- Discuss a minimum of two global trends, including outlining past, present and future directions, and whether these trends are positive/negative in the context of livestock production

You will be required to answer at least one question after your presentation.

There are **two parts** to this assessment: presentation (15%) and peer evaluation (5%).

Further details, peer evaluation and the marking rubric will be available on Moodle.

Assessment Due Date

Week 5 Monday (6 Apr 2020) 5:00 pm AEST

DUE Week 5 and presented in class

Return Date to Students

Week 6 Monday (20 Apr 2020)

Grades will be returned within 10 working days after students have presented this assessment.

Weighting

20%

Minimum mark or grade

50%. A pass is required to pass the unit.

Assessment Criteria

You will be assessed on:

- Clear introduction
- The use of statistical and other information relevant to Australian and Global livestock production
- Discussion of the information in the context of sustainable livestock production
- Adherence to the time frame
- Overall presentation and use of slides
- References
- Peer evaluation

Further details and a marking rubric will be available on the Moodle page.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online Group

Submission Instructions

Submit a copy of your presentation through Moodle in ppt or pdf format. You and your partner will be required to present your presentation together in class on Week 5.

Learning Outcomes Assessed

- Review global emerging trends in sustainable livestock production.

Graduate Attributes

- Communication
- Information Literacy
- Team Work
- Information Technology Competence

2 Field Trip Report

Assessment Type

Written Assessment

Task Description

You will be required to attend a compulsory field trip in Week 9 and complete a report (max. 1500 words) that addresses the following aspects:

- Provide a summary (enterprise, species, environment, feeding etc.) of all properties attended during the Week 9 field trip
- Highlight 3 challenges for each property
- For each of the 3 challenges identify 2 strategies for improvement
- Discuss the pros and cons of each of these strategies

Specific details of the Week 9 field trip, a copy of the field trip report and the marking rubric will be available on Moodle.

Assessment Due Date

Week 10 Friday (22 May 2020) 5:00 pm AEST

DUE Week 10, Friday 22 May 5:00 PM AEST

Return Date to Students

Week 12 Monday (1 June 2020)

Grades will be returned within 10 working days after the due date.

Weighting

20%

Minimum mark or grade

50%. A pass is required to pass the unit.

Assessment Criteria

Your field trip report will be marked according to the following content:

- Summary of the enterprises visited
- Discussion of challenges these enterprises face
- Identification of strategies for improvement, including the pros and cons
- Attendance and participation in the field trip
- Addressing all aspects of the task
- Writing quality and structure

Specific details of the field trip properties, a copy of the field trip report and a marking rubric will be available on Moodle.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Submission through Moodle in .doc, .docx or pdf format.

Learning Outcomes Assessed

- Analyse livestock production systems and identify strategies for improvement.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

3 Implementation and use of Precision Livestock Management (PLM) Technology Report

Assessment Type

Written Assessment

Task Description

Develop a plan for implementation and subsequent use of a Precision Livestock Management (PLM) technology.

This assessment has two parts:

PART A: Annotated Bibliography (10%) - due Week 8

Part A is to assist you in researching appropriate literature and preparing for your written assessment (Part B). You must select your PLM topic and find five (5) relevant and peer reviewed journal papers. Your annotated bibliography should be structured as follows:

- Reference using Harvard (author-date)
- A 300-500 word paragraph for your reference, including a summary, key findings and relevance to your topic

This structure should be repeated for all five (5) peer reviewed journal papers.

PART B: Written Assessment (50%) - due Review week

This assessment will be in the format of an essay (max. 3000 words) and must be supported by the use of references, including those used in Part A (annotated bibliography). Your plan should include the following aspects:

- Selection and overview of one PLM technology
- Develop a strategy for implementation and use of the technology in a livestock enterprise
- Outline the impact of the technology on either the producer, enterprise or how it monitors an important aspect of the animal
- Analyse the risks and challenges to implementation

The marking rubric and a list of appropriate PLM technologies to consider will be available on Moodle.

Assessment Due Date

Review/Exam Week Tuesday (9 June 2020) 5:00 pm AEST

PART A DUE Week 8, Friday 8 May 5:00 PM AEST; PART BDUE Week 13/Review week, Tuesday 9 June 5:00 PM AEST

Return Date to Students

Exam Week Friday (19 June 2020)

Grades will be returned within 10 working days after submission.

Weighting

60%

Minimum mark or grade

50% A pass is required to pass the unit.

Assessment Criteria

PART A will be marked according to the following:

- Relevance of papers
- Correct number of papers included
- Summary provided
- Summary includes key findings and relevance to topic

PART B will be marked according to the following:

- Content, including:
 - Introduction and conclusions
 - Critical thinking
 - Innovation and relevant strategies for implementing a PLM technology
 - Addressing all aspects of the task
- Use of references
- Writing quality and structure
- Presentation

Further information and a marking rubric will be available on Moodle.

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

Submission through Moodle in .doc or .docx format.

Learning Outcomes Assessed

- Develop and evaluate an innovation implementation strategy.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- 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