

Profile information current as at 03/05/2024 08:34 am

All details in this unit profile for GEOG12020 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

The saying; "climate is what you expect, weather is what you get", sums up why you will study atmospheric processes from two time perspectives in this unit. You will examine how the atmosphere, the oceans and the land exchange radiation, heat and water to create the physical structure and circulation characteristics of the troposphere. You will explore the forces that create the life-cycle of weather features with particular attention to Australian examples. Your study will examine how these features are depicted in weather maps. The importance of time and spatial scales with respect to weather systems will be emphasised. In recent years, atmospheric research has unmasked a range of longer term climate features that have a profound influence on Australian weather. You will learn how the fluctuations of these climate structures affect our region. You will gain introductory experience in using weather data from instruments, radar, satellites and weather models. This will lead to an examination of climate data – where to find it and how to use it. You will examine case studies of Aboriginal and Torres Strait Islander peoples' weather knowledge.

Details

Career Level: Undergraduate Unit Level: Level 2 Credit Points: 6 Student Contribution Band: 8 Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

18 Units of Credit

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 <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2019

• Online

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

Written Assessment
Weighting: 10%
Written Assessment
Weighting: 20%
Project (applied)
Weighting: 50%
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 <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 <u>CQUniversity Policy site</u>.

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 <u>CQUniversity Policy site</u>.

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.

Feedback

Student feedback indicates that the weather observation report assessment does not allow time to conduct the project adequately.

Recommendation

The weather report assessment timeframe will be adjusted.

Feedback from Student feedback.

Feedback

Student feedback indicates that there is a lot of weekly content - but the week looking at 'climate indices' needs further lecture explanation.

Recommendation

The weekly learning activities for GEOG12020 will be reviewed and streamlined.

Unit Learning Outcomes

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

- 1. Explain the role of energy balance and physical forcing in atmospheric structure, circulation and air-mass characteristics
- 2. Apply synoptic, regional and local scale weather system concepts and data to Australian environment case studies
- 3. Analyse climate concepts that affect Australian weather and environment
- 4. Recognise and value Aboriginal and Torres Strait Islander people's weather knowledge.

N/A

Alignment of Learning Outcomes, Assessment and Graduate Attributes

	N/A Level	•	Introductory Level	•	Intermediate Level	•	Graduate Level	0	Professional Level	o	Advanced Level	
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Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4		
1 - Written Assessment - 10%	•					
2 - Written Assessment - 20%		•				
3 - Written Assessment - 20%			•	•		
4 - Project (applied) - 50%	•	•	•			

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learnii	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 - 10%			•	•							
2 - Written Assessment - 20%		•	•	•							
3 - Written Assessment - 20%		•	•	•			•	•			
4 - Project (applied) - 50%	•		•	•		•					

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)

Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

Teaching Contacts

Michael Hewson Unit Coordinator m.hewson@cqu.edu.au

Schedule

Week 1 - 11 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
The Atmosphere.	All weekly learning activity resources are available on the unit Moodle website.	
Week 2 - 18 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Radiation, Energy and Global Circulation.		
Week 3 - 25 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Atmospheric Forces and Air-masses.		
Week 4 - 01 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Australian Weather - Synoptic Scale.		Portfolio #1 Due: Week 4 Friday (5 Apr 2019) 5:00 pm AEST
Week 5 - 08 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Australian Weather - Mesoscale.		
Vacation Week - 15 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
A break		
Week 6 - 22 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Australian Weather - Local Scale.		
Week 7 - 29 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Marthan Data and Martala Data 1		This week you collect the weather data for the weather report assessment.
Weather Data and Models Part 1		Portfolio #2 Due: Week 7 Friday (3 May 2019) 5:00 pm AEST
Week 8 - 06 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Weather Data and Models Part 2		

Week 9 - 13 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Australian Climate.		
Week 10 - 20 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Climate Change – The Evidence Basis.		Weather Observation Report Due: Week 10 Friday (24 May 2019) 5:00 pm AEST
Week 11 - 27 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Australian Indigenous Weather Knowledge.		
Week 12 - 03 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Emerging Weather and Climate Issues.		Portfolio #3 Due: Week 12 Friday (7 June 2019) 5:00 pm AEST
Review/Exam Week - 10 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 17 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Portfolio #1

Assessment Type Written Assessment

Task Description

Portfolio #1 is made up of several short answer questions on the learning material for weeks 1 to 3. Detailed assessment instructions are provided in the GEOG12020 Moodle site.

Assessment Due Date

Week 4 Friday (5 Apr 2019) 5:00 pm AEST

Return Date to Students

Week 6 Wednesday (24 Apr 2019)

Weighting 10%

Assessment Criteria

Detailed marking criteria are provided in the GEOG12020 Moodle site – the synopsis of which is: o Completeness of the answer with respect to the learning material; o Within word limits; and o Sentence construction, argument structure and readability of the short answer.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

The student will submit an assessment item via the GEOG12020 Moodle site TurnltIn function.

Learning Outcomes Assessed

• Explain the role of energy balance and physical forcing in atmospheric structure, circulation and air-mass characteristics

Graduate Attributes

- Critical Thinking
- Information Literacy

2 Portfolio #2

Assessment Type

Written Assessment

Task Description

Portfolio #2 is made up of several short answer questions on the learning material for weeks 4 to 6. Detailed assessment instructions are provided in the GEOG12020 Moodle site.

Assessment Due Date

Week 7 Friday (3 May 2019) 5:00 pm AEST

Return Date to Students

Week 8 Wednesday (8 May 2019)

Weighting

20%

Assessment Criteria

Detailed marking criteria are provided in the GEOG12020 Moodle site – the synopsis of which is: o Completeness of the answer with respect to the learning material; o Within word limits; and o Sontance construction, argument structure and readability of the short answer

o Sentence construction, argument structure and readability of the short answer.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

The student will submit an assessment item via the GEOG12020 Moodle site TurnltIn function.

Learning Outcomes Assessed

• Apply synoptic, regional and local scale weather system concepts and data to Australian environment case studies

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy

3 Weather Observation Report

Assessment Type

Project (applied)

Task Description

The weather assessment reports student weather observations for a five day period (week 7 of term): o Collecting daily local weather data for five days;

o Discussing local weather association with the changing synoptic/regional/local scale weather pattern; and o Presenting the tabulated/graphed data into a report of no more than 2500 words.

The report will explain the connections between synoptic weather features and local scale weather measurements informed by the unit learning material.

The weather data collection and observation will be at the student's location and near a Bureau of Meteorology weather data collection site.

Assessment Due Date

Week 10 Friday (24 May 2019) 5:00 pm AEST

Return Date to Students

Week 12 Friday (7 June 2019)

Weighting

50%

Assessment Criteria

Detailed marking criteria are provided in the GEOG12020 Moodle site - synopsis of which is:

o The report is well structured, cites references correctly and engages readers.

o The report presents daily local scale weather data and observation analysis for the observation period.

o The report presents daily synoptic/regional/local scale weather data analysis for the observation period.

o The report describes the connecting links between synoptic and local scale weather data illustrating an understanding of the daily weather process at various scales.

o The report includes scholarly source material as defined in the task description.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

The student will submit an assessment item via the GEOG12020 Moodle site TurnltIn function.

Learning Outcomes Assessed

- Explain the role of energy balance and physical forcing in atmospheric structure, circulation and air-mass characteristics
- Apply synoptic, regional and local scale weather system concepts and data to Australian environment case studies
- Analyse climate concepts that affect Australian weather and environment

Graduate Attributes

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

4 Portfolio #3

Assessment Type

Written Assessment

Task Description

Portfolio #3 is made up of several short answer questions on the learning material for weeks 7 to 12. Detailed assessment instructions are provided in the GEOG12020 Moodle site.

Assessment Due Date

Week 12 Friday (7 June 2019) 5:00 pm AEST

Return Date to Students

Review/Exam Week Wednesday (12 June 2019)

Weighting

20%

Assessment Criteria

Detailed marking criteria are provided in the GEOG12020 Moodle site – the synopsis of which is: o Completeness of the answer with respect to the learning material;

o Within word limits; and

o Sentence construction, argument structure and readability of the short answer.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

The student will submit an assessment item via the GEOG12020 Moodle site TurnItIn function.

Learning Outcomes Assessed

- Analyse climate concepts that affect Australian weather and environment
- Recognise and value Aboriginal and Torres Strait Islander people's weather knowledge.

Graduate Attributes

- Problem Solving
- Critical Thinking

- Information Literacy
- 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