

Profile information current as at 19/05/2024 04:42 am

All details in this unit profile for GEOG12022 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

Geographic Information Systems (GIS) power Earth and human interaction decisions far beyond what we see in internet maps and vehicle navigation devices. Because GIS is a business tool in many organisations, you will be exposed to and acquire practical skills in making electronic maps and analysing geographical data. You will explore mapping concepts, spatial analysis processes and mapping communication standards that are as important today as they were for Gerardus Mercator in the 16th century.

#### **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

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 <a href="Assessment Policy and Procedure (Higher Education Coursework)">Assessment Policy and Procedure (Higher Education Coursework)</a>.

## Offerings For Term 1 - 2024

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**

1. Practical Assessment

Weighting: 20%

2. Practical Assessment

Weighting: 40%

3. Practical Assessment

Weighting: 40%

## 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.

# **Unit Learning Outcomes**

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

- 1. Replicate a range of mapping operations using GIS data sets.
- 2. Solve introductory spatial analysis problems using GIS data management and manipulation functions.
- 3. Reproduce GIS-based maps that meet cartographic theory, standards and practice.

Nil

# Alignment of Learning Outcomes, Assessment and Graduate Attributes Introductory Intermediate Graduate Professional Advanced Level Level Level Level Level Level Alignment of Assessment Tasks to Learning Outcomes **Learning Outcomes Assessment Tasks** 1 2 3 1 - Practical Assessment - 20% 2 - Practical Assessment - 40% 3 - Practical Assessment - 40% Alignment of Graduate Attributes to Learning Outcomes **Graduate Attributes Learning Outcomes** 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

## 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)
- A personal computer with Microsoft Windows ArcGIS does not run on Apple computers. Contact the unit lead if this constitutes a difficulty
- ArcGIS-Pro the unit coordinator will advise students how to access the CQU licensed ArcGIS-Pro

# 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**

Richard Koech Unit Coordinator

r.koech@cqu.edu.au

## Schedule

Week 1 - 04 Mar 2024		
Module/Topic	Chapter	Events and Submissions/Topic
GIS: the why of where	Selected maps, websites, videos and readings will be made available for each of the following weeks. There is NO prescribed textbook.	
Week 2 - 11 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
ArcGIS Pro: the employers' choice		
Week 3 - 18 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Maps and spatial relationships		
Week 4 - 25 Mar 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Creating and editing features		
Week 5 - 01 Apr 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Creating and editing imagery		Mapping Practical #1 Due: Week 5 Monday (1 Apr 2024) 9:00 am AEST
Vacation Week - 08 Apr 2024		
Module/Topic	Chapter	Events and Submissions/Topic

Vacation Week		
Week 6 - 15 Apr 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Geoprocessing tools		
Week 7 - 22 Apr 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Spatial modeling		
Week 8 - 29 Apr 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Making maps that tell stories		
Week 9 - 06 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Analysing spatial and temporal patterns		
Week 10 - 13 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Solving geographical questions		Mapping Practical #2 Due: Week 10 Monday (13 May 2024) 9:00 am AEST
Week 11 - 20 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Project week 1		
Week 12 - 27 May 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Project week 2		
Review/Exam Week - 03 Jun 2024		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
		Mapping Practical #3 Due: Review/Exam Week Monday (3 June 2024) 9:00 am AEST
Exam Week - 10 Jun 2024		
Module/Topic	Chapter	Events and Submissions/Topic

## **Assessment Tasks**

# 1 Mapping Practical #1

#### **Assessment Type**

**Practical Assessment** 

#### **Task Description**

The Moodle site of each week contains specific questions to answer and the particular map output to provide. Submit Mapping Practical #1 in the Moodle Turnitin function when you have inserted the exercise answers/maps for all three weeks: 1, 2 and 3. Instructions on how to 'export' a suitable map image for insertion into the Mapping Practical document are provided in Week 2.

Submit Practical #1 on or before the due date, as one Microsoft Word file adding the maps and answering the questions as specified in the exercises of weeks 1, 2 and 3. In the document, identify the week and question number: i.e. a heading Week 1 Exercise 1 (etc.) is suitable.

#### **Assessment Due Date**

Week 5 Monday (1 Apr 2024) 9:00 am AEST

#### **Return Date to Students**

Week 6 Monday (15 Apr 2024)

#### Weighting

20%

#### Minimum mark or grade

50%

#### **Assessment Criteria**

Mapping Practical #1 marking criteria:

- The degree of completeness and insightfulness of any written answer.
- Written answers conform generally to the word limit guidance.
- Paragraph/sentence/argument construction and readability of short answers.
- The degree a map demonstrates mastery of the unit learning material.
- The degree to which a map is readable and 'tells a story' ensure the maps are sized so that the details can be read, particularly the details important to the story of the map. Select the appropriate 'zoom' level.
- The degree to which appropriate, balanced cartographic elements have been used in the map production (depending on, and appropriate to, the tuition of the week later maps will require extensive marginalia and cartographic elements details noted in the exercise specifications per week).

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

#### **Learning Outcomes Assessed**

• Replicate a range of mapping operations using GIS data sets.

## 2 Mapping Practical #2

## **Assessment Type**

**Practical Assessment** 

#### **Task Description**

The Moodle site of each week contains specific questions to answer and the particular map output to provide. Submit Mapping Practical #2 in the Moodle Turnitin function when you have inserted the exercise answers/maps for all five weeks: 4 to 8. Instructions on how to 'export' a suitable map image for insertion into the Mapping Practical document are provided in Week 2.

Submit Practical #2 on or before the due date, as one Microsoft Word file adding the maps and answering the questions as specified in the exercises of weeks 4, 5, 6, 7, and 8. In the document, identify the week and question number: i.e. a heading Week 4 Exercise 1 (etc.) is suitable.

#### **Assessment Due Date**

Week 10 Monday (13 May 2024) 9:00 am AEST

#### **Return Date to Students**

Week 12 Monday (27 May 2024)

#### Weighting

40%

## Minimum mark or grade

50%

#### **Assessment Criteria**

Mapping Practical #2 marking criteria:

- The degree of completeness and insightfulness of any written answer.
- Written answers conform generally to the word limit guidance.
- Paragraph/sentence/argument construction and readability of short answers.
- The degree a map demonstrates mastery of the unit learning material.
- The degree to which a map is readable and 'tells a story' ensure the maps are sized so that the details can be read, particularly the details important to the story of the map. Select the appropriate 'zoom' level.

• The degree to which appropriate, balanced cartographic elements have been used in the map production (depending on, and appropriate to, the tuition of the week – later maps will require extensive marginalia and cartographic elements – details noted in the exercise specifications per week).

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

#### **Learning Outcomes Assessed**

- Replicate a range of mapping operations using GIS data sets.
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

## 3 Mapping Practical #3

### **Assessment Type**

**Practical Assessment** 

#### **Task Description**

Submit Practical #3 on or before the due date, as one Microsoft Word file adding the maps and answering the questions as specified in the exercises of weeks 9 and 10 and the major mapping project (specified in week 10). The Moodle site of each week contains the specific questions to answer and the particular map output to provide (note: instructions in week 2 advise how to 'export' a suitable map image for insertion into the Mapping Practical document). Submit Mapping Practical #3 in the Moodle Turnitin function when you have inserted the exercise answers/maps for weeks: 9, 10 and the mapping project. Note that week 11 and week 12 are set aside for working on the mapping project. In the document identify the week and question number: i.e. a heading Week 9 Exercise 1 (etc.) is suitable.

#### **Assessment Due Date**

Review/Exam Week Monday (3 June 2024) 9:00 am AEST

#### **Return Date to Students**

Exam Week Friday (14 June 2024) Feedback via Moodle 'grades'.

#### Weighting

40%

#### Minimum mark or grade

50%

#### **Assessment Criteria**

Mapping Practical #3 marking criteria:

- The degree of completeness and insightfulness of any written answer.
- Written answers conform generally to the word limit guidance.
- Paragraph/sentence/argument construction and readability of short answers.
- The degree a map demonstrates mastery of the unit learning material.
- The degree to which a map is readable and 'tells a story' ensure the maps are sized so that the details can be read, particularly the details important to the story of the map. Select the appropriate 'zoom' level.
- The degree to which appropriate, balanced cartographic elements have been used in the map production (depending on, and appropriate to, the tuition of the week later maps will require extensive marginalia and cartographic elements details noted in the exercise specifications per week).

#### **Referencing Style**

• Harvard (author-date)

#### **Submission**

Online

#### **Learning Outcomes Assessed**

Reproduce GIS-based maps that meet cartographic theory, standards and 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