



# GEOG19021 Geographic Information Systems

## Term 2 - 2017

Profile information current as at 30/04/2024 01:18 pm

All details in this unit profile for GEOG19021 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 decision making for a massive raft of earth and human system interactions in research, government and industry – far beyond the cartographic public face that is Google maps. You will gain introductory practical skill in making electronic maps and analysing geographical data. You will explore key mapping concepts that underpin GIS, as well as practice some of the key map 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

Prerequisite: Minimum of 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 [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

### Offerings For Term 2 - 2017

- Distance
- 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. **Practical Assessment**

Weighting: 10%

#### 2. **Practical Assessment**

Weighting: 15%

#### 3. **Practical Assessment**

Weighting: 20%

#### 4. **Practical Assessment**

Weighting: 25%

#### 5. **Practical Assessment**

Weighting: 30%

### 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 Student feedback.

##### Feedback

Assessment feedback turnaround to be improved.

##### Recommendation

Assessment tasks will be redesigned.

## Unit Learning Outcomes

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

1. Explain how earth measurement theory underpins the production of electronic maps;
2. Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
3. Reproduce GIS based maps that meet cartographic theory, standards and practice;
4. Solve introductory spatial analysis problems using GIS data management and manipulation functions.

Nil

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



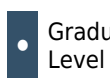
N/A  
Level



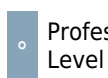
Introductory  
Level



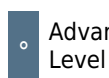
Intermediate  
Level



Graduate  
Level



Professional  
Level



Advanced  
Level

### Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks               | Learning Outcomes |   |   |   |
|--------------------------------|-------------------|---|---|---|
|                                | 1                 | 2 | 3 | 4 |
| 1 - Practical Assessment - 10% | •                 | • | • | • |
| 2 - Practical Assessment - 15% | •                 | • | • | • |
| 3 - Practical Assessment - 20% | •                 | • | • | • |
| 4 - Practical Assessment - 25% | •                 | • | • | • |
| 5 - Practical Assessment - 30% | •                 | • | • | • |

### Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes | Learning Outcomes |   |   |   |
|---------------------|-------------------|---|---|---|
|                     | 1                 | 2 | 3 | 4 |
| 1 - Communication   |                   |   |   |   |

| Graduate Attributes                                 | Learning Outcomes |   |   |   |
|---|-------------------|---|---|---|
|   | 1                 | 2 | 3 | 4 |
| 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 - Practical Assessment - 10% | •                   | • | • | • |   | • |   |   |   |    |
| 2 - Practical Assessment - 15% | •                   | • | • | • |   | • |   |   |   |    |
| 3 - Practical Assessment - 20% | •                   | • | • | • |   | • |   |   |   |    |
| 4 - Practical Assessment - 25% | •                   | • | • | • |   | • |   |   |   |    |
| 5 - Practical Assessment - 30% | •                   | • | • | • |   | • |   |   |   |    |

## Textbooks and Resources

### Textbooks

GEOG19021

#### Prescribed

##### Getting to Know ArcGIS

Edition: 4 (2016)

Authors: Michael Law, Amy Collins

ESRI Press

Redlands, California, The United States of America

ISBN: 978-1-58948-382-8

Binding: Paperback

#### Additional Textbook Information

The text book is essential - all learning and assessment activities are drawn from it. More importantly, the text book contains an authorized link to download ArcGIS system and practical exercise map data. It is very important you obtain the correct version - it needs to be "Getting to Know ArcGIS" Fourth Edition from ESRI Press.

The textbook derived ArcGIS and data license will last for 180 days - therefore students should not download the system/data until instructed to do so by the unit coordinator. The text book will allow just one download so download access cannot be shared between students. For the same reason students should not purchase a second hand version of the book as the license will not work.

ArcGIS is built for Microsoft Windows 7 (and up) based personal computers - it will run on Apple computers only with special emulation software (and with added difficulty).

Further the Windows based PC must meet specifications noted here :

<http://desktop.arcgis.com/en/arcmap/10.3/get-started/system-requirements/arcgis-desktop-system-requirements.htm>

Students experiencing difficulty with meeting these requirements should discuss the matter with the unit coordinator.

The option for students in Rockhampton is to use the 32/G.16 PC lab at the Rockhampton North campus.

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

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

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- A personal computer with Windows 7 or 10 to use the ArcGIS software. ArcGIS does not run on Apple hardware. Contact the unit co-ordinator if this constitutes a difficulty.

## Referencing Style

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Michael Hewson** Unit Coordinator

[m.hewson@cqu.edu.au](mailto:m.hewson@cqu.edu.au)

## Schedule

### Week 1 - 10 Jul 2017

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|--------------|---------|------------------------------|

Unit Introduction, Structure and Context

Selected maps, videos and readings will be made available supplementing the learning activities for each of the following weeks.

## Week 2 - 17 Jul 2017

| Module/Topic   | Chapter                             | Events and Submissions/Topic |
|--|-------------------------------------|------------------------------|
| Interacting with Digital Maps and Geographic Information Systems (GIS) | Chap 1 pp. 1-17<br>Chap 3 pp. 29-32 |                              |

## Week 3 - 24 Jul 2017

| Module/Topic                     | Chapter          | Events and Submissions/Topic |
|----------------------------------|------------------|------------------------------|
| Interacting with Geographic Data | Chap 4 pp. 79-81 |                              |

## Week 4 - 31 Jul 2017

| Module/Topic                                   | Chapter            | Events and Submissions/Topic |
|--|--------------------|------------------------------|
| Geographic Co-ordinate Systems and Projections | Chap 6 pp. 153-163 |                              |

## Week 5 - 07 Aug 2017

| Module/Topic  | Chapter   | Events and Submissions/Topic  |
|---|---|---|
| Mapping Features – Symbols, Labels and Classification | Chap 7 pp. 213-216<br>Chap 8 pp. 259-262<br>Chap 9 pg 299-301 | <b>Portfolio Part 1</b> Due: Week 5<br>Monday (7 Aug 2017) 9:00 am AEST |

## Vacation Week - 14 Aug 2017

| Module/Topic  | Chapter | Events and Submissions/Topic |
|---------------|---------|------------------------------|
| Vacation week |         |                              |

## Week 6 - 21 Aug 2017

| Module/Topic | Chapter             | Events and Submissions/Topic |
|--------------|---------------------|------------------------------|
| Cartography  | Chap 10 pp. 333-335 |                              |

## Week 7 - 28 Aug 2017

| Module/Topic                  | Chapter  | Events and Submissions/Topic   |
|-------------------------------|--|--|
| Creating and Editing Features | Chap 11 pg 389-392<br>Chap 12 pp. 411-413<br>Chap 13 pp. 435-436 | <b>Portfolio Part 2</b> Due: Week 7<br>Monday (28 Aug 2017) 9:00 am AEST |

## Week 8 - 04 Sep 2017

| Module/Topic   | Chapter                                    | Events and Submissions/Topic   |
|--|--|--|
| Geographical Answers – Querying and Selecting Features | Chap 15 pp. 499-500<br>Chap 16 pp. 539-540 | <b>Portfolio Part 3</b> Due: Week 8<br>Monday (4 Sept 2017) 9:00 am AEST |

## Week 9 - 11 Sep 2017

| Module/Topic                         | Chapter             | Events and Submissions/Topic |
|--------------------------------------|---------------------|------------------------------|
| Geographical Answers – Relating Data | Chap 17 pp. 557-562 |                              |

## Week 10 - 18 Sep 2017

| Module/Topic  | Chapter                                    | Events and Submissions/Topic   |
|---|--|--|
| Geographical Answers – Spatial Analysis - Vector Data | Chap 18 pp. 601-603<br>Chap 19 pp. 645-648 | <b>Portfolio Part 4</b> Due: Week 10<br>Monday (18 Sept 2017) 9:00 am AEST |

## Week 11 - 25 Sep 2017

| Module/Topic  | Chapter                 | Events and Submissions/Topic |
|---|-------------------------|------------------------------|
| Geographical Answers – Spatial Analysis - Raster Data | Read Chap 20 pg 689-692 |                              |

## Week 12 - 02 Oct 2017

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|              |         |                              |

**Review/Exam Week - 09 Oct 2017**

| Module/Topic                   | Chapter | Events and Submissions/Topic  |
|--------------------------------|---------|---|
| <b>Exam Week - 16 Oct 2017</b> |         |   |
| Module/Topic                   | Chapter | Events and Submissions/Topic  |
|                                |         | <b>Portfolio Part 5</b> Due: Exam Week<br>Monday (16 Oct 2017) 4:00 pm AEST |

## Term Specific Information

It is very important that the prescribed text book is purchased and received as soon as possible. The learning activities and the assessment of this unit relies entirely on the text book provided coded key that allows you to download a time limited, trial edition of ArcGIS as well as the essential exercise data to be used for unit assessment.

Note that a second hand text book should not be purchased - as the essential coded key will not be available to the later owner. Further, any text book edition other than edition 4 will not provide the student with the correct materials for the assessment of this unit. You will need Edition 4.

Students are required to have access to a personal computer using Microsoft Windows 7 or 10 as its operating system. ArcGIS will not run in an Apple environment (without some problematic intervening software). If this requirement constitutes a difficulty, you should contact the unit co-ordinator as soon as possible. It is important to note that ArcGIS is a sophisticated software system and requires a reasonably current PC on which to run.

## Assessment Tasks

### 1 Portfolio Part 1

#### Assessment Type

Practical Assessment

#### Task Description

The portfolio to be submitted by the due date/time has two components:

- (1) Short answer questions – some from the text book exercises, some as noted below.
- (2) GIS map output – being the result of undertaking the learning activities.

The material being assessed in Portfolio Part 1 comes from:

- (1) Chapters 3 and 4 of the prescribed text: ESRI Press “Getting to know ArcGIS” 4th Edition.
- (2) Weeks 2 and 3 of the unit tuition.

The portfolio will be submitted via Moodle according to the following guidance:

- A single \*.pdf file - the GEOG19021 Moodle site will only allow PDF file submission.
- If you use Microsoft Word to collate answers/maps – save as a PDF.
- Submit only the following answers/maps – they are a subset of the exercises you undertake each week – do not submit all the weekly learning activity.
- Use PDF landscape or portrait modes to suit the GIS maps you produce.

Further information on how Portfolio Part 1 is to be compiled is provided in the task description lodged in the GEOG19021 Moodle site.

#### Assessment Due Date

Week 5 Monday (7 Aug 2017) 9:00 am AEST

#### Return Date to Students

Week 6 Wednesday (23 Aug 2017)

#### Weighting

10%

#### Assessment Criteria

The assessment standards and marking criteria are:

### 1. Short answers:

- correct answer;
- completeness of discussion with respect to the learning material;
- within word limits; and
- sentence construction, argument structure and readability of the short answer.

### 2. GIS maps:

- completeness of the maps with respect to the learning material and the context of the instructions of the text book;
- compliance with cartographic standards (relevant to Portfolio Parts 3, 4 and 5); and
- scaled suitably to address the question and "tell the story" to the map readership.

Marks will be deducted at a rate of 1 mark within every 24 hours that the submission is later than the due or approved extension date/time. For example - an assessment submitted 16 hours after the due date/time will be penalised 1 mark - at 32 hours, 2 marks and so on.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

## Referencing Style

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

## Submission

Online

## Submission Instructions

All submissions will be via a link on the Moodle site

## Learning Outcomes Assessed

- Explain how earth measurement theory underpins the production of electronic maps;
- Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
- Reproduce GIS based maps that meet cartographic theory, standards and practice;
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

## Graduate Attributes

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

# 2 Portfolio Part 2

## Assessment Type

Practical Assessment

## Task Description

The portfolio to be submitted by the due date/time has two components:

(1) Short answer questions - some from the text book exercises, some as noted below.

(2) GIS map output - being the result of undertaking the learning activities.

The material being assessed in Portfolio Part 1 comes from:

(1) Chapters 6, 7, 8 and 9 of the prescribed text: ESRI Press "Getting to know ArcGIS" 4th Edition.

(2) Week 4 and 5 of the unit tuition.

The portfolio will be submitted via Moodle according to the following guidance:

- A single \*.pdf file - the GEOG19021 Moodle site will only allow PDF file submission.
- If you use Microsoft Word to collate answers/maps - save as a PDF.
- Submit only the following answers/maps - they are a subset of the exercises you undertake each week - do not submit all the weekly learning activity.
- Use PDF landscape or portrait modes to suit the GIS maps you produce.

Further information on how Portfolio Part 2 is to be compiled is provided in the task description lodged in the GEOG19021 Moodle site.

## Assessment Due Date

Week 7 Monday (28 Aug 2017) 9:00 am AEST

## Return Date to Students

Week 8 Wednesday (6 Sept 2017)

## Weighting

15%

## Assessment Criteria

The assessment standards and marking criteria are:

1. Short answers:



- correct answer;
- completeness of discussion with respect to the learning material;
- within word limits; and
- sentence construction, argument structure and readability of the short answer.

## 2. GIS maps:

- completeness of the maps with respect to the learning material and the context of the instructions of the text book;
- compliance with cartographic standards (relevant to Portfolio Parts 3, 4 and 5); and
- scaled suitably to address the question and "tell the story" to the map readership.

Marks will be deducted at a rate of 1 mark within every 24 hours that the submission is later than the due or approved extension date/time. For example - an assessment submitted 16 hours after the due date/time will be penalised 1 mark - at 32 hours, 2 marks and so on.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

## Referencing Style

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

## Submission

Online

## Submission Instructions

All submissions will be via a link on the Moodle site

## Learning Outcomes Assessed

- Explain how earth measurement theory underpins the production of electronic maps;
- Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
- Reproduce GIS based maps that meet cartographic theory, standards and practice;
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

## Graduate Attributes

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

# 3 Portfolio Part 3

## Assessment Type

Practical Assessment

## Task Description

The portfolio to be submitted by the due date/time has two components:

- (1) Short answer questions - some from the text book exercises, some as noted below.
- (2) GIS map output - being the result of undertaking the learning activities.

The material being assessed in Portfolio Part 3 comes from:

- (1) Chapter 10 of the prescribed text: ESRI Press "Getting to know ArcGIS" 4th Edition.
- (2) Week 6 of the unit tuition.

The portfolio will be submitted via Moodle according to the following guidance:

- A single \*.pdf file - the GEOG19021 Moodle site will only allow PDF file submission.
- If you use Microsoft Word to collate answers/maps - save as a PDF.
- Submit only the following answers/maps - they are a subset of the exercises you undertake each week - do not submit all the weekly learning activity.
- Use PDF landscape or portrait modes to suit the GIS maps you produce.

Further information on how Portfolio Part 3 is to be compiled is provided in the task description lodged in the GEOG19021 Moodle site.

## Assessment Due Date

Week 8 Monday (4 Sept 2017) 9:00 am AEST

## Return Date to Students

Week 9 Wednesday (13 Sept 2017)

## Weighting

20%

## Assessment Criteria

The assessment standards and marking criteria are:

1. Short answers:
  - correct answer;

- completeness of discussion with respect to the learning material;
- within word limits; and
- sentence construction, argument structure and readability of the short answer.

#### 2. GIS maps:

- completeness of the maps with respect to the learning material and the context of the instructions of the text book;
- compliance with cartographic standards (relevant to Portfolio Parts 3, 4 and 5); and
- scaled suitably to address the question and "tell the story" to the map readership.

Marks will be deducted at a rate of 1 mark within every 24 hours that the submission is later than the due or approved extension date/time. For example - an assessment submitted 16 hours after the due date/time will be penalised 1 mark - at 32 hours, 2 marks and so on.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

### Referencing Style

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

### Submission

Online

### Submission Instructions

All submissions will be via a link on the Moodle site

### Learning Outcomes Assessed

- Explain how earth measurement theory underpins the production of electronic maps;
- Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
- Reproduce GIS based maps that meet cartographic theory, standards and practice;
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

### Graduate Attributes

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

## 4 Portfolio Part 4

### Assessment Type

Practical Assessment

### Task Description

Task Description

The portfolio to be submitted by the due date/time has two components:

- (1) Short answer questions - some from the text book exercises, some as noted below.
- (2) GIS map output - being the result of undertaking the learning activities.

The material being assessed in Portfolio Part 4 comes from:

- (1) Chapters 11, 12, 13, 15 and 16 of the text: ESRI Press "Getting to know ArcGIS" 4th Edition.
- (2) Weeks 7 and 8 of the unit tuition.

The portfolio will be submitted via Moodle according to the following guidance:

- A single \*.pdf file - the GEOG19021 Moodle site will only allow PDF file submission.
- If you use Microsoft Word to collate answers/maps - save as a PDF.
- Submit only the following answers/maps - they are a subset of the exercises you undertake each week - do not submit all the weekly learning activity.
- Use PDF landscape or portrait modes to suit the GIS maps you produce.

Further information on how Portfolio Part 4 is to be compiled is provided in the task description lodged in the GEOG19021 Moodle site.

### Assessment Due Date

Week 10 Monday (18 Sept 2017) 9:00 am AEST

### Return Date to Students

Week 11 Wednesday (27 Sept 2017)

### Weighting

25%

### Assessment Criteria

The assessment standards and marking criteria are:

1. Short answers:
  - correct answer;

- completeness of discussion with respect to the learning material;
- within word limits; and
- sentence construction, argument structure and readability of the short answer.

## 2. GIS maps:

- completeness of the maps with respect to the learning material and the context of the instructions of the text book;
- compliance with cartographic standards (relevant to Portfolio Parts 3, 4 and 5); and
- scaled suitably to address the question and "tell the story" to the map readership.

Marks will be deducted at a rate of 1 mark within every 24 hours that the submission is later than the due or approved extension date/time. For example - an assessment submitted 16 hours after the due date/time will be penalised 1 mark - at 32 hours, 2 marks and so on.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

## Referencing Style

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

## Submission

Online

## Submission Instructions

All submissions will be via a link on the Moodle site

## Learning Outcomes Assessed

- Explain how earth measurement theory underpins the production of electronic maps;
- Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
- Reproduce GIS based maps that meet cartographic theory, standards and practice;
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

## Graduate Attributes

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

# 5 Portfolio Part 5

## Assessment Type

Practical Assessment

## Task Description

The portfolio to be submitted by the due date/time has two components:

- (1) Short answer questions - some from the text book exercises, some as noted below.
- (2) GIS map output - being the result of undertaking the learning activities.
- (3) a mapped compiled from Queensland Government GIS files and field work data.

The material being assessed in Portfolio Part 5 comes from:

- (1) Chapters 17, 18, 19 and 20 of the text: ESRI Press "Getting to know ArcGIS" 4th Edition.
- (2) Weeks 9, 10 and 11 of the unit tuition.

The portfolio will be submitted via Moodle according to the following guidance:

- A single \*.pdf file - the GEOG19021 Moodle site will only allow PDF file submission.
- If you use Microsoft Word to collate answers/maps - save as a PDF.
- Submit only the following answers/maps - they are a subset of the exercises you undertake each week - do not submit all the weekly learning activity.
- Use PDF landscape or portrait modes to suit the GIS maps you produce.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

## Assessment Due Date

Exam Week Monday (16 Oct 2017) 4:00 pm AEST

## Return Date to Students

Exam Week Friday (20 Oct 2017)

## Weighting

30%

## Assessment Criteria

The assessment standards and marking criteria are:

1. Short answers:
  - correct answer;

- completeness of discussion with respect to the learning material;
- within word limits; and
- sentence construction, argument structure and readability of the short answer.

## 2. GIS maps:

- completeness of the maps with respect to the learning material and the context of the instructions of the text book;
- compliance with cartographic standards (relevant to Portfolio Parts 3, 4 and 5); and
- scaled suitably to address the question and "tell the story" to the map readership.

Marks will be deducted at a rate of 1 mark within every 24 hours that the submission is later than the due or approved extension date/time. For example - an assessment submitted 16 hours after the due date/time will be penalised 1 mark - at 32 hours, 2 marks and so on.

Marks may be deducted if the maps are difficult to read - this includes poor choices for formatting legends, symbols/labels or map choropleths (colour design).

## Referencing Style

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

## Submission

Online

## Submission Instructions

All submissions will be via a link on the Moodle site

## Learning Outcomes Assessed

- Explain how earth measurement theory underpins the production of electronic maps;
- Replicate a range of GIS mapping operations using point, line, polygon and raster data samples;
- Reproduce GIS based maps that meet cartographic theory, standards and practice;
- Solve introductory spatial analysis problems using GIS data management and manipulation functions.

## 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