



Business and Economics

Unit Guide

ETC5512

Wild-caught data

Semester 1, 2020

We acknowledge and pay respects to the Traditional Owners and Elders - past, present and emerging - of the lands and waters on which Monash University operates.

Handbook link:

<http://monash.edu.au/pubs/2020handbooks/units/ETC5512.html>

The information contained in this unit guide is correct at time of publication. The University has the right to change any of the elements contained in this document at any time.

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Unit handbook information

Synopsis

Data can be obtained from many sources. It may be generated via experiments, collected from observational studies or surveys, obtained via sampling, or recorded using sensors. Each type of data has its own characteristics that affect the analysis tools we use. Very large data sets come with their own challenges and require some database skills. This unit will equip students with the tools to understand and use different sources of data. Open data sources will be emphasised.

Mode of delivery

Clayton (On-campus)

Workload requirements

Minimum total expected workload to achieve the learning outcomes for this unit is 144 hours per semester typically comprising a mixture of scheduled learning activities and independent study. Independent study may include associated readings, assessment and preparation for scheduled activities. The unit requires on average three/four hours of scheduled activities per week. Scheduled activities may include a combination of teacher directed learning, peer directed learning and online engagement.

Class Timetable

Follow this [link](#) to view the scheduled times for your unit's learning activities for this teaching period.

Unit relationships

Prerequisites

None

Prohibitions

None

Co-requisites

None

Enrolment rules

None

Chief Examiner

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Academic overview

Unit learning outcomes

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

1. understand the characteristics of various types of data sources including experiments, observational studies, surveys, sampling and sensors
2. utilise open data sources and access its various formats
3. manage large data files using a standard database language.

Teaching approach

Problem-based, and active learning.

Recording of lectures

This unit will have lectures recorded. These recordings will be available to current students. In the event that there is an equipment failure and the lecture is not recorded in part or in full, no alternative recording will be provided. The Chief Examiner may determine a part or parts of lecture unsuitable for recording.

Live streaming

If you are allocated to a lecture activity as a livestream unit you do not need to come to campus. A link to the livestreams will be available in your Moodle unit.

For information on how to participate in your lectures via live streaming you can review this guide created by the library: <https://guides.lib.monash.edu/learning-tools/video>

If you have any technical issues please contact the service desk: <https://www.monash.edu/esolutions/contact>

If you need more information on timetabling you can visit their site: <https://www.monash.edu/timetables/fix-problems>

Unit schedule

For units with on-campus classes, teaching activities are normally scheduled to start on the hour (teaching will commence on the hour and conclude 10 minutes prior to the scheduled end time).

Students should note that the program outlined below is a guide to the material to be covered in this unit and not a definitive statement of when that material will be covered. Specific details relating to the timing will be discussed in class.

Week	Topic	Assessment
1	Introduction to data collection methods	
2	Open data: definitions, sources and examples	
3	Case study: macroeconomic data	
4	Data ethics	Assignment 1 due
5	Case study: monitoring the Great Barrier Reef	
6	Case study: climate and environmental data	
7	Case study: US air traffic	Assignment 2 due
8	Case study: Australian census and election data	
9	Case study: International student assessment data	Assignment 3 due
10	The language of designed experiments	
11	Case study: Tennis and cricket statistics	
12	Synthesizing what we have learned	Assignment 4 due

Assessment summary

Within semester assessment: 100%

This unit contains hurdle requirements which you must achieve to be able to pass the unit. The consequence of not achieving a hurdle requirement is a fail grade (NH) and a maximum mark of 45 for the unit.

Assessment task	Value	Due date
Lab quizzes	20	During lab each week
Assignments	80	Weeks 4, 7, 9, 12

A student's final mark is normally the sum of the marks obtained in all of the individual assessment items in the unit.

Second marking

In the Faculty of Business and Economics, all of the following assessment items graded as a fail by the first marker are blind marked by a second marker:

- examination papers
- in-semester assessment items worth 20% or more

Return of final marks

Faculty policy states that 'the final mark that a student receives for a unit will be determined by the Board of Examiners taking into account all aspects of assessment'.

The final mark for this unit will be released by the Board of Examiners on the date nominated in the Faculty Calendar. Student results will be accessible through the my.monash portal.

Exam viewing

Feedback on student performance in examinations and other end-of-semester assessment is required. The feedback should be in accordance with the University's procedures on Unit Assessment. Details of the examination script viewing arrangements set down by the Faculty of Business and Economics are available at <https://www.monash.edu/business/current-students/exams-and-results/exam-performance-and-feedback>

Assessment criteria

Assessment Criteria Grading Descriptors available at:
https://www.monash.edu/_data/assets/pdf_file/0006/801690/Assessment-in-Coursework-Units-Grading-and-Marking-Procedures.pdf

Assessment requirements

Hurdle requirement

This unit has a threshold mark hurdle, which means you must achieve at least 45% of the available marks in the Final Exam/Final Major Assessment Task to be able to pass the unit. If you do not achieve the threshold mark, you will receive a fail grade (NH) and a maximum mark of 45 for the unit.

Collectively the lab quiz mark is subject to the 45% hurdle.

Participation

Attending lectures, or watching recordings is expected. If using the video recordings these should be accessed prior to the corresponding tutorial period for the week. It is best to be in the lecture, but watching the live streaming is a substitute, if you have to be elsewhere during lecture time.

Participation in tutorials is expected. There may occasionally be unforeseen circumstances, that may prevent a student from attending. In this case, you need to contact the instructor as soon as you know there will be a problem to attend, at the latest prior to the tutorial. Students may miss one tutorial without penalty. Missing two may result in an automatic failing grade.

Communication with instructors and tutors about our material is best through the Moodle discussion tool. If there is a private matter you may email to the course email account ETC5512.Clayton-x@monash.edu.

Assessment tasks

Assessment task title: Lab quizzes

Due Date: During lab each week

Weighting/Value: 20

Details of Task: Students will complete lab quizzes testing knowledge of material covered each week.

Release date: Wednesday at the end of last lecture period

Word limit: NA

Presentation requirements: NA

Estimated return date: Start of Thursday tutorial

Criteria for marking: Accuracy of answers

Learning objectives assessed: Objective 1

Submission details: Electronic through Moodle

Penalties for late lodgement: No late quizzes allowed

Assessment coversheet: NA

Additional information: NA

Assessment task title: Assignments

Due Date: Weeks 4, 7, 9, 12

Weighting/Value: 80

Details of Task: A data collection, and analysis is assigned related to topic covered in a three week period.

Release date: One week prior to due date

Word limit: NA

Presentation requirements: NA

Estimated return date: Two weeks after due date

Criteria for marking:

- Technical skills exhibited
- Accuracy in answers
- Creativity in approach
- Clarity of explanations

Learning objectives assessed: Learning objectives 2, 3

Submission details: Electronic submission of report, Rmarkdown and any necessary data files

Penalties for late lodgement: No late assignments accepted

Assessment coversheet: NA

Additional information: NA

Referencing requirements

To build your skills in citing and referencing, and using different referencing styles, see the online resources Academic Integrity: Demystifying Citing and Referencing at <https://www.monash.edu/rlo/research-writing-assignments/referencing-and-academic-integrity/citing-and-referencing>

Feedback

Our feedback to you

Types of feedback you can expect to receive in this unit are:

- Formal individual feedback on assignments expressed as a letter grade
- Answers to questions relating to the discipline or the unit's work
- Advice about seeking additional help to develop your writing or research skills
- Informal feedback relating to class activities

Your feedback to us

The Student Evaluation of Teaching and Units (SETU) is a survey in which students are able to rate their satisfaction of their units and teaching staff.

This is a new unit and your feedback on the unit will provide faculties with an insight into your learning journey and how the unit, course and teaching staff can be enhanced in future teaching periods.

If you would like to know more about SETU, please go to: www.monash.edu/ups/setu

Learning resources

Monash Library Unit Reading List (if applicable to the unit): <http://monash.rl.talis.com/index.html>
Research and Learning Online: www.monash.edu/rlo

Required resources

Students generally must be able to complete the requirements of their course without the imposition of fees that are additional to the student contribution amount or tuition fees. However, students may be charged certain incidental fees or be expected to make certain purchases to support their study. For more information about this, refer to the Higher Education Administrative Information for Providers, Chapter 18, Incidental Fees at <http://education.gov.au/help-resources-providers>

Reading materials as provided by the instructor

Technological requirements

Virtual learning environment (VLE): Moodle

Material used in class together with other information of importance to you will be published online via the unit's Moodle site. In order to access information about this unit in Moodle you must be enrolled in the unit and have a valid student account with authcate username and password. Moodle can be accessed through my.monash portal by clicking on the Moodle link under "Online systems". If you need some help with Moodle then check out the Moodle Support for Students page.

Q Manual

Work submitted for assessment must be consistent with the guidelines set down in the Q Manual, which is the faculty's student guide for producing quality work on time. Copies of this manual can be purchased at the bookshop or accessed online at https://www.monash.edu/business/5931328906e0c/pdf_file/current-students/qmanual.pdf

- R (latest release freely available from <https://cran.ms.unimelb.edu.au>, or another CRAN mirror) and contributed packages as needed.
- RStudio (latest desktop version) available for free from <https://www.rstudio.com/products/RStudio/#Desktop>

Other information

Policies

Monash has educational policies, procedures and guidelines, which are designed to ensure that staff and students are aware of the University's academic standards, and to provide advice on how they might uphold them. You can find Monash's Education Policies at: <http://www.policy.monash.edu/policy-bank/academic/education/index.html>

Student Academic Integrity Policy

Special Consideration

For information on applying for special consideration, please visit: <http://www.monash.edu/exams/changes/special-consideration>

Graduate Attributes Policy

<http://www.monash.edu/policy-bank/academic/education/course-governance-and-design/course-design-policy>

Student Charter

www.monash.edu/students/policies/student-charter.html

Student Services

The University provides many different kinds of services to help you gain the most from your studies. Further information is available at www.monash.edu/students

You can also access important information from the Faculty of Business and Economics current students page <https://www.monash.edu/business/current-students>

English Connect provide services to improve and develop your language skills with programs, including online English Connect Grammar Resources, Let's Chat conversational and oral skills group sessions, classes on oral presentation and public speaking skills (Speaking with Confidence) and grammar for academic English (Polish Up Your Grammar). Peer Support (one on one service) runs out of the Library and is to assist you with written assignments. You can register or gain more information at <http://www.monash.edu/english-connect>

Monash University Library

The Monash University Library provides a range of services, resources and programs that enable you to save time and be more effective in your learning and research.

Go to <http://www.monash.edu/library> or the library tab in my.monash portal for more information.

Disability Support Services

Students who have a disability, ongoing medical or mental health condition should contact Disability Support Services.

Disability Support Services also support students who are carers of a person who is aged and frail or has a disability, medical condition or mental health condition.

Disability Support Services will assess each student and recommend reasonable adjustment to teaching and assessment practices.

For within semester assessment activities, it is the students responsibility to provide confirmation of their requirement for alternative arrangements to the Chief Examiner or appropriate faculty

contact person responsible for administering the arrangements no later than two week before the assessment.

For mid semester tests being conducted at the Caulfield Racecourse, DSS provide the adjustments (eg larger font) and instructions to Exams Branch.

https://www.monash.edu/__data/assets/pdf_file/0004/801616/Assessment-in-Coursework-Units-Adjustments-to-Assessment-Procedures.pdf

Students Disability Advisers visit all Victorian campuses on a regular basis.

- Australian Campus Website: [monash.edu/disability](https://www.monash.edu/disability)
- Monash Malaysia Website: <https://www.monash.edu.my/student-services/support-services/disability-support>
- Monash South Africa Website: <https://www.iiemsa.co.za/disability-support/>
- Email: disabilitysupportservices@monash.edu

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