



UNSW SCIENCE
School of Maths and Statistics

Course outline

MATH2871

Data Management for Statistical Analysis

Term 1, 2023

Staff

Position	Name	Email	Room
Lecturer-in-charge	Dr. Leung Lung Chan	leung.chan@unsw.edu.au	RC-1036

Please refer to your Timetable on MyUNSW for your Lecture Tut, Lab enrolment days and times.

Timetable weblink: <https://timetable.unsw.edu.au/2023/MATH2871.html>

Administrative Contacts

Please visit the School of Mathematics and Statistics website for a range of information on School Policies, Forms and Help for Students.

For information on Courses, please go to “Current Students” and either Undergraduate and/or

methods. The course is based around Microsoft Access and Excel as well as the SAS statistical analysis system and programming tools. Knowledge and skills developed will be generic and applicable to a range of modern statistical software tools.

Course Aims

The course, which is a collaborative venture of the School of Mathematics and Statistics with SAS, aims to provide a practical introduction to the management and analysis of data. Large data sets are found widely in business, finance, bioinformatics, government, intelligence, etc. Skills in querying, cleaning, managing, displaying and analysing data, which is widely sought, will be developed in this course.

The course will provide you the opportunity to take the SAS certification in Base Programming. There is a fee to sit this SAS exam and will be stated later. SAS runs this certification at UNSW. After the course, SAS opera (t)-6.6n-0.00.6 (wn-0.41.315 Tdu)k6.6n-7 Tw 0 a1e(t)-6.7 (at)-6.6f a1e2 (l)2. (N)98 p2.6 (c

CLO5 Produce Summary Reports: Basic reports, accumulating totals.

CLO6 Control Input and Output: Output multiple observations, write to multiple datasets, select variables and observations.

CLO7 Transform data: Manipulate character and numeric values.

CLO8 Do iterative Processing: DO loops, arrays.

CLO9 Be able to combine Datasets.

CLO10 Demonstrate introductory knowledge of Graphics: Bar charts, pie charts, scatterplots.

Course Schedule

The course will include material taken from some of the following topics. This is should only serve

If a student breaches the Student Code with respect to academic integrity, the University may take disciplinary action under the **Student Misconduct Procedure**.

The UNSW Student Code and the Student Misconduct Procedure can be found at:

<https://student.unsw.edu.au/plagiarism>

An online Module “[Working with Academic Integrity](https://student.unsw.edu.au/aim)” (<https://student.unsw.edu.au/aim>) is a six-lesson interactive self-paced Moodle module exploring and explaining all of these terms and placing them into your learning context. It will be the best one-hour investment you’ve ever made.

Plagiarism

Plagiarism is presenting another person's work or ideas as your own. Plagiarism is a serious breach of ethics at UNSW and is not taken lightly. So how do you avoid it? A one-minute video for an overview of how you can avoid plagiarism can be found <https://student.unsw.edu.au/plagiarism>.

Additional Support

ELISE (Enabling Library and Information Skills for Everyone)

ELISE is designed to introduce new students to studying at UNSW.

Completing the ELISE tutorial and quiz will enable you to:

- f* analyse topics, plan responses and organise research for academic writing and other assessment tasks
- f* effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- f* use and manage information effectively to accomplish a specific purpose
- f* better manage your time
- f* understand your rights and responsibilities as a student at UNSW
- f* be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- f* be aware of the standards of behaviour expected of everyone in the UNSW community
- f* locate services and information about UNSW and UNSW Library

Some of these areas will be familiar to you, others will be new. Gaining a solid understanding of all the related aspects of ELISE will help you make the most of your studies at UNSW.

The *ELISE* training webpages:

Course Evaluation and Development (MyExperience)

Student feedback is very important to continual course improvement. This is demonstrated within the School of Mathematics and Statistics by the implementation of the UNSW online student survey *myExperience*, which allows students to evaluate their learning experiences in an anonymous way. *myExperience* survey reports are produced for each survey. They are released to staff after all student assessment results are finalised and released to students. Course convenor will use the feedback to make ongoing improvements to the course.