



**UNSW SCIENCE**  
**School of Maths and Statistics**

**Course outline**

**DATA5002**  
**Data Visualisation**

**Term 3, 2022**

## Staff

Position	Name	Email	Room
Lecturer-in-charge	Dr Pavel Krivitsky	<a href="mailto:p.krivitsky@unsw.edu.au">p.krivitsky@unsw.edu.au</a>	RC-1032

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

Timetable weblink: <http://timetable.unsw.edu.au/2022/DATA5002.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 “Student Life & resources page” and either Undergraduate Courses and/or Postgraduate Courses for information on all course offerings,

The “Student Notice Board” can be located by7 ( Tc 0.007 Tw 0 -1.587 TD[The “)-5.9 D587 TD[The “)-u4d 2.6 (on

## Course Description/Aims

This course will introduce statistical and visualisation tools for the exploratory analysis of data. Students will learn what makes an effective data visualisation and how to create interactive data visualisations. Visualisation in R, Tableau and other tools including cutting-edge graphical, immersive techniques will be used. There will be a strong focus on developing the skill of data storytelling: where students will learn to combine data, its visualisation and a narrative to create a powerful story to drive change.

## Assessment and Deadlines

Assessment	Week	Weighting %	Due date if applicable	Course Learning Outcome (CLO)
Assignment 1: Problem set and/or Moodle quiz	2	25%	Thursday of Week 4	CLO 1, 2 and 4

## Course Schedule

The course will include material taken from some of the following topics. This is should only serve as a guide as it is not an extensive list of the material to be covered and the timings are approximate. The course content is ultimately defined by the material covered in lectures.

<b>Weeks</b>	<b>Topic</b>	<b>Reading (if applicable)</b>
1	Principles of visualization	Refer to Moodle

The School of Mathematics and Statistics will assume that all its students have read and understood the School policies on the above pages and any individual course policies

- 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:

<https://subjectguides.library.unsw.edu.au/elise/aboutelise>

## **Equitable Learning Services (ELS)**

If you suffer from a chronic or ongoing illness that has, or is likely to, put you at a serious disadvantage, then you should contact the Equitable Learning Services (previously known as SEADU) who provide confidential support and advice.

They assist students:

- living with disabilities
- with long- or short-term health concerns and/or mental health issues
- who are primary carers
- from low SES backgrounds
- of diverse genders, sexes and sexualities
- from refugee and refugee-like backgrounds
- from rural and remote backgrounds
- who are the first in their family to undertake a bachelor-level degree.

Their web site is: <https://student.unsw.edu.au/els/services>

Equitable Learning Services (ELS) may determine that your condition requires special arrangements for assessment tasks. Once the School has been notified of these, we will make every effort to meet the arrangements specified by ELS.

Additionally, if you have suffered significant misadventure that affects your ability to complete the course, please contact your Lecturer-in-charge in the first instance.

## **Academic Skills Support and the Learning Centre**

The Learning Centre offers academic support programs to all students at UNSW Australia. We assist students to develop approaches to learning that will enable them to succeed in their academic study. For further information on these programs please go to: