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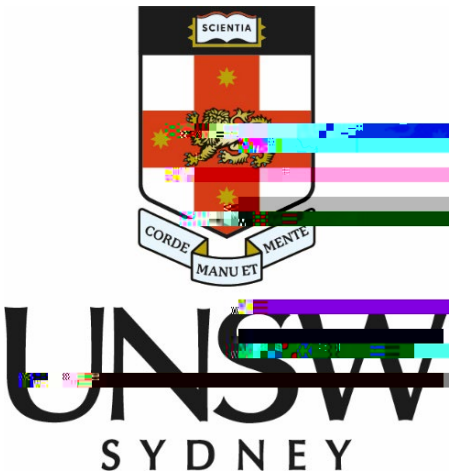

UNSW Science

School of Mathematics & Statistics

Course Outline

MATH5231
Prediction and Inverse Modelling Ocn ae tiscre

CLO 3	Apply variational and statistical techniques in inverse modelling and data assimilation to real- world systems including numerical weather prediction and ocean state estimation	Assignment 3, participation in discussion sessions, final group

Week

Final exam

There is no final exam for this course.

Further information

UNSW grading system: https://student.unsw.edu.au/grades

UNSW assessment policy: https://student.unsw.edu.au/assessment

Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.
Further information about referencing styles can be located at
https://student.unsw.edu.au/referencing

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits**:** honesty, trust, fairness, respect, responsibility and courage.[1] At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

The Conduct and Integrity Unitprovides further resources to assist you to understand your conduct obligations as a student: https://student.unsw.edu.au/conduct.
For information about Additional Assessments and other Administrative matters relating to

- Inverse Modeling of the Ocean and Atmosphere, Andrew Bennett, CUP (2002)
- Discrete Inverse and State Estimation Problems, Carl Wunsch, CUP (2006)

Coding resources

Although not a prerequisite for this course, students are encouraged to familiarize themselves with Python before term begins.

Code Academy (https://www.codecademy.com) provides free online tutorials in Python and

The **UNSW Student Code** provides a framework for the standard of conduct expected of UNSW students with respect to their academic integrity and behaviour. It outlines the primary obligations of students and directs staff and students to the Code and related procedures.

In addition, it is important that students understand that it is not permissible to buy essay/writing services from third parties as the use of such services constitutes plagiarism because it involves using the words or ideas of others and passing them off as your own. Nor is it permissible to sell copies of lecture or tutorial notes as students do not own the rights to this intellectual property.

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

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- be aware of the standards of behaviour expected of everyone in the UNSW community
- 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 ELISEtraining 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

Applications for Special Consideration for Missed Assessment

Please adhere to the Special Consideration