



UNSW SCIENCE
School of Maths and Statistics

Staff

Position	Name	Email	Room
Lecturer-in-charge	Dr Mareike Dressler	m.dressler@unsw.edu.au	RC-2074

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

Timetable weblink: <http://timetable.unsw.edu.au/2022/MATH5185.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 by going to the “Student Life & resources” page; Notices are posted regularly for your information here. Please fam (l)2.3ormateD [(To)10.5 1 Plcim47.56 0uo(r)9

Assessment and Deadlines

Assessment	Week	Weighting %	Due date if applicable
Individual Assignment		10%	Individual dates
Assignment 1		20%	Week 7
Assignment 2		20%	Week 10
Final Exam		50%	Exam Period

Late Submission of Assessment Tasks

A late penalty of 5% of the maximum mark for the task will be applied per day or part day any assessment task is submitted more than 1 hour late. (Where "late" in this context means after any extensions granted for Special Consideration or Equitable Learning Provisions.) For example, an assessment task that was awarded 75% would be given 65% if it was 1-2 days late. Any assessment task submitted 7 or more days late will be given zero.

Note that the penalty does not apply to

Assessment tasks worth less than 5% of the total course mark, e.g. weekly quizzes, weekly class participation, or weekly homework tasks

As this is a Special Topics Course which has not been previously offered information on the Handbook would not be available.

Textbooks

There is no required text for this course. Below are suggested textbooks that expand on the material covered in this course (in alphabetical order):

- S. Boyd, L. Vandenberghe: "Convex Optimization", Cambridge University Press, 2004.
- S. Basu, R. Pollack, M.F. Roy: "Algorithms in real algebraic geometry", Springer 2003.
- G. Blekherman, P.A. Parillo, R.R. Thomas "Semidefinite Optimization and Convex Algebraic Geometry", MOS-SIAM Series on Optimization, 2013.
- J.B. Lasserre: "An Introduction to Polynomial and Semi-Algebraic Optimization", Cambridge University Press, 2015.
- J.B. Lasserre: "Moments, Positive Polynomials and Their Applications", Imperial College Press, 2009.
- M. Laurent: "Sums of squares, moment matrices and optimization over polynomials", Survey, Emerging applications of algebraic geometry, Springer New York, 2009.
- M. Marshall: "Positive Polynomials and Sums of Squares", Mathematical Surveys and Monographs, AMS, 2008.

Moodle

Log in to Moodle to find announcements, general information, notes, lecture slide, classroom tutorial and assessments etc.

<https://moodle.telt.unsw.edu.au>

School and UNSW Policies

The School of Mathematics and Statistics has adopted a number of policies relating to enrolment, attendance, assessment, plagiarism, cheating, special consideration etc. These are in addition to the Policies of The University of New South Wales. Individual courses may also adopt other policies in addition to or replacing some of the School ones. These will be clearly notified in the Course Initial Handout and on the Course Home Pages on the Maths Stats web site.

Students in courses run by the School of Mathematics and Statistics should be aware of the School and Course policies by reading the appropriate pages on the Maths Stats web site starting at:

<https://www.maths.unsw.edu.au/currentstudents/assessment->

Academic Integrity and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

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

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 *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

<https://student.unsw.edu.au/special-consideration>

Please note that the application is not considered by the Course Authority, it is considered by a centralised team of staff at the Nucleus Student Hub.

The School will contact you (via student email account) after special consideration has been granted to reschedule your missed assessment, for a *lab test or paper-based test* only.

For applications for special consideration for *assignment extensions*, please note that the new submission date and/or outcome will be communicated through the special consideration web site only, no communication will be received from the School.

For Dates on Final Term Exams and Supplementary Exams please check the “Key Dates for Exams” ahead of time to avoid booking holidays or work obligations.

<https://student.unsw.edu.au/exam-dates>

If you believe your application for Special Consideration has not been processed, you should email specialconsideration@unsw.edu.au immediately for advice.

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.