Course Outline

CLIM2001/PHYS2801

Fundamentals of Atmospheric science

School of BEES

Faculty of Science

T1, 2022

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1. Staff

Position	Name	Email	Consultation times and locations
Course Convenor	Martin Jucker	martin.jucker@unsw.edu.au	By appointment
Lab assistant	Valentina Ortiz	v.ortiz@unsw.edu.au	By appointment

2. Course information

Units of credit: 6UOC

Pre-requisite(s): None

Teaching times and locations:

Component	HPW	Time & Location
Lecture	*3 x 1h*	*Tue, 1-2pm* *Wed, Thu 9-10pm*
Tutorial	*2*	*Fri, 9-11am*

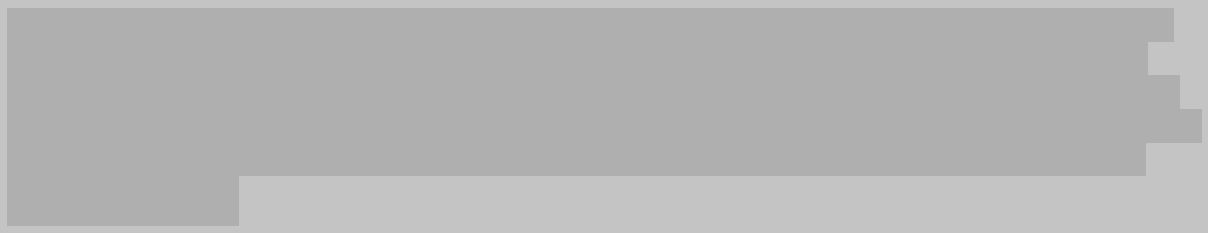
http://www.timetable.unsw.edu.au/2022/CLIM2001.html

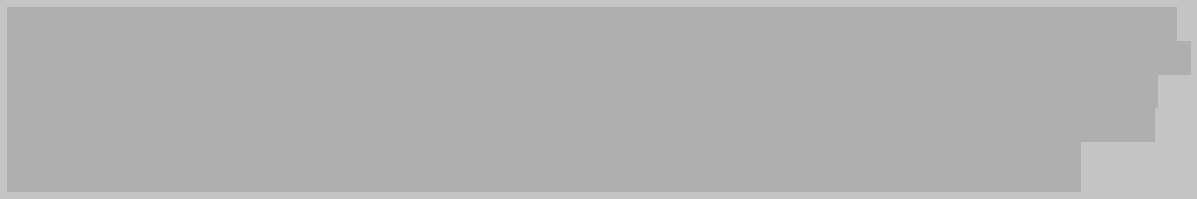
2.1 Course summary

This course covers the basic physical principles and processes which govern our atmosphere and its climate. First of all, this course provides an introduction and overview of our atmosphere, the main physical principles that govern its behaviour, and how to apply them to important questions about weather and climate. This shows students an important application of basic physics (and a bit of chemistry), and for Oceanography, Meteorology and Climate students this will provide a necessary foundation upon which later courses will build. For instance, you will learn about the greenhouse effect, how to use charts to determine the likelihood of storms developing, why deserts occur at certain latitudes, how weather systems evolve, and how to use the Bureau of Meteorology's radar images on its website to track thunderstorms. This course will also train students in how to apply basic principles of physics and mathematics (including calculus) to real-world problems and situations. This skill will add value to the work you have already invested in learning those principles and will be relevant no matter what later path in life you take.

We will cover about one third of the Wallace & Hobbs textbook. This respected textbook does go beyond the scope of this course. It provides a good resource if you are keen to take atmospheric and climate science further, and you are encouraged to browse the parts of the book not explicitly covered in order to get a more comprehensive view of the science. However, all necessary material is discussed during the lectures and will be contained in the provided lecture notes.

2.2 Course aims





4. Course schedule and structure

Further information about academic integrity and **plagiarism** can be located at:

- The *Current Students* site http://www.lc.unsw.edu.au/academic-integrity-plagiarism**,** and
- The *ELISE* training site subjectguides.library.unsw.edu.au/elise

The *Conduct and Integrity Unit* provides further resources to assist you to understand your conduct obligations as a student: student.unsw.edu.au/conduct.

6. Grievance policy

In all cases you should first try to resolve any issues with the course convenor. If this is unsatisfactory, you should contact the School Student Ethics Officer or the School's Grievance Officer / Designated

9. Administrative matters

School information	School website: http://www.bees.unsw.edu.au/ School office – The Biosciences Student Office is where to go for administrative matters relating to BEES courses. It is located on the ground floor of the biological sciences building, room G27. BEESinfo@unsw.edu.au
Occupational Health and Safety	Information on relevant Occupational Health and Safety policies and can be found on the following website: http://www.bees.unsw.edu.au/health-and-safety UNSW OHS Home page: http://safety.unsw.edu.au/
Equity and Diversity	Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their

10. Additional support for students

- The *Current Students* Gateway: student.unsw.edu.au
- Academic Skills and Support: student.unsw.edu.au/skills
- Student Wellbeing, Health and Safety: student.unsw.edu.au/wellbeing
- Disability Support Services: student.unsw.edu.au/disability
- UNSW IT Service Centre: www.it.unsw.edu.au/students
- Special Consideration: https://student.unsw.edu.au/special-consideration
- Assessment Implementation Procedure: https://www.gs.unsw.edu.au/policy/documents/assessmentimplementationprocedure.pdf