

Programme Specification

MSc in Atmosphere, Ocean and Climate (full-time)

PFTAOCM

MSc in Atmosphere, Ocean and Climate (part-time)

PPTAOCM

For students entering in 2023/24

This document sets out key information about your Programme and forms part of your Terms and Conditions with the University of Reading.

Awarding Institution	University of Reading
Teaching Institution	University of Reading
Length of Programme	MSc in Atmosphere, Ocean and Climate (full-time) - 1 years MSc in Atmosphere, Ocean and Climate (part-time) - 2 years
Accreditation	Royal Meteorological Society
Programme Start Dates	September

Programme information and content

The aim of the Atmosphere, Ocean and Climate MSc programme is to provide the scientific background for research and other careers across a broad spectrum of meteorology-related science. It focuses particularly on a quantitative description of the physical processes that produce weather, the ways weather systems combine to form climates and the techniques used to simulate weather systems and climate on computers. Students graduating from this programme should have the knowledge and the technical and computing skills to equip them to carry out quantitative scientific research and technical projects not only within meteorology but also within related areas of environmental science.

Module information

The programme comprises of 180 credits, allocated across a range of compulsory and optional modules. Compulsory modules are listed.

Compulsory modules

Module	Name	Credits	Level
MTMG01	Introduction to Weather Systems	10	M
MTMG02	Atmospheric Physics	10	M
MTMG04	Weather and Climate Discussion	0	M
MTMG05	Professional Skills	10	M
MTMG34	Experiencing the Weather (Field Course)	10	M
MTMG99	Dissertation Project	60	M
MTMW11	Fluid Dynamics of the Atmosphere and Oceans	20	M
MTMW12	Introduction to Numerical Modelling	10	M
MTMW14	Numerical Modelling of Atmospheres and Oceans	10	M

The remaining credits will be taken from the list of optional modules from the School of Mathematical, Physical and Computational Sciences, or from an approved list of modules from across the University.

Part-time or flexible modular arrangements

Students who wish to do the MSc programme part time over two years should contact the Programme Director to discuss details.

Additional costs of the programme

Outdoor clothing suitable for UK autumn weather is required for the module MTMG34 Experiencing the Weather. Costs depend on what needs to be purchased. Costs are indicative and may vary according to optional modules chosen and are subject to inflation and other price fluctuations. The estimates were calculated in 2022.

Optional modules

The optional modules available can vary from year to year. An indicative list of the range of optional modules for your Programme is set out in the Further Programme Information. Details of any additional costs associated with the optional modules, will be made available to you prior to the beginning of the programme. Entry to optional modules will be at the discretion of the University and subject to availability. Although the University tries to ensure you are able to take the optional modules in which you have expressed interest this cannot be guaranteed.

Placement opportunities

N/A

Study abroad opportunities

N/A

Teaching and learning delivery

You will be taught through lectures, tutorials, workshops and laboratory classes. Assessment takes a variety of formats; Laboratory classes are primarily assessed via a write-up of the laboratory work and results, lecture material for most modules is assessed via a mixture of written coursework and end of semester examination. The assessment of some modules may include oral presentations and group work exercises.

Total study hours for your programme will be 1800 hours. The contact hours for your programme will depend upon your module combination; an average for a typical set of modules on this programme is – 350 hours. In addition to your scheduled contact hours, you will be expected to undertake guided independent study. Information about module contact hours and the amount of independent study which a student is normally expected to undertake for a module is indicated in the relevant module description.

Accreditation details

Accredited by the Royal Meteorological Society (RMetS) for the purpose of fully meeting the educational requirement for Chartered Meteorologist. For the full requirements for Chartered Meteorologist please contact the Royal Meteorological Society.

Assessment

The programme will be assessed through a combination of written examinations, coursework (including class tests). Some module assessments may include assessment of group work and oral presentations. Further information is contained in the individual module descriptions.

Progression

N/A

Classification

The University's taught postgraduate marks classification is as follows:

Mark Interpretation

70 - 100% Distinction

60 - 69% Merit

50 - 59% Good standard (Pass)

Failing categories:

40 - 49% Work below threshold standard

0 - 39% Unsatisfactory Work

For Masters Degree

To qualify for **Distinction**, students must

- i. gain an overall average of 70 or more over 180 credits; and
- ii. a mark of 60 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. students must not have any mark below 40.

To qualify for **Merit**, students must

- i. gain an overall average of 60 or more over 180 credits; and
- ii. a mark of 50 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. students must not have any mark below 40.

To qualify for **Passed**, students must

- i. gain an overall average of 50 or more over 180 credits; and
- ii. a mark of 50 or more for the dissertation; and
- iii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iv. the total credit value of all modules marked below 40 must not exceed 30 credits.

For PG Diploma

To qualify for **Distinction**, students must

- i. gain an overall average of 70 or more over 120 credits; and
- ii. In addition, the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. students must not have any mark below 40.

To qualify for **Merit**, students must

- i. gain an overall average of 60 or more over 120 credits; and
- ii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. students must not have any mark below 40.

To qualify for **Passed**, students must

- i. gain an overall average of 50 or more over 120 credits; and
- ii. the total credit value of all modules marked below 50 must not exceed 55 credits; and
- iii. the total credit value of all modules marked below 40 must not exceed 30 credits.

For PG Certificate

To qualify for a **Postgraduate Certificate**, students must

- i. gain an overall average of 50 or more over 60 credits; and
- ii. the total credit value of all modules marked below 40 must not exceed 10 credits.

For further information about your Programme please refer to the Programme Handbook and the relevant module descriptions, which are available at <http://www.reading.ac.uk/module/>. The Programme Handbook and the relevant module descriptions do not form part of your Terms and Conditions with the University of Reading.

MSc in Atmosphere, Ocean and Climate (full-time) for students entering in session 2023/24
20 June 2022

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