Schedule for compulsory courses in ATM-MP study track of Meteorology

This document gives two indicative schedules for the compulsory courses in the ATM-MP study track of meteorology in the 2026-2030 curriculum period. Non-compulsory courses are not included.

Two different schedules are given, because the number of compulsory courses depends on your prior studies:

- The first schedule applies to students who have either (i) already completed their Basic studies in meteorology (courses FYS2031-FYS2035, total of 25 cu) in the Bachelor program for Physical Sciences at the University of Helsinki or (ii) have equivalent knowledge from their earlier studies in another university.
- The second schedule applies to those who have no previous studies equivalent to FYS2031-FYS2035, and who must therefore include these courses in their MSc degree.
- In case that you have completed (or have equivalent knowledge for) some but not all FYS2031-FYS2035, you need to "interpolate" between the two schedules. Ask for advice from your academic mentor or the course teachers when needed.

Schedule 1: FYS2031-FYS2035 or equivalent completed before MSc studies

The numbers in the table give the number of credit units (cu). The credit units for *ATM345 Atmospheric Science Seminar for Master's Students* are evenly distributed over the 2-year target study time.

		Year 1				Year 2			
	cu	**I**	**II**	**III**	**IV**	**I**	**II**	**III**	**IV**
Compulsory for all study tracks									
ATM301 Atm. and Earth Sciences Today	5	5							
ATM345 Atmospheric Science Seminar	5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
ATM350 Master's thesis[a]	30					(x)	(x)	15	15
Compulsory for meteorology study track									
ATM315 Num. Solution of Shallow Water Eq.	5			5					
ATM322 Meteorol. Observation Systems	5		5						
ATM347 Boundary Layer Physics I[b]	5				5				
ATM348 Dyn. Atm. Flow. Struct I	5	5							
ATM349 Dyn. Atm. Flow. Struct II	5		5						
ATM352 Synoptic Meteorology I[b]	5		5						
ATM351 Mesometeorology	5			5					
ATM354 Cloud Physics[b]	5						5		
ATM355 Atmospheric General Circulation	5			5					
ATM357 Atmospheric Radiation	5	5							
Credit units	90	15.6	15.6	15.6	5.6	0.6	5.6	15.6	15.6

a = The timing of the MSc thesis is flexible. Most of the work is usually done in 2nd year spring, but it is possible (and in many cases recommendable) to start earlier.
b = Some courses can be taken either in year 1 or year 2, depending on the optional courses that the student plans to take.

Schedule 2: FYS2031-FYS2035 taken as part of MSc studies

		Year 1				Year 2			
	cu	**I**	**II**	**III**	**IV**	**I**	**II**	**III**	**IV**
Basic studies in meteorology									
FYS2031 Introduction to Meteorology and Weather Observations	5	5							
FYS2032 Atmospheric Thermodynamics	5		5						
FYS2033 Introduction to Atmospheric flow dynamics	10	5	5						
FYS2034 Introduction to Climatology	2			2					
FYS2035 Physical Climatology	3			3					
Compulsory for all study tracks									
ATM301 Atmospheric Science Seminar	5	5							
ATM345 Atm. Science Seminar	5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
ATM350 Master's thesis[a]	30					(x)	(x)	15	15
Compulsory for meteorology study track									
ATM315 Num. Solution of Shallow Water Eq.	5			5					
ATM322 Meteorol. Observation Systems	5						5		
ATM347 Boundary Layer Physics I	5				5				
ATM348 Dyn. Atm. Flow. Struct I	5					5			
ATM349 Dyn. Atm. Flow. Struct II	5						5		
ATM352 Synoptic Meteorology I	5						5		
ATM351 Mesometeorology	5			5					
ATM354 Cloud Physics	5		5						
ATM355 Atmospheric General Circulation[b]	5			(x)				5	
ATM357 Atmospheric Radiation	5					5			
Total number of credit units	115	15.6	15.6	15.6	5.6	10.6	15.6	20.6	15.6

a = The timing of the MSc thesis is flexible. Most of the work is usually done in 2nd year spring, but it is possible (and in many cases recommendable) to start earlier.
b = ATM355 Benefits from ATM348-349, but it is also fully possible to study it before these courses.