

ATM319 Measurements of Atmospheric aerosols: Aerosol Physics, Sampling and Measurement Techniques (2020-2023)

HUOMI! OPINTOJAKSOJEN TIETOJEN TÄYTTÄMISTÄ KOORDINOIVAT KOULUTUSSUUNNITTELIJAT HANNA-MARI PEURALA JA TIINA HASARI

- 1. Course title
- 2. Course code
- 3. Course status: optional
- 4. Course level (first-, second-, third-cycle/EQF levels 6, 7 and 8)
- 5. Recommended time/stage of studies for completion
- 6. Term/teaching period when the course will be offered
- 7. Scope of the course in credits
- 8. Teacher coordinating the course
- 9. Course learning outcomes
- 10. Course completion methods
- 11. Prerequisites
- 12. Recommended optional studies
- 13. Course content
- 14. Recommended and required literature
- 15. Activities and teaching methods in support of learning
- 16. Assessment practices and criteria, grading scale
- 17. Teaching language

1. Course title

Ilmakehän aerosolien, reaktiivisten kaasujen ja pilvipisaroiden havaintomenetelmät

Atmospheric observations of aerosols, clouds and reactive trace gases

2. Course code

ATM319

Aikaisemmat leikkaavat opintojaksot 530080 Ilmakehän aerosolien mittaus: aerosolifysiikka, näytteenotto- ja mittausmenetelmät, 4 op.

3. Course status: optional

-Which degree programme is responsible for the course?
Master's Programme in Atmospheric Sciences

-Which module does the course belong to?
ATM300 Advanced Studies in Atmospheric Sciences (optional for Study Track in Aerosol Physics)

-Is the course available to students from other degree programmes?
Yes

4. Course level (first-, second-, third-cycle/EQF levels 6, 7 and 8)

Master's level, degree programmes in medicine, dentistry and veterinary medicine = secondcycle degree/EQF level 7
Doctoral level = third-cycle (doctoral) degree/EQF level 8

-Does the course belong to basic, intermediate or advanced studies (cf. Government Decree on University Degrees)?
Advanced studies

5. Recommended time/stage of studies for completion

-The recommended time for completion may be, e.g., after certain relevant courses have been completed.

6. Term/teaching period when the course will be offered

The course will be given every year as a 1,5 week field course in May.

7. Scope of the course in credits

5 cr

8. Teacher coordinating the course

Kaarle Hämeri

9. Course learning outcomes

- Description of the learning outcomes provided to students by the course
- See the competence map (<https://flamma.helsinki.fi/content/res/pri/HY350274>).

10. Course completion methods

- Will the course be offered in the form of contact teaching, or can it be taken as a distance learning course?
- Description of attendance requirements (e.g., X% attendance during the entire course or during parts of it)
- Methods of completion

11. Prerequisites

- Description of the courses or modules that must be completed before taking this course or what other prior learning is required

12. Recommended optional studies

- What other courses are recommended to be taken in addition to this course?
- Which other courses support the further development of the competence provided by this course?

13. Course content

- Description of the course content

14. Recommended and required literature

- What kind of literature and other materials are read during the course (reading list)?
- Which works are set reading and which are recommended as supplementary reading?

15. Activities and teaching methods in support of learning

- See the competence map (<https://flamma.helsinki.fi/content/res/pri/HY350274>).
- Student activities
- Description of how the teacher's activities are documented

16. Assessment practices and criteria, grading scale

-See the competence map (<https://flamma.helsinki.fi/content/res/pri/HY350274>).
-The assessment practices used are directly linked to the learning outcomes and teaching methods of the course.

17. Teaching language