

Arctic Science, 15 January – 2 March 2018
4.5 ECTS
Schedule

The Swedish Government finances this course. It is a distance course with one meeting in Umeå in January and one in Kiruna in February.

Course coordinator and examiner

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Course administrator

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We reserve the right to make adjustments in the schedule if necessary. The exact schedule will be somewhat dependent on the weather.

Umeå meeting 22-23 January
Introduction to Arctic Science for exchange students

Monday 22 January 15:15 – 17:00 Room N460 Naturvetarhuset	<i>General information and course registration</i> <i>Overview of the course</i> <i>What is the Arctic and what is its role in climate change?</i> <i>Introduction to snow and ice phenomena</i> Carol Norberg
Tuesday 23 January 10:15 – 12:00 Room N410 Naturvetarhuset	<i>Introduction to the physics of the aurora and the aurora observation exercise</i> Carol Norberg

Kiruna meeting, 11th – 14th February 2 nights in Kiruna, 1 night in Abisko

Sunday 11 Feb. 07:08 (recommended)	Train departs from Umeå C, arrives Kiruna 14:37 (1 change) Evening: Independent aurora observations weather permitting
Monday 12 Feb. Early start! 8:40 – 9:15 9:15 – 9:45 9:45 – 10:00 10:00 – 10:45 11:00 – 12:00 12:15 – 13:00 13:00 13:30 regular bus to Jukkasjärvi 15:00 16:30	Swedish Institute of Space Physics (IRF), Auditorium Regular bus departs from bus station 7:55, passes OK Parken a couple of minutes later, arrives IRF at about 8:30 <i>Practical matters & presentation</i> , Carol Norberg & Carina Gunillasson <i>Current activities of the Swedish Institute of Space Physics</i> , Ella Carlsson Coffee Tour of the Space Campus <i>Living in a cold climate</i> , Fredrik Kjellberg Lunch Group photograph Visit to ICEHOTEL, Jukkasjärvi Guided tour of the ICEHOTEL followed by free time to look around. Regular bus departs Jukkasjärvi and returns to Kiruna town centre. Evening: Independent aurora observations weather permitting
Tuesday 13 Feb. 8:45 – 10:45 11:00 – 12:00 13:30 15:00 15:45 16:00 – 17:00 17:00 – 17:30 17:30 – 18:00 21:00	Parkskolan, Auditorium <i>Snow exercise</i> , The exercise comprises an introduction, outdoor snow pack investigation, involving digging in the snow and concludes with a group discussion. <i>Lecture – snow crystals</i> , Thomas Kuhn Abisko excursion Chartered bus departs for Abisko from Folkhögskolan <i>Check-in at the tourist station</i> Bus transfer to Abisko Research Station <i>The climate's impact on the Arctic environment</i> , Keith Larsson at the Abisko Research Station <i>Ice crystals observed in caves</i> , Veerle Sterken <i>Glaciers</i> , Carol Norberg Gather in the tourist station reception dressed for outdoor aurora observations (optional)
Wednesday 14 Feb 9:00 10:45 11:00 12:26 (recommended)	Abisko tourist station <i>Lecture: Avalanches</i> in conference, Stefan Hedlund, Konten <i>Room cleaning check</i> <i>Check-out</i> Train departs from Abisko tourist station, arrives Umeå C 21:50 (1 change)

A bus journey between Kiruna city center and the Swedish Institute of Space Physics costs about 25 Swedish kronor for students.

Participating lecturers

Dr. Carol Norberg, Reader in Space Physics, Umeå University

Dr. Ella Carlsson, Deputy Director, Swedish Institute of Space Physics

Moa Persson, Ph.D student, Swedish Institute of Space Physics

Dr. Thomas Kuhn, Assistant Professor, Satellite Atmospheric Science Group, Luleå University of Technology

Dr. Fredrik Kjellberg, Senior physician Kiruna Hospital

Dr. Keith Larsson, Postdoctoral researcher, Climate Impacts Research Centre, Umeå University

Stefan Hedlund, Abisko Tourist Station

Dr. Veerle Sterken, Switzerland