

Arctic Science, 21 January – 8 March 2019
4.5 ECTS

Updated Schedule 3

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

Umeå meeting 28-29 January

Introduction to Arctic Science for exchange students

Monday 28 January 15:15 – 17:00 Room N410 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 29 January 10:15 – 12:00 Room N410 Naturvetarhuset	<i>Introduction to the physics of the aurora and the aurora observation exercise</i> Carol Norberg

Arctic Science Kiruna meeting, 17th – 20th February
Updated schedule
2 nights in Kiruna, 1 night in Abisko

<p>Sunday 17 Feb. 06:17 (recommended)</p>	<p>Train departs from Umeå C, arrives Kiruna 14:29 (1 change)</p> <p>Evening: Independent aurora observations weather permitting</p>
<p>Monday 18 Feb. Early start! 8:00</p> <p>8:40 – 9:15</p> <p>9:15 – 9:45</p> <p>9:45 – 10:00</p> <p>10:00 – 10:45</p> <p>11:00 – 12:00</p> <p>12:15 – 13:00</p> <p>13:00</p> <p>13:30 regular bus to Jukkasjärvi</p> <p>15:00</p> <p>16:28</p>	<p>Swedish Institute of Space Physics (IRF), Aula</p> <p>Bus departs from Folkhögskolan 8:00, arrives Space Campus approx 08:30 (Bus ticket 84 kronor)</p> <p><i>Practical matters & presentation</i>, Carol Norberg & Carina Gunillasson</p> <p><i>Current activities of the Swedish Institute of Space Physics</i>, Hans Nilsson</p> <p>Coffee</p> <p>Tour of the Space Campus</p> <p><i>Living in a cold climate</i>, Fredrik Kjellberg</p> <p>Lunch break</p> <p>Group photograph</p> <p>Visit to ICEHOTEL, Jukkasjärvi</p> <p>Guided tour of the ICEHOTEL 15:00 to 15:30 followed by free time to look around.</p> <p>Regular bus departs Jukkasjärvi and returns to Kiruna town centre.</p> <p>Evening: Independent aurora observations weather permitting</p>
<p>Tuesday 19 Feb. 8:45 – 10:45</p> <p>11:00 – 12:00</p> <p>13:30</p> <p>15:00</p> <p>15:30</p> <p>16:00 – 17:00</p> <p>17:15 – 17:45</p> <p>21:00</p>	<p>Parkskolan, Auditorium</p> <p><i>Snow exercise</i>, The exercise comprises an introduction, outdoor snow pack investigation, involving digging in the snow and concludes with a group discussion.</p> <p><i>Lecture – snow crystals</i>, Thomas Kuhn</p> <p>Abisko excursion</p> <p>Chartered bus departs for Abisko from Folkhögskolan</p> <p><i>Check-in at the tourist station</i></p> <p>Bus transfer to Abisko Research Station</p> <p><i>The climate's impact on the Arctic environment</i>, Keith Larsson at the Abisko Research Station</p> <p>Walk back to the tourist station</p> <p>Gather in the tourist station reception dressed for outdoor aurora observations (optional)</p>
<p>Wednesday 20 Feb. 8:30</p> <p>9:30</p> <p>10:00 – 11:00</p> <p>12:22 (recommended)</p>	<p>Abisko tourist station</p> <p>Room cleaning check by tourist station personnel</p> <p>Check-out</p> <p><i>Lecture: Avalanches</i>, Stefan Hedlund in conference room</p> <p>Konten</p> <p>Train departs from Abisko tourist station, arrives Umeå C 21:03 (1 change)</p>

Rent of sheets and towel at the tourist station in Abisko costs 225 kronor per person.

Participating lecturers

Dr. Carol Norberg, Reader in Space Physics, Umeå University
 Dr. Hans Nilsson, Moa Persson, Audrey Schillings, Philipp Wittmann, Swedish Institute of Space Physics
 Dr. Thomas Kuhn, Assistant Professor, Luleå University of Technology
 Dr. Fredrik Kjellberg, Senior physician Kiruna Hospital
 Dr. Keith Larsson, Researcher, Climate Impacts Research Centre, Umeå University
 Stefan Hedlund, Avalanche technician, Abisko Tourist Station