

Arctic Science, 16 January – 24 February 2017

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

Umeå meeting 24-25 January

Introduction to Arctic Science for exchange students

Tuesday 24 January 15:15 – 17:00 Room N410 Naturvetarhuset	<i>General information and course registration</i> <i>Overview of the course</i> <i>Introduction to the physics of the aurora and the aurora observation exercise, Carol Norberg</i>
Wednesday 25 January 8:15 – 10:00 Room N410 Naturvetarhuset	<i>Introduction to snow and ice phenomena in the arctic,</i> Carol Norberg

Kiruna meeting, 12th – 15th February 2 nights in Kiruna, 1 night in Abisko

<p>Sunday 12 Feb. 06:30 (recommended)</p>	<p>Train departs from Umeå C, arrives Kiruna 14:19 (1 change in Boden station)</p> <p>Evening: Independent aurora observations weather permitting</p>
<p>Monday 13 Feb. Early start!</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>16:30</p>	<p>Swedish Institute of Space Physics (IRF), Auditorium</p> <p>Regular bus departs from bus station 7:55, passes OK Parken a couple of minutes later, arrives IRF at about 8:30</p> <p><i>Practical matters & presentation</i>, Carol Norberg & Carina Gunillasson</p> <p><i>Current activities of the Swedish Institute of Space Physics</i>, Lars Eliasson</p> <p>Coffee</p> <p>Tour of the Space Campus</p> <p><i>Lecture – snow crystals</i>, Thomas Kuhn</p> <p>Lunch</p> <p>Group photograph</p> <p>Visit to ICEHOTEL, Jukkasjärvi</p> <p>Guided tour of the ICEHOTEL 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 14 Feb. 8:45 – 10:45</p> <p>11:00 – 12:00</p> <p>13:20</p> <p>13:30</p> <p>15:00</p> <p>15:45</p> <p>16:00 – 17:00</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>Living in a cold climate</i>, Fredrik Kjellberg</p> <p>Abisko excursion</p> <p>Chartered bus departs for Abisko from Parkskolan</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>Gather in the tourist station reception dressed for outdoor aurora observations</p>
<p>Wednesday 15 Feb 9:00</p> <p>10:00 – 11:00</p> <p>12:29 (recommended)</p>	<p>Abisko tourist station</p> <p><i>Check-out and room cleaning check</i></p> <p><i>Lecture: Avalanches</i> in conference room Konten, Jenny Råghall prel.</p> <p>Train departs from Abisko, arrives Umeå 22:21 (1 change at Boden station)</p>

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. Lars Eliasson, 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

Jenny Råghall, Avalanche technician