

Arctic Science, 20 January – 6 March 2020 4.5 ECTS

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

Dr. Carol Norberg, Umeå University
E-mail: carol.norberg@irf.se
Telephone +46-70-2793999

Course administrator

Carina Gunillasson, Swedish Institute of Space Physics
E-mail: carina.gunillasson@irf.se
Telephone +46-980-79000
Mobile +46-70-2156929

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

Umeå meeting 27-28 January Introduction to Arctic Science for exchange students

| | |
|---|--|
| Monday 27 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 28 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, 16th – 19th February
Updated schedule
2 nights in Kiruna, 1 night in Abisko

| | |
|--|---|
| <p>Sunday 16 Feb. 06:20 (recommended)</p> | <p>Train departs from Umeå C, arrives Kiruna 14:34 (1 change)</p> <p>Evening: Independent aurora observations weather permitting</p> |
| <p>Monday 17 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>13:15</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 Bus departs from Folkhögskolan 8:00, arrives IRF Kiruna-IRF-ICEHOTEL-Kiruna 66 SEK, Card payment <i>Practical matters & presentation</i>, Carol Norberg & Carina Gunillasson <i>Current activities of the Swedish Institute of Space Physics</i> Coffee Tour of the Space Campus <i>Lecture – snow crystals</i>, Thomas Kuhn Lunch break Group photograph Visit to ICEHOTEL, Jukkasjärvi</p> <p>Guided tour of the ICEHOTEL 15:00 to 15:30 followed by free time to look around. Regular bus departs Jukkasjärvi and returns to Kiruna town centre. Evening: Independent aurora observations weather permitting</p> |
| <p>Tuesday 18 Feb. 9:00 – 11:00</p> <p>12:30 – 13:30</p> <p>13:30</p> <p>15:00</p> <p>16:00</p> <p>16:30 – 17:30</p> <p>17:30 – 18:00</p> <p>21:00</p> | <p>Parkskolan, Auditorium <i>Snow exercise</i>, The exercise comprises an introduction, outdoor snowpack investigation, involving digging in the snow and concludes with a group discussion. <i>Living in a cold climate</i>, Fredrik Kjellberg Abisko excursion Chartered bus departs for Abisko from Parkskolan <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 Walk back to the tourist station Gather in the tourist station reception dressed for outdoor aurora observations (optional)</p> |
| <p>Wednesday 19 Feb. 9:30</p> <p>10:00</p> <p>10:15 – 11:15</p> <p>12:20 (recommended)</p> | <p>Abisko tourist station Room cleaning check by tourist station personnel (time to confirm) Check-out <i>Lecture: Avalanches</i>, Stefan Hedlund in conference room Konten</p> <p>Train departs from Abisko tourist station, arrives Umeå C 21:06 (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. Gabriella Stenberg Wieser, 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