



Summer / Winter Programs

2 or 4 Weeks

Antofagasta and San Pedro de Atacama

Astronomy & Geology



Atacama Immersion Chile

Atacama Immersion Chile® is an educational initiative focused on social development, integration and exchange. Through learning experiences and international cooperation, we seek to contribute to the integral formation of people, academic involvement, and links with the social and productive world.

ABOUT UCN

Universidad Católica del Norte (UCN), funded in 1956, has 60 years being one of the most remarkable universities in the North of Chile. With the aim of serving in the fields of teaching, research and extension, it was born thanks to the enthusiastic initiative of the priests of the company of Jesus, who fought with determination to realize this desire for the northern people: a University at the service of culture, sciences and development, but with full adherence to the Christian faith.



A long-exposure photograph of the night sky showing the Milky Way galaxy in vibrant colors of purple, pink, and yellow. In the foreground, several large, cylindrical astronomical observatories are visible on a dark, flat landscape. The moon is also visible in the sky. The overall scene is a clear view of the night sky from a high-altitude astronomical site.

Astronomy

Astronomical Observation in Antofagasta Region or San Pedro Atacama Desert.

A photograph of a telescope mounted on a tripod in a desert landscape at sunset. The sky is a mix of orange and purple, and the ground is dark and rocky. The telescope is the central focus of the image.

Contents of the Course

Astronomy

To provide the students with an introduction to astronomy from a modern perspective.

Module I **Introduction to Astronomy**

Astronomy in ancient times
Modern astronomy: from Galileo to 21st century
Radio astronomy and Infrared astronomy
Modern observatories

Module II **Celestial Bodies**

The Solar System
The stars, types and evolution
Star clusters
Nebulae and interstellar medium
The Milky Way

Module III **The Universe at Large Scale**

Galaxies
Active galaxies
Galaxy clusters
Big Bang Theory

** Participants do not need a student visa in order to participate in short programs*

A close-up photograph of a hand reaching upwards, with fingers slightly spread, set against a dark, starry night sky. The hand is in the foreground, and the stars are in the background, creating a sense of reaching towards the cosmos.

Contents of the Course

Astronomy

Module IV The Nature of Light

Electromagnetic waves

The electromagnetic spectrum

Wave particle duality

Module V Concepts of Observational Astronomy

Land movements and time

Astronomical coordinates

Influence of the atmosphere

Types of telescopes and their use

Module VI Field observations

Resume	2 Weeks	4 Weeks
Lectures	18 hours	36 Hours
Field Visits or Laboratory	10 hours	20 Hours
Total	28 Hours = 1 credit	56 Hours = 2 Credits

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Geology

Route

To understand the origin of volcanism in Northern Chile and the possible related hazards to the occurrences of volcanic origin.

Academic conference and Geology Museum.
Guided visit to the Geological Museum “Humberto Fuenzalida”.





Contents of the Course

Geology

To understand the origin of volcanism in Northern Chile and the possible related hazards to the occurrences of volcanic origin

Contents of the course : 7 hours each

Module I

Volcanism in the world; main related processes, types of volcanic activity

Module II

Volcanic products, types of eruptions and types of volcanic edifices

Module III

Volcanism in Northern Chile and risks related to volcanic eruptions

Module IV

Field work

Resume	2 Weeks	4 Weeks
Lectures	18 hours	36 Hours
Field Visits or Laboratory	10 hours	20 Hours
Total	28 Hours = 1 credit	56 Hours = 2 Credits

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Fields Trips





All The Programs include

- ✿ Airport pick up
- ✿ Accomodation
- ✿ Specialized lectures with UCN professors.
- ✿ Field trip in Astronomy and Geology important areas
- ✿ City tour in Antofagasta city.
- ✿ Tour to San Pedro de Atacama
- ✿ Field trip to Lascar Volcano
- ✿ All land transfers in Antofagasta and San Pedro de Atacama and field trips.
- ✿ Attendance certificate in the program.
- ✿ Souvenirs Atacama Immersion.
- ✿ UCN Coordinator in field.



Program Costs

Modalities	Includes	Meals included	Total US dollars For 2 Weeks	Total US Dollars For 4 Weeks
Complete Program	Atacama Immersion program	Breakfast	\$2,800	\$5,500
<i>Group over 10 setudents</i>	Accommodation	Lunch		
		Dinner		



How to Apply

Students must contact us sending the following documents in a PDF file:

1 Photo

Application Form

Passport

CONTACT



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www.atacamaimmersion.com

