



Summer / Winter Programs

2 or 4 Weeks

Antofagasta

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, founded 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 night-time photograph of an astronomical observatory site. The sky is dark, filled with stars and the prominent, colorful band of the Milky Way galaxy. In the foreground, there is a concrete structure with several circular openings, likely part of the observatory's infrastructure. A bright light source, possibly the moon, is visible in the sky above the structure.

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 telescope is in the foreground, and the background shows a vast, flat desert with low mountains in the distance under a soft, orange and yellow sky.

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 hand is shown from the bottom left, reaching upwards against a dark, starry night sky. The hand is in shadow, with the fingers slightly spread. The stars are small white dots of varying brightness scattered across the dark background.

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 and breakfast
- ✿ Specialized classes 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	Price
Complete Program	Atacama Immersion program	Breakfast	Programs from USD 1,600 (10 Days)
<i>Group over 10 setudents</i>	Accommodation	Lunch	
		Dinner	

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



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

