

Summer / Winter Program

**2019**

2 or 4 Weeks

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Aquaculture in Chile

Coquimbo Region

**Live Atacama**





# Atacama Immersion Chile

Atacama Immersion Chile® is an educational initiative focused on social development, integration and exchange. Through learning experiences and international collaboration, 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, funded in 1956, has 60 years being on 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.



# The Program includes

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- 🌞 Airport/city pick up
- 🌞 Atacama Immersion courses include: Aquaculture lessons
- 🌞 Professor Lectures
- 🌞 UCN Field Coordinator
- 🌞 Transports
- 🌞 Tickets to places of interest
- 🌞 Accommodation
- 🌞 Meals (breakfast, lunch, dinner)
- 🌞 Visits to aquaculture plants
- 🌞 Full day in Reserva Pinguinos de Humboldt
- 🌞 Souvenirs of Atacama Immersion



# Aquaculture in Chile

## Contents of the course

### Module I State of the art of aquaculture in Chile

- Molluscs, crustaceans, and fish cultures in Chile: brief review.
- Conceptualization of a SPA of molluscs, crustaceans, and fish. Classification. History. Life cycle.
- Components of a SPA of Molluscs, Crustaceans, and Fish
- Characteristics of a culture of molluscs, crustaceans, and fish
- Criteria for the selection of species and places for cultivation.
- Markets and product types, export, marketing

### Module II Cultivation of in-vitro animals and cultivation techniques at sea

- Crop technology for bivalves (oysters, clams, clams, mitilids, oysters) and gastropods (limpets, abalones), fish (cojinova, sole, palometa), crustaceans (river shrimp, and introduced species)
- Reproduction techniques: Reproduction biology, applied to hatchery and natural environment.
- Reproductive conditioning. Feeding and Spawning Induction Factors.
- Larval crops: supply of diets vs larval size, development of larval culture and settlement. Obtaining Seeds in a Natural and Controlled Environment.
- Phase of fattening in terrestrial and aquatic systems: Cultivation technologies in hatchery and in sea
- Crop management and control.
- Harvest: meat indices, sizes, transport, processing, product types and production line, marketing.
- Problems associated with mollusc crops: fouling and diseases, types, characteristics and treatment methodologies



# Aquaculture in Chile

Development of productive activities in aquaculture is a course where students will learn the aquaculture production system according to the requirements of one or more species of crustaceans, mollusks and fish (marine or freshwater, native or introduced), considering the stages of cultivation larval, juvenile production, fattening and maintenance of reproductive species, using engineering, technological, economic, biological and legal criteria. All this considering the sustainable development, innovation, quality and continuous improvement.

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

# Field Trip



- Polynesian Canoe Clinic
- Visit to Humboldt Penguin National Reserve
- Visit to Aquaculture plants in the region
- Visit to Punta de Choros
- Visit historical places of Coquimbo and La Serena

*\*Field trips could vary according to the group interest*



# Program Cost

Modalities	Includes	Meals included	Total US Dolars For 2 Weeks	Total US Dolars For 4 Weeks
Complete Program	Atacama Immersion program	Breakfast	\$2,800	\$5,500
<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
- Passport
- Complete the [Application Form](#)

## CONTACT



**Gabriela Saavedra**

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International Affair Office  
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# Live Atacama Immersion Chile

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[www.atacamaimmersion.com](http://www.atacamaimmersion.com)



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