

# Arctic Science Study Programme

## AUTUMN SEMESTER

During the autumn semester, Aarhus University, University of Copenhagen and Aalborg University team up with the Greenland Institute of Natural Resources to offer two semester packages with six courses on environmental contaminants, management and society. All courses are graduate level.

All the courses are taught in Nuuk and the number of participants is limited to 20 students allowing for a friendly and focused learning environment with a lot of face-to-face teaching, blended learning and excursions in the Nuuk region

To apply for the courses in the Arctic Science Study Programme (ASSP), please complete the "Student Information" form on: [www.girc.gl/education](http://www.girc.gl/education) (how to apply).

After submitting the complete form **you** will receive an e-mail with details on how to proceed with registration for the courses and other practical information. We can also help finding accommodation in Nuuk and help applying for funding to cover accommodation and travel cost.

## Environmental management and society – full semester package (30 ECTS)

This ASSP semester covers a diverse field of study including policy instruments and policy processes and the use of economics as a decision-making tool in the sustainable management of Arctic natural resources. The semester encompasses a series of courses that provide first-hand experience with economic analysis, policy processes and Environmental Impact Assessment. It also offers an opportunity to put the obtained knowledge into wider Arctic and global perspectives and experience its practical application.



## Environmental management and climate change – full semester package (30 ECTS)

This ASSP semester covers a diverse field of study including categories of pollutants, their sources from local activities as well as from transport and pathways from distant sources and their effects on Arctic wildlife, human health and the climate system. The semester encompasses a series of courses that provide first-hand experience with how the fate and effect of pollutants can be studied and how environmental damages caused by natural resource extraction can be mitigated. It also offers an opportunity to put the obtained knowledge into wider Arctic and global perspectives founded in scientific research and long-term monitoring.

Bioprocessing in the Arctic  
(5 ECTS)

Applied Economics of Arctic Natural Resources  
(10 ECTS)

Environmental governance in the Arctic  
(10 ECTS)

Mineral resources in the Arctic  
(5 ECTS)

Bioprocessing in the Arctic  
(5 ECTS)

Contaminants in the Arctic – impact on climate, health and nature  
(10 ECTS)

Contaminants in a changing Arctic – modelling impact on climate, health and nature  
(10 ECTS)

Mineral resources in the Arctic  
(5 ECTS)

### You will obtain skills in:

- Understanding environmental management in the Arctic
- Formulating relevant research questions
- Developing, outlining and presenting projects for novel bioprocessing production or new production lines using residues in the fish and shellfish industry and marine farming
- Understanding environmental aspects of the use of Arctic natural resources
- Applying economics as a decision making tool
- Analyzing and interpreting data and long time series
- Understanding how theoretical optimal resource use is moderated by the social and environmental context
- Developing Environmental Impact Assessments
- Understand policy processes within environmental governance in the Arctic
- Explaining and discussing results of analysis in a wider perspective
- Understanding how assessments and analysis results can be used in scientific advice and practical management



### You will obtain skills in:

- Understanding the effects of environmental contaminants and climate change
- Formulating relevant research questions
- Collecting and analyzing environmental samples and data
- Developing, outlining and presenting projects for novel bioprocessing production or new production lines using residues in the fish and shellfish industry and marine farming
- Evaluating and assessing health effects induced by contaminants
- Assessing environmental effects of increased human activities
- Examining how climate change affects the fate of pollutants
- Developing Environmental Impact Assessments
- Analysing and interpreting data and long time series
- Explaining and discussing data results in a larger perspective



Find more information about ASSP on:  
[www.gcrc.gl/education](http://www.gcrc.gl/education) or find us on Facebook