



## **Master's programme on Health and Wellbeing in the Circumpolar Area**

### **Partner universities:**

University of Oulu, Finland (coordinator)  
Luleå University of Technology, Sweden  
Northern State Medical University, Russia  
Pomor State Medical University, Russia  
University of Lapland, Finland  
University of Manitoba, Canada  
University of Southern Denmark, Denmark

### **Thematic connections:**

- University of the Arctic (UArctic) – the programme on Health and Wellbeing in the Circumpolar Area is the first international jointly developed Master's program under the auspices of the University of Arctic Thematic Networks (Arctic Medicine).
- International Polar Year 2007-08 – IPY Proposal of the Circumpolar Health and Wellbeing
- PhD Graduate School of Circumpolar Wellbeing, Health and Adaptation
- Research

### **Curriculum outline:**

1. Circumpolar Health and Wellbeing Package 40 ECTS (compulsory)
2. Theoretical Studies 15 – 120 ECTS (elective courses, on-site and/or on-line)
3. Applied studies 5 – 45 ECTS (elective courses, on-site and/or on-line)
4. Field placement 10-15 ECTS (optional)
5. Thesis and thesis seminars 30 ECTS (compulsory)

**Introduction seminar:**

- the programme started with introduction seminar held in January 26 – 28, 2009 in Oulu, Finland.
- 11 students have been elected to the programme: 4 Russian, 1 Finnish, 3 Canadian, 1 British, 2 Australian.
- 7 students were able to participate in the seminar at the site and 3 online most of the time regardless of the time difference.
- the students share an interest in working for the circumpolar North and many have either working or personal relations to Northern indigenous peoples or Australian aboriginal people.
- the seminar was led by Arja Rautio from the Centre for Arctic Medicine at the Thule Institute, University of Oulu and Kristina Hunter from the Department of Environment and Geography at the University of Manitoba, Canada.
- during the seminar students worked on circumpolar knowledge map and gave a presentations related to the health and wellbeing in their own area or the area of interest. In addition to the presentations seminar gave important practical information e.g. on individual learning agreements and compulsory six on-line courses (36 ECTS during two years).
- the programme continues with the first online course "Conflict, politics and ethnicity" (7,5 ECTS) organized for the programme by the Luleå University of Technology

<http://arctichealth oulu.fi/suomi/maisterikoulu.html>

### Barents Environmental Engineering Master's Programme in brief

The Barents Master's Programme in Environmental Engineering (BEE) is a two year program of 120 ECTS containing an exchange period (30-60 ECTS) in one of the participating universities. The BEE master's programme is based on environmental, process and civil engineering. The curriculum is developed and carried out in international cooperation. BEE homepage: <http://bee oulu.fi>

The full partners participating in the BEE programme are:

- University of Oulu (UOulu), Finland
- Archangelsk State Technical University (ASTU), Russia
- Murmansk State Technical University (MSTU), Russia

Associate partners in the BEE programme are:

- University of Lapland (ULapland), Finland
- Murmansk State Pedagogical University (MSPU), Russia
  - Associate partners only provide courses to the BEE programmes, ULapland through UOulu, and MSPU through MSTU

Also participating in the BEE programme are:

- Narvik University College (NUC), Norway and
- Luleå University of Technology (LTU), Sweden
  - NUC has been more active in planning the programmes and is committed to be a full partner, but neither has signed agreement to collaborate in BCBU

In September 2009, two of BEE orientations will start at UOulu:

1. Clean production
2. Water and environment
  - The call for applications is in progress (until Feb. 27), to date over 20 applications have been received
  - UOulu plans to take in 15 students in 2009, the students will start at the Department of Process and Environmental Engineering (DPEE), Faculty of Technology
  - DPEE is ready and fully committed to start the programme, collaboration in planning the programme was very smooth and fruitful between DPEE and Thule

Other orientations in planning under the BEE programme are:

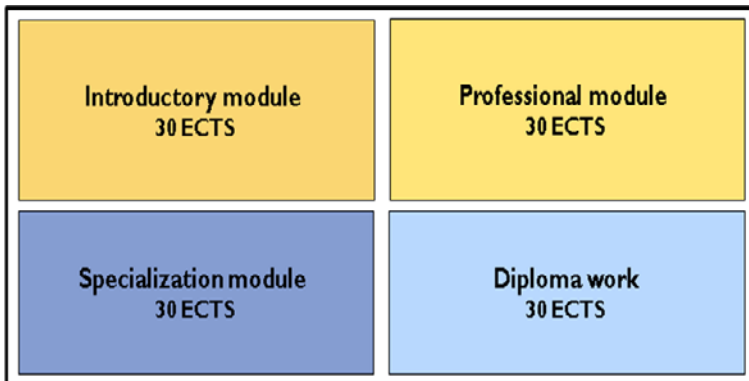
3. Sustainable energy – to start in September 2010 at UOulu & 2011 at NUC
4. Industrial ecology and rational use of natural resources – to start in 2010 or 2011 at ASTU
5. Integrated use of water resources – to start in 2012 at MSTU

The starting date of orientations 4 and 5 are subject to the progress of the Bologna process in Russia and accreditation of MSc programmes at ASTU and MSTU. As well, NUC's readiness to start the sustainable energy programme is subject to their MSc accreditation.

## Current issues in the BEE programme

- Forming a Joint Selection Committee was proposed to select students to the programme. The committee will have at least 2 members (one academic and one administrative) from all the participating and partner universities
  - We are still expecting members to be appointed from ASTU and MSTU
- We need the commitment of ASTU and MSTU that they can provide courses for those students starting at UOulu in September 2009
  - Student starting in September 2009 will need to take courses and/or go for exchange the latest in autumn 2010

## Structure of the programme



- 4 x 30 ECTS structure
- Joint courses/seminars during the first year (Introductory and Professional modules)
  - Issues relevant to the Barents region, planned and implemented in cooperation with the partner universities
- At UOulu, in the Specialization module, students can select three 10 ECTS modules from eight
- The curricula of clean production and water and environment orientations at UOulu will be accepted at the Department Council of DPEE in March 2009



## **Master's Programme in Software and Systems Development in Global Environment**

### **Status of GSD programme**

- ✓ UOulu has got the license for *Master's Programme in Software and Systems Development in Global Environment* from the MINEDU of Finland in 12/2009
- ✓ Curricula structure and plans of the courses will be ready in May 2009
- ✓ Course and teacher exchange has been started on January 2009

### **Action plan**

#### **Ongoing Course exchange:**

- ✓ Business applications in Mobile Networks, 7 cr, prof. Olli Martikainen and Valeriy Naumov, online course started in January 2009, for 7 students at PomorSU, 15 at UOulu
- ✓ Mobile Internet Service Architecture, 8 cr, Peter Antoniac, spring 2009 at PomorSU
- ✓ Doing Business with Russians, 3 cr Maria Zhuravkova, 4/2009 at UOulu
- ✓ Research Projects for student groups, 10 cr, 9/2009-12/2009
  - ✓ Summer school infrastructure (Valeriy Naumov, Aleksandr Rudalev)
  - ✓ Industrial project (including PetrSU), Kai Lindberg, contact person from PomorSU: Natalia Didkovskaja

#### **Future plans**

- ✓ Presentation and acceptance of the GSD curricula 10/2009 in Faculty of Science, University of Oulu
- ✓ Recruiting students 12/2009-2/2010
- ✓ Selection of students 3-4/2010
- ✓ Orientation and bridging studies 6-8/2010
- ✓ Starting the masters studies 9/2010

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